# PILLAR 3

# 2020

## **Disclosure report**





# PILLAR 3 DISCLOSURE REPORT BNG BANK 2020

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## INTRODUCTION

The international prudential regulatory framework for banks is based on a comprehensive set of measures developed by the Basel Committee on Banking Supervision (known as Basel III). Basel III has been implemented in the European Union through a Capital Requirements Directive (CRD) and a Capital Requirements Regulation (CRR).

The Basel framework (and thus CRD/CRR) is based upon three pillars:

- The first pillar consists of minimum capital requirements for three main categories of risk: credit risk, market risk and operational risk;
- The second pillar provides a framework for banks to review their capital (and liquidity) adequacy for both the risks identified in Pillar 1 as well as all other risks (e.g. concentration risk, strategic risk, etc.). This internal review by banks is known as the Internal Capital/ Liquidity Adequacy Assessment Process (ICAAP/ ILAAP). Supervisors independently assess these processes in their Supervisory Review and Evaluation Process (SREP);
- Finally, the third pillar aims to introduce market discipline to complement the capital and liquidity requirements from the first and second pillar. Therefore, Basel III (CRD/ CRR) contains a set of disclosure requirements which will allow market participants to have sufficient understanding of a bank's activities, the risks that are involved and the controls that are implemented to manage these risks.

This report is drafted in response to the last pillar and provides a comprehensive overview of the risk profile of BNG Bank. The main purpose of the Pillar 3 disclosure requirements is to promote the transparency of financial institutions. This contributes to a proper functioning of financial markets, improves efficiency of market discipline and helps in building trust between market participants.

# SCOPE OF DISCLOSURE (ARTICLES 431 AND 432 CRR)

The scope of the Pillar 3 disclosure is based on the policy that BNG Bank has adopted to comply with the relevant regulatory requirements. This policy describes the rationale for a Pillar 3 report, identifies the departments involved and put in place internal controls and procedures for disclosing the required information. The policy is subject to review on an annual basis.

The scope of this report includes BNG Bank's two wholly owned subsidiaries *BNG Gebiedsontwikkeling BV* and *Hypotheekfonds voor Overheidspersoneel BV*. BNG Bank aims to disclose a comprehensive overview on its risk profile by including information that is clear, meaningful, consistent and comparable. This information does not fully align with the information that is disclosed in the financial statements which is based on IFRS accounting principles. Therefore, a dedicated Pillar 3 report is published. To avoid duplication of information, cross-references are made to BNG Bank's annual report and the company website where the required information is disclosed comprehensively. Please note that a cross-reference is included only if it contributes to the legibility of the report. Where disclosure is required for information that is considered proprietary or confidential, a generic disclosure is provided.

Pillar 3 disclosure requirements are included in the regulatory prudential framework. Since the Netherlands is the main geography where BNG Bank exploits its core activities, Pillar 3 requirements are subject to European legislation. Part Eight of the Capital Requirements Directive (CRR) and the guidelines on disclosure requirements<sup>1</sup> prescribe in detail the tables and templates through which the Pillar 3 information needs to be disclosed. Changes in this regulatory framework are monitored centrally within BNG Bank. The implementation of new or amendments in regulatory requirements are assigned to the responsible line management and supported by project management if necessary.

Following the review of the latest regulatory requirements, the Pillar 3 report has been updated to comply with these requirements. The information disclosed in this report is subject to the same internal control procedures as the information published in the annual report and other regulatory reports. This report has been audited by the bank's Internal Audit Department (IAD).

This report is set-up to align with the structure of Part Eight of the European Banking Authority (EBA) guidelines and standards. The report provides a comprehensive qualitative overview on the management of risks by BNG Bank. In addition, it includes all the relevant templates for disclosing the quantitative information as required by the EBA. An overview of the Pillar 3 disclosure requirements with specific references to the relevant pages in this document is included at the end of this report.

# FREQUENCY AND MEANS OF DISCLOSURE (ARTICLES 433 AND 434 CRR)

The Pillar 3 disclosure of BNG Bank is published annually together with the publication of the annual report. Both reports are available on the website of BNG Bank.

In considering the relevant EBA guidelines on the frequency of disclosure<sup>2</sup> BNG Bank has assessed the need to publish information more frequently and concluded that an annual publication of a comprehensive Pillar 3 disclosure report is sufficient despite the designation of BNG Bank as an Other Systemically Important Institution (O-SII). BNG Bank is characterised by a stable business model with a limited range of activities and exposures. Hence, the risk profile of BNG Bank is not prone to any rapid changes. As a result, the information that generally qualifies for more frequent disclosure, does not exhibit any sudden material fluctuations. Therefore, an annual disclosure suffices.

In addition, BNG Bank publishes an interim report on its website which is audited by an external auditor. Any sudden changes in the financial position or in the markets in which BNG Bank operates will be addressed in this interim report. If these circumstances would lead to material changes in the risk profile of BNG Bank an additional disclosure of some or all the Pillar 3 requirements will be contemplated.

## **DECLARATION OF RESPONSIBILITY**

We confirm that the 2020 Pillar 3 Report has been prepared in accordance with the internal control processes as they have been agreed upon within BNG Bank. The 2020 Pillar 3 Report includes the disclosures as prescribed in Part Eight of the CRR and provides a comprehensive overview on the risk profile of BNG Bank as at year end 2020.

The 2020 Pillar 3 Report was approved by the Executive Board on 12 March 2021.

#### **Executive board**

G.J. Salden, Chair

O.J. Labe

C.A.M. van Atteveldt-Machielsen

# RISK MANAGEMENT OBJECTIVES AND POLICIES (ARTICLE 435 CRR)

#### **General information**

#### Institutional risk management approach

The process of accepting and controlling risks is inherent to the day-to-day operations of any bank. In order to conduct its operations, a bank must accept a certain level of credit, market, liquidity, operational and strategic risk. BNG Bank's risk management strategy is aimed at maintaining its safe risk profile, which is expressed in its high external credit ratings. BNG Bank's strict capitalisation policy, the restriction on services and counterparties as laid down in its Articles of Association and the fact that the bank has no trading book, determine the scope, size and sphere of the bank's risk appetite.

Risk acceptance is guided by the following principles:

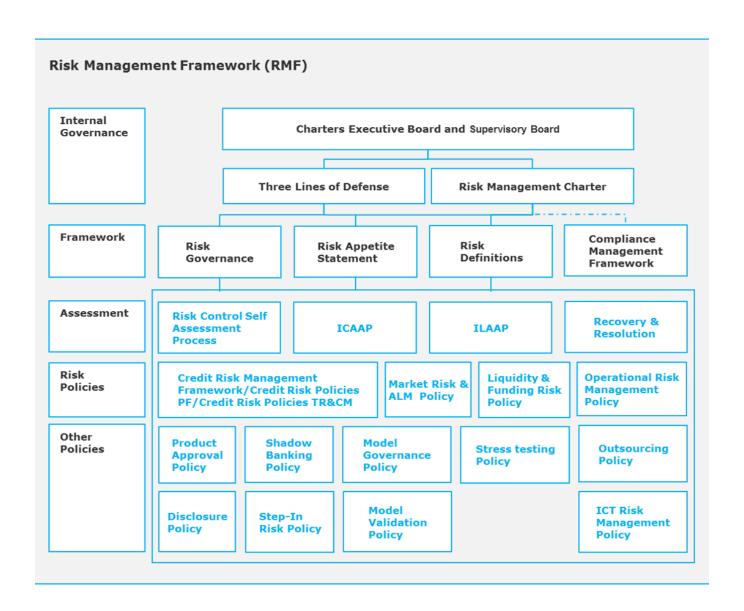
- BNG Bank aims to provide the best possible services to its stakeholders, now and in the future. The return required by its principal shareholder takes into account the strategy of the bank to maintain a prudent risk profile. This means that the required return does not result in the bank taking risks that jeopardise its ratings and funding position at a level that it would no longer be able to fulfil its long-term mission;
- In addition to a reasonable return for shareholders, highly competitive prices are a major focus. Apart from assuming the inherent risks for lending to clients, the bank is willing to selectively accept additional risks for activities that support lending to clients. These activities are considered carefully based on their risk and return characteristics. The additional return generated from these activities supports the long-term pricing strategy of the bank. To reiterate, this may not be at the expense of the external ratings and excellent funding position;
- Specific to the public sector, the largest share of the bank's lending (loans and advances) is and will be zero-risk-weighted lending. To facilitate lending at the lowest possible rates, it is essential that the bank retains its high rating and competitive funding position by imposing restrictions on non-zero-risk-weighted lending which put a limit to credit risks.

These overarching principles are decisive elements in determining the risk appetite of BNG Bank. To ensure that the risk appetite is embedded in the organisation, several sub processes are put in place.

In the following sections, an overview of the main elements of the Risk Management Framework is provided, which includes Risk Governance, Risk Appetite Statement and the management of individual risks. The requested information as described by relevant EBA guidelines on disclosure requirements is disclosed in corresponding tables and templates.

#### Risk management framework

The Internal Governance Framework (IGF) provides an overview of the internal governance that forms the foundation for all decision-taking activities within BNG Bank. In relation to risk management, the IGF describes how risk management is organised in the bank's 'Three Lines of Defense' (3LoD) model and how decisions on risk topics are structured in its Risk Management Charter. The Risk Management Framework (RMF) is an important component within the IGF. The RMF consists of a number of overarching framework documents and policies on general and specific risk related topics. The figure below, provides an overview of the RMF and the hierarchy between the different parts. The RMF identifies and defines the various types of risks, defines the risk appetite of the bank, describes the bodies involved in risk governance, sets out the roles and responsibilities, and includes the various policy documents that describe the acceptance and management of these risks. The RMF of the bank is characterised by its specific business profile that has a strong interconnectedness with the Dutch Public Sector, a low default credit risk profile as a consequence and a relatively large balance sheet. The bank has adopted a continuous risk management process that includes the following key steps: identify, assess, measure, monitor, report and steer the various types of risk.



#### Three lines of defence approach

BNG Bank is committed to developing a solid level of segregation of duties and focuses on the robust execution of risk management activities. BNG Bank has adopted the 3LoD risk management model. The 3LoD model distinguishes three groups (or lines) involved in effective internal control and risk management:

- First line, Risk Ownership Business (Core Business and Support functions);
- Second line, Risk Control Risk Management, Credit Risk Assessment, Compliance, Security, Management Control:
- Third line, Risk Assurance Internal Audit Department.

Each line of defence has a defined role in the internal control and risk management system. The model ensures that there is adequate segregation of duties between direct accountability for risk decisions (first line), independent monitoring and challenge of risk decisions within the risk management framework (second line), and independent assurance on the effectiveness of risk management, control and governance processes (third line).

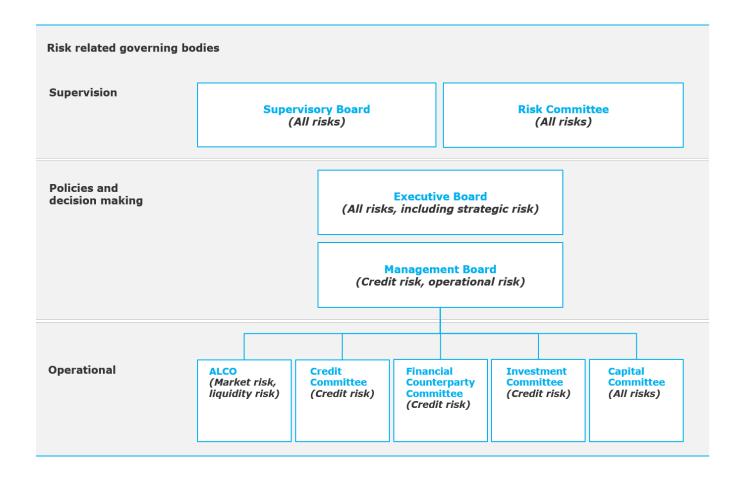
#### Risk governance

The Management Board and the Supervisory Board of BNG Bank are regularly informed about the risks and risk management. The following table provides an overview of the most important reports that the MB and SB receive, as well as their frequency.

#### **Table of reports and frequencies**

		Management	Supervisory
3LoD	Report	Board	Board
1st line	Management report business	quarterly	
	Business review	various	
	Financial report	quarterly	quarterly
	In Control statement	annually	
	ICAAP/ ILAAP	annually	annually
2nd line	Risk report	quarterly	quarterly
	Compliance report	quarterly	quarterly
	Information security report	monthly	
	Incident reporting	quarterly	annually
	Risk Control Self-Assessment outcomes	quarterly	
	Risk Appetite Statement	annually	annually
	Recovery plan	annually	annually
	Risk analysis on remuneration policy		annually
3rd line	Internal audit reports	various	quarterly
	Audit report external accountant	annually	annually
	Management letter external accountant	annually	annually

Risk management activities are integrated in all parts of the organisation of BNG Bank where key risks are being considered. The following figure provides an overview of the relevant risk governing bodies at different levels within the organisation:



BNG Bank has adopted a two-tier governance structure consisting of a Supervisory Board and an Executive Board. An up-to-date overview of the members of these Boards as well as their subcommittees is available on the website of BNG Bank<sup>3,4</sup>. Information on the number of directorships, the profiles of board members as well as their duties and responsibilities is also included there. The powers and responsibilities of the Supervisory Board, supported by the Risk Committee and the Executive Board regarding risk management are defined in their charters.

The Supervisory Board approves the Risk Appetite Statement and monitors whether the actual risk profile of the bank is within the approved risk appetite. The Executive Board is responsible for formulating the Risk Appetite Statement and navigating the bank's activities within its risk appetite through its risk committees, which manage the various risks at operational level (the operational committees). The annual report 2020 provides a comprehensive overview of the corporate structure as at the end of December 2020 and the corporate governance statement(pages 64-71 and 73)<sup>4</sup>.

- <sup>3</sup> For the <u>Article of Associations</u> of BNG Bank
- 4 For the Executive Board.

For the <u>Supervisory Board</u>.

The annual report is available at the website.

Formal risk-taking decisions on subjects with potential strategic impact as well as escalations by an operational risk committee are taken in the Executive Board meeting. The risk decisions on key business operational activities are taken by the Management Board (MB). The MB is advised by various risk committees. Since all Executive Board members are also represented in the Management Board, all decisions taken by the Management Board are therefore considered formal decisions of the Executive Board. The risk committees at operational level are chaired by a member of the Executive Board. These committees ensure the various risk-taking activities of the bank are operated in accordance with the policies and they advise the Management Board on changes in policies.

Other committees that are relevant in connection to risk management are the Audit Committee and the Remuneration Committee of the Supervisory Board.

The following departments in particular are important in supporting the Executive Board and the committees in the implementation of risk policies:

- The Risk Management department qualifies, quantifies and monitors risks, and reports to the responsible committees. These risks consist of credit risk, market risk, liquidity risk, operational risk and strategic risk. The department maintains the risk policy documents and the Risk Management Framework. Risk Management participates in the internal risk committees as well as in the Risk Committee of the Supervisory Board;
- The Credit Risk Assessment department gives advice and provides independent assessments of risks in relation to credit proposals and reviews for clients and financial counterparties. It also participates in the formulation of policies with respect to credit risk. As part of the operational lending process, it is represented in the bank's Credit Committee, the Financial Counterparties Committee and the Investment Committee. Up to 2020 this department was also responsible for the bank's Financial Restructuring and Recovery activities being the supervision, management and processing of non-performing loans and advances as well as other exposures in the loan portfolio where the bank perceives a strong increase of credit risk. Starting in 2021, Financial Restructuring and Recovery will become an independent first line department;
- The Compliance department engages in issues related to conduct and integrity. The duties, position and authorities of the compliance function are stated in the BNG Bank Compliance Charter. The Compliance Officer reports to the Chief Risk Officer and has a direct reporting line to the Supervisory Board;
- Security provides support to the Management Board and line management in order to safeguard the reliability and continuity of the business processes. Its role is also to ensure security risks are in control. Security is involved in projects from a security perspective. The Information Security Officer is positioned in the Processing directorate, with a direct reporting line to the Chief Risk Officer as well as the Management Board in order to safeguard its second line function;
- The Internal Audit Department (IAD) periodically conducts operational audits in order to evaluate the structure and performance of the bank's risk management systems as well as to assess compliance with the applicable legislation. The IAD functions as an independent entity within the bank and reports to the Executive Board. The IAD also has a direct reporting line to the Supervisory Board and is present at the meetings of the Audit Committee and the Risk Committee of the Supervisory Board.

#### **Risk appetite**

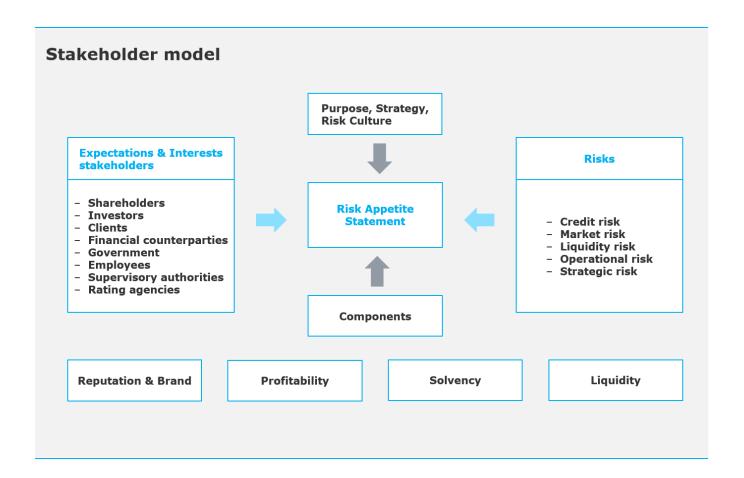
The Risk Appetite Framework (RAF) is an important part of the RMF. This framework covers policies, processes, controls and systems through which risk appetite is established, communicated and monitored. In addition, it includes a Risk Appetite Statement (RAS), risk limits, and an outline of the roles and responsibilities of those overseeing the implementation and monitoring of the RAF. This framework considers material risks to the financial institution as well as to the institution's reputation vis-à-vis policyholders, depositors, investors and customers. The RAF aligns with the institution's strategy.

The risk appetite is evaluated annually to ensure continuous alignment with the purpose and strategic spearheads of BNG Bank:



The extent to which BNG Bank is able and willing to assume risks is directly linked to the above. In order to be able to execute its strategy and offer its services and solutions, the bank assumes risks that are inherent in running a banking business. In order to be able to offer the lowest possible prices, the bank is also willing to assume risks voluntarily and in a controlled manner, aiming for additional returns. The competitive funding position that is necessary to provide clients with good and inexpensive access to the money and capital markets is based on BNG Bank's excellent risk profile and its rating. BNG Bank's ambition is to maintain its rating at the same level as that of the Dutch State. A reasonable return for our stakeholders is one condition to preserve the status of state participation. In order to fulfil the condition of an excellent risk profile the bank imposes limitations on the risks that are taken to realise its targets. The condition of an optimized organisation requires a framework for the scope and the quality of the operational processes, the staffing levels for those processes and the associated costs. Part of this framework is formulating the risk tolerance for operational risks.

Each year, the bank prepares the RAS, which sets out the types and the level of risk that the bank is willing to accept – decided in advance and within its risk capacity – in order to achieve its strategic objectives and business plan. The bank needs to ensure that the risk appetite stays within its risk capacity given its capital base, risk management and control capabilities and its regulatory constraints. When fulfilling its mission and executing its strategy, the bank balances the expectations and the interests of its stakeholders. To facilitate this, a stakeholder model is used, as represented in the following figure.



BNG Bank recognises both financial risks in the form of credit risk, market risk and liquidity risk, as well as non-financial risks in the form of operational risk and strategic risk. In addition, several components are defined that represent the financial health of the bank's operations which are being considered in the development of the risk appetite. The components (1) Profitability, (2) Solvency and (3) Liquidity are commonly used for assessing the overall financial health of a bank. Hence, these are considered to be key determinants in the risk profile of a bank. In addition, BNG Bank has included (4) Reputation and Brand in this model. As a triple A rated bank, BNG Bank places great value on an impeccable reputation.

#### **Reputation & Brand**

BNG Bank aims to retain the perception of its stakeholders on the bank as a quasi-public-sector body with excellent creditworthiness as well as a fine reputation and integrity profile. The bank also wants to retain its status as a promotional bank. The bank is not willing to assume any risks of which may reasonably be presumed that the risk can harm its integrity and/or reputation. This means for example that BNG Bank poses strict tolerance levels for integrity risk. BNG Bank aims to exercise due care in the provision of services and to observe a duty of care towards its clients, and endeavours to provide tailored products and services at competitive rates.

#### **Profitability**

BNG Bank aims to minimise borrowing rates for the public sector and hence does not seek to maximise profits. For its shareholders, the bank's objective is to achieve a reasonable return. Relative stability of the annual results is also important to different stakeholders, including regulatory authorities and rating agencies. 'Relative' in this context refers to a maximum percentage of deviation relative to the previous annual result.

#### Solvency

BNG Bank must comply with capital requirements. There must be a very high degree of probability that the amount of capital is sufficient to absorb unexpected losses, in the interest of safeguarding the continuity of the bank's business operations. A strong capital position is the basis for low funding rates. The credit ratings issued by rating agencies are largely based on the solvency position, supplemented with the public ownership that is perceived as an implicit state guarantee.

#### Liquidity

BNG Bank intends to maintain a lasting and stable presence in the chosen market segments in the Dutch public sector, and continue to meet the demand for lending even in times of stress. It also aims for a prudent liquidity position, with due regard for the principles that it is always able to meet its short-term obligations and that it also adequately mitigates its refinancing risk. In this context, continuous access to funding is crucial and hence continuous maintenance of an attractive, varied issuance programme of sufficient volume for investors is a prerequisite. In addition, it is important to have sufficient collateral pledged with the ECB in order to ensure that short-term funding can be raised with the ECB in times of need.

As a result of the foregoing, the bank is prepared to accept the following risks.

#### **Credit risk**

- Counterparty (default) risk from clients associated with non-zero-risk-weighted lending. These are mainly clients from the public sector that are covered by the bank's purpose and Articles of Association.
- Counterparty risks in relation to financial counterparties resulting from activities that support Asset and Liability Management.
- Concentration risk in relation to the Dutch public sector is considered inherent in the business model. A sizeable part of the associated exposure relates to public-sector real estate. This risk is to a large extent mitigated by the guarantee funds in the Social Housing sector and Healthcare sector with a residual risk exposure for the bank to the Dutch State.
- Investments that support lending to clients.
- Non-zero-risk-weighted loans and investments are only assumed in a ratio appropriate for a promotional bank and provided that they do not jeopardise the bank's mission.

#### Market risk

- BNG Bank hedges the interest rate risks arising from lending (loans and advances) and borrowing. However, the bank is willing to accept a certain degree of interest rate risk. While a certain maturity mismatch related to the bank's capital base is a common source of income for banks, BNG Bank strives to achieve additional return through an active interest rate position policy. With regard to tenor basis risk, the bank accepts a limited position arising from regular funding and lending.
- Optionality is only accepted where explicitly permitted by risk policies or product approval documents and is usually hedged by policy, unless an open position is explicitly permitted by risk policies or product approval documents.
- The bank accepts the risk to earnings and capital caused by unfavourable spread fluctuations, under the condition that this risk is explicitly covered by a sufficient amount of allocated capital.
- -The bank hedges the risk arising from changes in the value of financial instruments that can result from the change in an index.

BNG Bank is not willing to assume any open exposures to foreign exchange risk. Foreign exchange risks are therefore hedged, including FX basis risk. Furthermore, BNG Bank has no trading book and consequently does not assume any market risk resulting from trading portfolios.

#### Liquidity risk

- To be able to meet payment obligations at all times, short-term liquidity risks are only accepted if they are matched by sufficient liquidity buffers capable of meeting these short-term obligations. To manage short-term liquidity risk and to be able to meet payment obligations at all times, BNG Bank has prudent liquidity limits and a significant liquidity buffer in place.
- -The public sector consists largely of institutions with a long-term investment horizon. This means that loans frequently have long maturities, up to decades. As BNG Bank is unable to raise funding for these maturities, a funding mismatch is accepted, provided that there are sufficient buffers to be able to refinance at acceptable cost, with a high degree of probability even in times of stress. The bank is also willing to accept the refinancing risk arising from the liquidity requirement related to activities other than lending to its clients, as is the case with investments. However, the ensuing additional liquidity requirement must not jeopardise the bank's mission.

#### **Operational** risk

- Operational risk is inherent in operating a business. BNG Bank accepts that providing tailored services entails additional inherent operational risks. These are risks that are not inherent in the bank's standard products.
- Mitigating alternatives for operational risks are chosen by weighing the costs against the economic benefits, except in case of compliance with legal and regulatory requirements as well as integrity, where the risks are minimised.
- In addition to lending, BNG Bank also provides its clients with other products, such as current account and payment transaction services. Clients benefit from this broader range of services, which also promotes client loyalty to the bank. Within its risk appetite, the bank is willing to accept operational risks also for these additional products.

#### Strategic risk

For strategic risk, it is more difficult to determine the extent to which risks are assumed, since they are driven by external factors in particular and are therefore less easily influenced. However, the bank needs to address the risks that emerge from changes in its environment. Given its close ties to the Dutch public sector, its sensitivity to government policy and its status as a promotional bank, political risk and regulatory risk are important

elements. To monitor and mitigate these risks, the bank is permanently in close contact with its stakeholders. In addition, it observes and analyses the regulatory processes, and it participates in several banking associations.

To remain relevant, it is essential for the bank to be responsive to new economic and social developments. New initiatives are being developed to reposition itself as a partner serving the public sector. As of 2021 the bank targets four Social Development Goals (SDG's) and one of which (Sustainability) is manifested in one of the three core values of the bank.

BNG Banks will focus even more on building client partnerships to become a partner that actively contributes to the resolution of social challenges our clients have to cope with. Although the bank is aware that it cannot fulfil all demand by itself. This strategic challenge/risk is assumed since the bank believes it will be able to fulfil this commitment in the medium to long term.

In addition, ECB and EBA have published supervisory expectations and are preparing legislative changes regarding climate related and environmental risks. These impact BNG Bank's strategy- and risk management processes, internal governance and capital assessments.

#### Risk appetite cycle and monitoring

On an annual basis, the Risk Appetite Statement is updated based on external and internal developments. It is subsequently cascaded into limits, targets and ratios for the various types of risks. These are subject to a monitoring programme to determine each quarter whether the bank is within the limits of its risk appetite. The outcomes are reported to the Management Board and Supervisory Board as part of the quarterly Risk Report. The Risk Report provides aggregated information derived from figures that are used for daily limit monitoring and reporting to the various risk committees. As a result, the information conveyed to the Management Board and the Supervisory Board is in line with the information used in the operational processes. Finally, further examples of tools to monitor compliance with the risk appetite of the bank are the yearly In Control Statements by senior management as well as the reports by internal and external auditors.

In 2020, the bank continued to operate within its risk appetite and there were no major limit breaches. With regard to capital, the bank satisfied legally binding supervisory requirements as well its additional internal capital targets. With regard to operational risk, the bank remained within the internal norms for operational incidents. For strategic risk, the bank increased focus on strategic planning and execution in the fields of digitisation, disintermediation and sourcing.

#### **Compliance Management Framework**

For a bank it is of utmost importance to have a solid and trustworthy reputation. Applicable laws and regulations have increased by number and are more often of a complex nature. Furthermore, the requirement of a demonstrable compliance has grown of importance. Therefore an effective and efficient framework is needed to manage compliance risks.

BNG Bank manages these risks with a Compliance Management Framework (CMF), another important internal control related framework within the Internal Governance Framework (IGF) of BNG Bank. The CMF aligns to the main principles of the RMF that include risk categories and definitions, risk appetite and the risk management cycle.

Compliance with applicable laws and regulations is classified into four main categories, as follows:

1. Prudential - regulations that relate to the solidity of the bank in order to safeguard the financial stability;

- 2. Financial markets regulations that focus on financial markets processes, relations between market parties and services to clients;
- 3. Other regulations that are not part of the prudential or financial markets category;
- 4. Integrity regulations that focus on integrity related topics.

Adequate execution of the CMF ensures that the compliance risk is in control which contributes to controlling reputational risk. In addition, the CMF generates early alerts with information on regulatory changes relevant for assessing potential impact on, for example, strategy, commercial activities and asset and liability management.

#### **Credit risk**

#### **Definitions**

Credit risk is defined as the risk of losses in earnings or capital resulting from the potential risk that a borrower or a counterparty will fail to meet its obligations in accordance with agreed terms. It includes counterparty risk, settlement risk and concentration risk:

- Counterparty risk the risk of losses to earnings and capital arising from a party failing to make payments that result from a financial transaction, at the moment those payments are due;
- migration risk is considered to be part of counterparty risk. BNG has defined migration risk as the risk that rating migrations increase the average default probability of the portfolio.
- Settlement risk the risk of losses to earnings and capital arising from a party failing to comply with the conditions of a contract (or a group of contracts) with another party at the time of settlement;
- Concentration risk the risk that additional credit losses are realised due to the exposure of outstanding credit to a common driver.

#### Governance

BNG Bank has an internal risk management organisation that serves to control its credit risks. This organisation is in line with the diversity and complexity of the bank's lending activities, and is structured as follows:

- The Executive Board determines the relevant lending parameters and policies, facilitated by the Management Board.
- The Credit Committee or the Head of Credit Risk Assessment decides on accepting or declining credit risk in connection to loans and advances.
- The Financial Counterparties Committee decides on acceptance of financial counterparties as well as monitoring and managing risks in relation to transactions with financial institutions.
- The Capital Committee advises on policies regarding the capitalisation of credit risk and stress testing. It also advises on the implementation of new (relevant) regulations.
- The Investment Committee decides on proposals for investment in interest-bearing securities.

The Credit Risk Assessment department (on individual client level) and the Risk Management department (on portfolio level) share second line responsibility for assessing, quantifying, monitoring and reporting credit risk. These departments operate independently from the Public Finance and Treasury directorates, which are the risk owners and which have first line responsibilities for credit risk. The Risk Management department is responsible for the development and maintenance of all Credit Risk policies.

#### **Developments**

The COVID-19 pandemic has not resulted in additional individual impairments, compared to 2019. Overall, no significantly more defaults are observed in 2020. The impact of the COVID-19 pandemic is more severe in some market segments compared to other segments that BNG Bank is active in:

- The financial position of municipalities, has worsened due to the COVID-19 pandemic. In 2020 the Dutch central government has provided several compensation packages which relate to 'real costs', taking away the immediate financial impact. Nevertheless, municipalities have postponed investments and face deficits in the social domain. However, there is no reason to doubt that further help will be provided by the central government if necessary, thus protecting the credit quality of the municipalities;

- The healthcare sector is affected by increased cost of staffing. Non-emergency care had to be scaled down during the COVID-19 pandemic, leading to a decrease in both income and costs for regular care. The final impact of COVID-19 on the financial position in this sector is unclear. It is uncertain if the additional funding by health insurers will be sufficient and how it will work out for each individual institution. In addition, nursing homes are confronted with increasing costs for both avoidance of COVID-19 infections and the treatment of patients. The financial situation of the mental healthcare institutions is also under stress. Not only it is complicated because revenues come from several sources, also expense claims for digital consults are hindered by regulations for these claims. An external safety net, initiated by the sector, including liquidity support and income compensation is under construction;
- The slowdown of economic activity and trade has major consequences for transport related clients. They remain operational, despite limited revenue flows in combination with high fixed costs. Public transportation has significantly decreased but this sector is largely supported by the central government. The aviation sector will make major cost cuts and many investments will be suspended. The negative economic impact of COVID-19 is also being felt by Dutch ports and on average throughput volumes during 2020 were considerably lower than in 2019;
- The housing sector incurs a limited negative impact due to delays in rental income and delays in the construction of new social housing projects.
- The energy sector is only slightly affected by COVID-19.

BNG Bank participated in a moratorium initiative by the Dutch Banks, providing payment holidays for loans limited to EUR 2.5 million. Only a small amount of clients applied under this moratorium and 27 applications were granted for a total amount of EUR 12.1 million This amount related entirely to zero-risk-weighted exposures from small foundations and associations that received loans under a guarantee from a local government. With the exception of one client all repayments have been fulfilled.

The bank still holds substantial impairments related to two credit files that are managed by the Credit Risk Assessment department.

In the course of 2020, the credit risk assessment framework for zero risk-weighted lending was extended. The credit risk policy was adapted to reflect this. The bank continues to enhance its Probability of Default (PD) models in line with the relevant rules and regulations. Options to enhance monitoring and maintenance of the PD models will be further explored in 2021.

Brexit is expected to have a limited impact on the business model of BNG Bank. On the asset side, the bank's exposures are limited to a small number of public-sector exposures of investment-grade quality. In addition, BNG Bank does not provide any material cross-border services in the United Kingdom (UK). However, the business volume with financial counterparties is substantial, given the bank's policy to hedge market risks on both sides of the balance sheet with derivatives. The bank has prepared itself for Brexit by onboarding European entities, for both its hedging and clearing activities.

#### **Counterparty risk**

The bank is exposed to counterparty risk in relation to public-sector entities (loans and advances), financial counterparties (derivatives) and issuers of Interest-Bearing Securities (IBS) in which the bank has invested. BNG Bank applies the following credit risk mitigation measures:

- Guarantees received from a central or local authority or by the guarantee funds WSW (Social Housing) and WfZ (Healthcare). Because non-zero risk-weighted loans are often extended under partial of full guarantees or

suretyships, the loan remains partly or fully zero risk-weighted on balance for BNG Bank (see the section on statutory market parties).

- Other forms of security such as pledges and mortgages are used to minimise possible losses due to credit risks. The potential risk-reducing effect, however, is not applied in the calculation of the regulatory capital requirement.
- Bilateral netting and collateral agreements based on a daily collateral exchange with financial counterparties, see also the section on financial counterparties.

#### **Statutory market parties**

The bank's Articles of Association restrict lending to parties subject to some form of government involvement. As a result, the credit portfolio is largely comprised of zero risk-weighted loans and advances provided to or guaranteed by the Dutch government. Given the regulatory developments, the bank is merging the credit processes for risk-weighted and zero risk-weighted loans.

All clients are subject to an assessment of creditworthiness whereby an estimate of the credit risk is made based on financial and non-financial drivers using the bank's own internal methodologies. With regards to zero weighted loans, even though the expected loss remains zero, the outcome could have impact on the intensity of monitoring depending on the risk profile.

In addition, the bank has an internal risk assessment process for tailored transactions that includes the assessment of operational risk elements. Moreover, the bank uses extensive qualitative product descriptions, in which the appropriateness of the product for different types of clients is made explicit. The bank is also in the process of enhancing sector specific policy papers which detail the risk appetite of the bank in various market segments.

The Credit Risk Assessment department prepares an independent second opinion on the credit proposal. The intensity of the decision-making process is determined on the basis of the proposed internal rating, or the score resulting from the assessment, and the size of the loan. The bank's risk appetite also determines the level of maximum credit risk that the bank is prepared to accept for a client with a certain internal rating or score. The credit proposal must be in accordance with this maximum risk. Depending on the size of the exposure and the risk profile, either the Head of Credit Risk Assessment or the Credit Committee decides whether the risk can be accepted. The Credit Committee is chaired by a member of the Executive Board, and it includes representation from the Public Finance directorate, the Credit Risk Assessment department and – where applicable – the Treasury department. If the Credit Committee is unable to reach an unanimous decision, the proposal is escalated to the Executive Board. A delegation model applies to loans and advances of limited scale or risk, in which the authority to make decisions lies with the Head of Credit Risk Assessment.

Following the approval of a credit proposal and the acceptance of the offer by the client, the credit management process starts. This includes the following elements:

- The file is completed with relevant documentation by the Public Finance Teams;
- The Public Finance Teams are responsible for file management, including the monitoring of securities and covenants:
- -The creditworthiness is reviewed at least once a year. This involves an update of the internal rating or score. The Credit Committee evaluates these reviews. A delegation model applies here as well. Loans and advances whose credit quality (rating or score) has fallen below a specific level are subject to increased management scrutiny and, if necessary, are transferred to the Financial Restructuring and Recovery department.

BNG Bank actively follows the developments within the market segments in which it operates. This also applies to the operation of the institutions issuing the individual guarantees or suretyships. In addition, BNG Bank maintains contacts with relevant parties through a variety of channels, including conferences, seminars and bilateral meetings.

#### Credit risk models

Most of BNG Bank's clients are not rated by external rating agencies, such as Moody's, Fitch or S&P. The bank applies internally developed rating models to asses creditworthiness of clients. These expert models are market segment specific and subject to periodic review and validation in accordance with the bank's model governance policy. These models are not applied for capital calculations under Pillar I, where the bank uses the Standardised approach. Internal rating models are in use for the following market segments:

- Social housing;
- Healthcare;
- Education:
- DBFMO (Design Build Finance Maintain Operate, project financing);
- Area development;
- Networks, energy, mobility and the environment;

The significance of the internal ratings is the same for all models. A scorecard is applicable for Municipalities, Provinces, Waterboards, Communal Arrangements ('Gemeenschappelijke Regelingen).

Internal rating	Description
1 through 11	The credit risk is deemed acceptable. A regular annual review is performed.
12 through 13	Watch list: there is an increased credit risk. A review takes place at least twice a year.
14 through 17	Financial Recovery & Restructuring: there is an increased credit risk. At least three times a year, a report on these
	debtors is submitted to the Executive Board.
18 through 19	Financial Recovery & Restructuring: there is an increased credit risk and/or the debtor repeatedly fails to fulfil
	the payment obligations and/or there is no expectation of continuity. At least three times a year, a report on these
	debtors is submitted to the Executive Board.

The below table provides an overview of the distribution of the loan portfolio across those ratings. More quantitative details on the credit risk profile and the credit quality are included in the section on credit risk and credit risk mitigation.

31-12-2020 31-12-2019

Loans and advances	Exposure to loans and advances and off-balance, excluding incurred loss provision	% of total	Exposure to loans and advances and off-balance, excluding incurred loss provision	% of total
Zero-risk-weighted	88,359	87.80%	86,681	86.95%
Non-zero-risk-weighted				
Internal rating:				
- 1 through 11	11,269	11.20%	11,780	11.82%
- 12 through 13	551	0.55%	503	0.50%
- 14 through 17	175	0.17%	431	0.43%
- 18 through 19	283	0.28%	290	0.29%
	12,278	12.20%	13,004	13.05%
Total	100,637	100.00%	99,685	100.00%

#### **External rating**

BNG Bank uses the external ratings awarded by rating agencies, specifically S&P, Moody's, Fitch and DBRS. In determining the capital requirement, the bank uses the ratings of these four agencies if such ratings are available. The ratings relate either to a counterparty or specifically to a specific security.

#### **Financial counterparties**

The market risks associated with loans to clients are mitigated primarily through derivative transactions with financial counterparties. The bank only conducts business with financial counterparties that have been rated by an external agency. Financial counterparties are periodically assessed for creditworthiness. If necessary, the limit on the maximum exposure to such a counterparty is re-adjusted accordingly.

In order to reduce credit risk, netting agreements are in place with financial counterparties with which BNG Bank actively enters into derivatives transactions. In addition, collateral agreements are concluded. These ensure that market value developments are mitigated on a daily basis by collateral. The agreements are updated where necessary in response to changing market circumstances, market practises and regulatory changes.

#### Investments in interest-bearing securities

BNG Bank's Interest-Bearing Securities (IBS) portfolio is held primarily for liquidity management purposes. The portfolio is composed of high-quality bonds, the majority of which are accepted as collateral by the central bank. BNG Bank's total IBS portfolio can be subdivided into a Liquidity portfolio and an Asset & Liability Management (ALM) portfolio. The Liquidity portfolio consists exclusively of highly negotiable securities and is subdivided according to the various Liquidity Coverage Ratio (LCR) levels. The ALM portfolio is subdivided according to the type of security. Each month, the development of the portfolio is reported to and evaluated by the Investment Committee. Using factors such as external ratings and – in part – internal ratings, the bank monitors the development on an individual basis. The securities qualifying under the liquidity coverage requirement are subjected to a due diligence review process. The assets within these portfolios undergo an impairment analysis twice a year.

#### **Concentration risk**

Regarding concentration risk, the bank differentiates between:

- country risk, with a distinction between domestic and foreign risk;
- sector risk:
- risk for individual parties, with a distinction between clients and financial counterparties.

Most of the bank's credit risk for zero-risk-weighted lending is concentrated on the Dutch government. For non-zero-risk-weighted lending, further concentrations exist in the market segments that are serviced by the bank, e.g. university hospitals. Almost all non-zero risk-weighted exposures to public-sector entities are secured by means of collateral or other securities. The other risk weighted exposures relate to financial institutions. Regarding concentration risk, four (2019: six)<sup>5</sup> of these financial institutions each represent an exposure of more than 10% of the Tier 1 capital.

#### **Domestic country risk**

A considerable degree of concentration risk on the Netherlands is inherent to BNG Bank's focus on the Dutch public sector. A considerable portion of the total exposure is indirectly related to public-sector property. However, these risks are generally mitigated by government guarantees on lending as well as by the WSW and WfZ

guarantee funds. These guarantees result in a concentration risk in relation to public authorities and guarantee funds. The guarantee funds are guaranteed by the central government via backstop constructions. The ultimate risk on the balance sheet is therefore a risk in relation to the Dutch State. The concentration of this risk is high, but it is inextricably linked to BNG Bank's business model.

#### Foreign country risk

The bank is exposed to foreign country risk as a result of transactions with financial counterparties to hedge market risks arising from lending and funding activities, as a result of its liquidity portfolio, and – to a limited extent – in the context of lending and investments in the public sector abroad. The bank invests in foreign securities for its liquidity portfolio, because the vast majority of its loan portfolio already relates to the Netherlands. Foreign lending is in most cases directly or indirectly guaranteed by the relevant governments.

All foreign exposures fall within limits set for each country. These limits mainly depend on the perceived credit quality of the country in question. Moreover, a general limit of 15% of the balance sheet total applies to foreign exposures excluding derivatives and collateral. At the end of 2020, the bank's long term foreign exposure (expressed in balance sheet value) totalled EUR 10.6 billion exposures (2019: EUR 9.9 billion). This represents 6.6% of the balance sheet total (2019: 6.6%).

#### **Sector risk**

Sector-specific policies and internal targets are used for lending without direct or indirect guarantees from the Dutch State. These sector targets relate to both maximum concentrations on the balance sheet and new transactions according to the bank's Annual Plan. Active portfolio management is positioned within the Public Finance department. Realisation of the risk targets is reported to the Management Board on a quarterly basis by Risk Management. The concentration risk per sector is also part of the Risk Management economic capital model used to assess the capital adequacy allocation.

#### Individual statutory market parties

For non-zero-risk-weighted parties, the exposures have to adhere to the Large Exposure Regulation under the CRR. The bank has adopted a more conservative approach regarding the maximum size of individual exposures. This further limitation takes into account the degree to which sectors are anchored in the public sector. The party's individual rating is a further criterion for limit-setting.

#### **Individual financial counterparties**

Transactions with financial counterparties primarily consist of interest rate and currency swaps undertaken to mitigate market risks. BNG Bank sets requirements for the minimum ratings of the financial counterparties with which it is willing to transact, taking into account the nature of the business conducted with that party. This limits the number of available parties and as a consequence, the number of transactions with approved parties is high. Daily exchange of collateral mitigates the credit risk with respect to derivatives. A bankruptcy of a counterparty would result in market risks, as the market is subject to fluctuations while the derivatives need to be rearranged with another party. The Financial Counterparties Committee sets limits and monitors positions with financial counterparties. BNG Bank clears parts of its derivatives centrally via London Clearing House through five clearing members which are all based in the UK. In preparation for Brexit, the bank has previously set-up arrangements with EU-based clearing members. Central clearing has inevitably resulted in a shift in concentration risk from individual financial counterparties to the clearing members and the clearing houses.

#### **Settlement risk**

Exposure to settlement risk is limited to transactions with financial counterparties. Settlement risk is potentially high for those parties because of the relatively large size of the bank's benchmark issues in foreign currencies. Netting and collateral agreements concluded with those parties serve to limit settlement risk resulting from the mutual offsetting of payments. Settlements with certain counterparties are distributed over time to prevent unnecessary concentrations at one point in time. Control measures throughout the operational process serve to mitigate the settlement risk further. The Bank Recovery and Resolution Directive (BRRD) offers protection for settlement and payment systems in the European Union (EU) in case of the resolution of a bank, effectively reducing the settlement risk in parts of the financial system. Capital allocation for settlement risk is based on an assessment of the likelihood of a possible loss from settlement risk and is updated on an annual basis as part of the ICAAP process.

#### Market risk

#### **Definitions**

Market risk is defined as an existing or future threat to the institution's capital and earnings as a result of market price fluctuations. Several sub risks can be distinguished within market risk:

- Interest rate risk the risk of losses to earnings and capital arising from adverse movements in interest rates ('outright risk'), basis tenor rates, overnight indexed swap rates and the cross-currency basis spreads;
- Foreign exchange risk the risk of losses to earnings and capital arising from unfavourable exchange rate fluctuations;
- Volatility risk the risk of losses to earnings and capital arising from adverse movements in the implied volatility of market interest rates or currencies. This risk only applies to products with types of optionality, such as caps and floors:
- Spread risk the risk of losses to earnings and capital arising from unfavourable credit risk spread fluctuations, Credit/ Debit Value Adjustments (CVA/DVA) and index fluctuation (for example, the inflation index).

#### Governance

The Treasury and Capital Markets directorate is the 'first line of defence' and is responsible for day-to-day market risk management, primarily for managing market risks resulting from commercial activities.

Risk Management is the 'second line of defence' and is tasked to monitor the market risk independently. It performs checks on a daily basis to ensure the risk positions are within the limits set by the Asset & Liability Committee (ALCO). The department independently prepares reports for the ALCO and Treasury, challenges the first line and provides risks analysis and advice, both proactively and upon request. Risk Management periodically updates the assumptions used, maintains the set of policies, frameworks, procedures and reporting, and incorporates new regulations in their revision. By participating in the product approval process, it also plays an important role in identifying and assessing (new) market risks caused by new activities.

The ALCO advises the Executive Board regarding market risk policy and limit adjustments and is responsible for decision taking within the boundaries set in the policy. The ALCO consists of the CFO (Chair), CRO, the Managing Director of Treasury and Capital Markets, the Head of Risk Management and the Senior Economist and is, depending on the agenda, supplemented with other participants.

#### **Developments**

In the first quarter of 2020, the COVID-19 pandemic had a severe impact on the valuation of assets and liabilities due to increased spreads. However the impact on P&L or capital was limited, as the balance sheet comprises mainly instruments that are treated on an amortised cost basis. During the remainder of 2020, markets calmed down for a large part due to significant stimulus from central banks, leading to a decrease in spreads (including funding spreads). As of end 2020 spreads were at levels, that were comparable to those at the start of 2020. Other than that, the COVID-19 pandemic had limited impact in the area of market risk.

Furthermore, the bank continued to make extensive preparations for the Inter Bank Offered Rates (IBOR) transition. The transition progressed according to plan, where the transition in discounting from EONIA to €STR for central clearing counterparties (CCPs) has been implemented successfully in 2020. In 2021, BNG Bank

prepares itself further for discounting from EONIA to €STR for bilateral financial counterparties. Moreover, BNG Bank is preparing for a possible termination of EURIBOR. This will require significant efforts in 2021.

#### Interest rate risk

#### **Framework**

The bank's most important interest rate risk is the 'outright risk' to the interest rate swap curve, which is determined excluding the impact of spreads. This means that changes in spreads such as credit spreads, CVA/DVA and cross-currency basis spreads do not influence the interest rate risk position and hedging. There is no material presence of early redemption options in BNG Bank's regular loan portfolio. Likewise, there is no material exposure in mortgages and the bank does not attract savings from private individuals. Consequently, client behaviour is not modelled in the bank's interest rate risk models.

The interest rate position in the banking book is internally managed in the books for Treasury and the ALCO respectively. The interest rate risk within the margin books (containing the lending and funding activities) and the ALCO book (containing the active interest rate position) are transferred to the Treasury book using internal swaps. The net interest rate risk in the Treasury book is hedged with external parties using derivatives<sup>6</sup>.

The bank applies stress testing, in which the impact of the interest rate position is assessed based on multiple types of interest rate shocks (parallel and non-parallel) and from various perspectives (i.e. economic value, Earnings at Risk, tenor basis risk and the normative perspective).

#### Risk measures and limits

Working on the basis of market forecasts from the Treasury and Capital Markets directorate as well as the Economic Research department, the ALCO periodically determines the bank's interest rate outlook, and defines – within the predetermined boundaries – the interest rate position within which the Treasury and Capital Markets directorate must operate:

- The ALCO defines the active interest rate position by means of a target delta for each maturity interval in the ALCO book. In addition, the Treasury department has a mandate to hold an unhedged interest rate risk position within pre-defined limits;
- Economic value limits for the ALCO and Treasury book are set for the total delta and for the interest rate stress-testing outcomes. The latter is calculated for several internal parallel and non-parallel interest rate shocks, and is compared on a daily basis to the capital allocated for interest rate risk. In addition, early warning levels are set for the internal Earnings at Risk scenarios such that a balance is sought between the economic value and the earnings perspective;
- The bank also sees to it that the outlier criterion is not exceeded, by applying an internal threshold value which serves as an early warning. The outlier criterion is prescribed by the Basel regulations, where it is used to express the maximum relationship between market risk and equity. The outlier criterion is a sensitivity analysis in which the interest rate risk is measured under six prescribed shocks, among which the instantaneous plus or minus 200 basis points parallel shock;
- Early warnings are set for tenor basis risk measures, which are connected to the capital allocated for this risk;
- In case of cross-currency swaps, the cross-currency basis spread risk is monitored on a daily basis. This risk is not limited, since the contracts are deemed to be held until maturity. Although in case of fluctuations regulatory capital may be affected through "cost of hedging", the effect is not expected to materialise.

the accounting treatment of derivatives and hedged items in the balance sheet and income statement is such that they are aligned as much as possible with the actual economic hedging. details on that accounting treatment are included in the annual report (pp. 117 and 118).

All these interest rate risk measures complement each other, and they ensure the transparency and manageability of risks.

Any breach of a limit must be reported to the ALCO. The ALCO decides whether action should be taken immediately in order to adjust the interest rate position to a position within the limit or to authorise the limit breach for a certain period of time. Early warning levels are in place to trigger discussions on certain events and require no direct action from the ALCO.

#### Monitoring and reporting

The risk measures are monitored and reported on a daily basis to the ALCO members as well as the Treasury and Capital Markets directorate, except for the Earnings at Risk measure that is calculated on a monthly basis. The daily measures are summarised in a monthly dashboard, which is discussed in the regular ALCO meetings. In addition, these measures and limit monitoring are summarised in the quarterly Risk Report, which is presented to and discussed in the Management Board, the Risk Committee of the Supervisory Board and the Supervisory Board itself.

In the course of 2020, the interest rate position of the Bank has been gradually moved towards the long-term benchmark. At the end of 2020, the active ALCO position (i.e. the actual position compared to the benchmark position) was small, with a delta of EUR -120K relative to the benchmark position.

The limits with respect to interest rate risk were not breached in 2020. In the bank's opinion, its interest rate risk management was adequate, compliant with the regulatory standards and within the limits as defined in the bank's risk appetite and risk policies. The table below outlines the Earnings at Risk as per end of 2020 in a scenario with an instantaneous parallel shock of plus 100 basis points for the 1-year and 2-year horizon. However, the most negative or least positive impact usually can be seen in the scenario with an instantaneous parallel shock of minus 100 basis points, the results of which are shown for 2019. The main reason for this switch is the participation in TLTRO. This is a large liability repricing in the shortest bucket, leading to a significant positive effect in the downward scenario.

Earnings at risk (in EUR million)	2020	2019
Horizon		
1 year	21	30
2 years	35	26

#### Foreign exchange risk

The bank obtains a large portion of its funding in foreign currencies and is therefore exposed to foreign exchange fluctuations. However, according to the bank's policy, foreign exchange risks are hedged in terms of notional amounts. Incidentally, foreign exchange positions may occur in certain cases where it is not cost-efficient to hedge the risk. The foreign exchange risk of these minor positions is monitored on a daily basis, subject to limits. During 2020, these limits were not breached.

#### Volatility risk

In order to be able to manage its interest rate risk exposure in a flexible and cost efficient way, the bank allows itself a very limited range for assuming volatility risk to support the active interest rate position. This range is

limited and is monitored by the Risk Management department on a daily basis. During 2020, no additional volatility risk was assumed to support the active interest rate position. With regard to its other activities, BNG Bank's policy specifies that the volatility risks for new financial instruments should be hedged one-to-one. The resulting volatility risk is relatively small and is subject to monitoring by Risk Management.

#### Spread risk

The economic value of BNG Bank's equity is determined over its total portfolio of assets and liabilities. Both assets and liabilities are valued on the basis of an interest rate curve made up of market-based swap rates plus credit risk spreads. In case of interest rate swaps, the CVA risk (counterparty risk) and DVA risk (the bank's own default risk) are included. Spread risk is not hedged by the bank. The impact of changes in these spreads is measured and monitored on a daily basis. For the fair value instruments affecting profit and loss or regulatory capital, a warning level on the credit spread stress testing outcomes has been set.

#### **Index risk**

The bank has inflation-linked instruments in its portfolio. The bank's policy specifies that exposure to fluctuations in inflation risk should be hedged in full and it executes this policy. The inflation delta is monitored on a daily basis.

### Liquidity risk and funding risk

#### **Definitions**

Liquidity risk is defined as the existing or future threat to the institution's capital and earnings due to the possibility that it will not be able at any moment to fulfil its payment obligations without incurring any unacceptable costs or losses.

- Short-term liquidity risk is the risk that the bank will not be able to attract sufficient funds in order to meet its payment obligations.
- Long-term liquidity risk (or refinancing risk) is the risk that the bank will not, as a result of its own creditworthiness, be able to attract any (or sufficient) funds at funding spreads that won't jeopardise its continuity.

#### Governance

The Treasury and Capital Markets directorate is the 'first line of defence', and is responsible for the day-to-day liquidity and funding risk management, and is in that role, also responsible for attracting funding. Treasury is mandated to assume a liquidity risk position within the limits and triggers as stated by the liquidity and funding risk policy. Treasury operates on the basis of its annual funding plan. This plan is approved by the ALCO, which also decides in case of proposals for significant deviations afterwards.

The Risk Management department is the 'second line of defence' and is responsible for the independent monitoring of liquidity risk, as well as daily checks whether the bank remains within the limits and triggers set by the Asset & Liability Committee (ALCO). Additionally, stress scenarios are used to assess on a monthly basis whether liquidity and funding are sufficient. The Risk Management department has a challenging role towards the "first line of defence" and independently reports to the ALCO and to Treasury on the use of predetermined limits, while it also provides risks analysis and advice, both proactively and on request. Risk Management periodically reviews the assumptions used, maintains the set of policies, frameworks, procedures and reporting, and incorporates new regulations. By participating in the product approval process, it also plays an important role in assessing (new) liquidity and funding risks from new or changed activities.

The Contingency funding Plan (CFP) can be enforced for several reasons, such as a breach of limits of triggers or if deemed necessary by Treasury or ALCO. Additional ALCO meetings, temporary procedures for more intensive liquidity management and temporary control of liquidity management by the liquidity contingency team are the main elements of this plan. This plan was activated in 2020 as a consequence of the COVID-19 pandemic (please refer to "developments").

#### **Developments**

The COVID-19 pandemic causes large volatility and illiquidity in the financial markets. For BNG bank this initially resulted in very limited access to money markets and capital markets, large collateral outflows and illiquidity in derivatives. Although no formal breaches in liquidity triggers had occurred, mainly due to the prudent liquidity policy of the bank, ALCO decided on the 16th of March 2020 to activate the CFP. Subsequently, the ALCO met on a daily basis to discuss market updates and asset production in order to reassess the liquidity position and take the appropriate decisions regarding funding transactions.

The following weeks, the situation on the money markets and capital markets improved significantly. BNG Bank was one of the first lissuers to place a EUR 2 billion USD benchmark and liquidity returned for short maturities (up to two weeks). After further improvement of market access and regained stability in market prices, ALCO reduced its contingency meeting frequency to twice a week. On 19<sup>th</sup> of May 2020 the situation on financial markets was sufficiently normalized for ALCO to deactivate the CFP.

Several other actions and developments are related to the COVID-19 pandemic in no specific order:

- Following the activation of the CFP, BNG Bank participated in the refinancing operation of the ECB (LTRO) by EUR 4 billion and two USD tenders each of approximately USD 2 billion. These participations further strengthened the liquidity buffers without increase in costs. In June and September 2020, BNG Bank participated in two tranches of TLTRO for a total amount of EUR 11 billion. The pricing of TLTRO is attractive compared to long term (and even short term) funding, especially when the so-called bonus rate is achieved. BNG Bank needs to obtain a certain amount of new lending in specific client groups (other than decentral government) in order to achieve this bonus rate. As other participants are aiming for the same, Public Finance encountered strong competition in certain markets (specifically Social Housing) after the start of the TLTRO program in June 2020. The attractive pricing was mainly passed on to the clients (in line with ECB's intention of the TLTRO).
- As a consequence of decreased interest rates, the outstanding amount of collateral increased in 2020 from EUR 13.7 billion to EUR 20.4 billion (historically a very large increase), leading to an increased demand for funding for BNG Bank. Especially for longer dated rates, the decrease was rather an extreme event (approximately three standard deviations based on historical volatility).
- In Q4 2019 (i.e. before the start of the COVID-19 pandemic), ALCO decided to increase the amount of collateral deposited at DNB significantly from approximately EUR 9 billion to EUR 16 billion (unencumbered), to strengthen the bank's liquidity buffers. However, the participation in (T)LTRO lead to an additional encumbrance of the depot. Moreover, once the CFP was activated, a higher pace was desirable. In order to facilitate banks in their liquidity management, DNB increased its capacity to process collateral and ECB haircuts were lowered by 20%, thus enabling a faster growth of the depot.
- Risk Management / ALM increased the frequency of monitoring the internal liquidity survival periods from monthly to weekly. Although a possible breach of the survival period limit was anticipated, BNG Bank demonstrated the ability to survive the most severe stress scenario that was calculated.
- In the second quarter, the bank's normative baseline scenario was adapted for COVID-19 and a new normative COVID-19 adverse scenario was created. For both scenarios the impact on the LCR and the NSFR is calculated at the end of each quarter starting from June 2020. The main conclusion is that the liquidity and funding position and capacity were adequate at the end of each quarter.

All in all, BNG Bank was able to operate effectively both on the capital markets and on the money markets. The bank remained within its liquidity limits.

As part of a multi-year data project, all data regarding liquidity risk was technically redesigned and is now part of the central data warehouse. Daily reporting based on this new data warehouse was virtually finalized by the end of 2020.

#### Liquidity risk

#### **Framework**

BNG Bank wants to maintain a constant and stable presence in the capital markets, because the bank wants to meet the demand for credit from its clients even in difficult times. It also pursues a prudent liquidity policy to ensure that it can meet its obligations at all times. In this context, ongoing access to the money and capital

markets is essential, along with the ongoing maintenance of attractive, varied and sufficiently large issuance programmes for investors. In addition, buffers are required in order to have access to liquidity in times of stress. One such buffer is formed by assets held explicitly for liquidity purposes, known as the liquidity portfolio. The management of the size and composition of this portfolio is one of the liquidity measures taken to comply with the requirement under the CRR to have a Liquidity Coverage Ratio (LCR) of at least 100%. BNG Bank also holds ample quantity of collateral in the depot at the central bank, which enables it to obtain short-term funding immediately. As mentioned before, the amount of collateral in the depot at DNB was increased significantly in 2020. Since most of the bank's assets could serve as collateral at the central bank, this collateral may be even further extended in the event of prolonged stress. The size of both buffers is tested in the liquidity stress tests, which are monitored on at least a monthly basis. Furthermore, the funding plan and the corresponding planned liquidity gap are tested in an adverse stress scenario for the LCR and Net Stable Funding Ratio (NSFR) ratios.

The Treasury & Capital Markets directorate is responsible for the management of the long-term liquidity position of the bank, which is less volatile. The long-term liquidity position is the result of the loan policy on the one hand, and the funding policy on the other hand. Due to the low variability of the maturity schedules and the stability of the new production of loans for the upcoming years, the need for long-term funding can be estimated reasonably well.

On the one hand, the long-term liquidity position is monitored by a (daily available) liquidity gap profile and corresponding limits. The limits are chosen in a conservative way, to ensure that the funding capacity of BNG Bank is sufficient to manage future refinancing. On the other hand, it is managed by means of an Earnings at Risk measure related to a scenario of rising (funding) spreads. The risk in this view is limited by a certain maximum fluctuation in the annual interest rate result, as stated in the Risk Appetite. Moreover, the risk figure is periodically compared to a buffer, the size of which is derived from future locked-in liquidity spreads.

#### Risk measures and limits

For several liquidity and funding risk measures such as liquidity gap analysis, the refinancing spread risk analysis, the contingency funding plan and liquidity stress scenarios assessing the survival period of BNG Bank, limits or early warning levels are in place. The survival period is the period in which the liquidity buffers remain sufficient to absorb the consequences of stress. Survival periods are determined under a range of stress scenarios. For all stress scenarios, except the reverse stress scenario, a limit to or target for the survival period is set in the cascading of the risk appetite. Moreover, contingency funding plan triggers are measured daily to identify a potential liquidity stress situation, in which case it can be decided to activate the contingency funding plan.

#### Monitoring and reporting

The liquidity gap analysis is monitored and reported on a daily basis to ALCO as well as the Treasury and Capital Markets directorate. All measures are summarised in a dashboard on a monthly basis, which is prepared and discussed in the ALCO meetings. In addition, these measures are summarised in the quarterly Risk Report, which is presented to and discussed in the Management Board, the Risk Committee of the Supervisory Board and the Supervisory Board itself.

During 2020, both the liquidity gap and the survival periods met the requirements laid down in the risk appetite. In this period, no formal contingency funding plan triggers were breached, although during several months a contingency funding situation was effective. The bank considers its liquidity management to have been adequate in 2020 and the strength of the bank's liquidity position to be amply sufficient as well as compliant with the regulatory standards and limits set by the ALCO. As of the end of 2020, the LCR ratio amounted to 133% (2019: 158%) and the NSFR ratio amounted to 122% (2019: 126%).

The below table provides an overview of the LCR during 2020. For disclosure purposes, our LCR is based on 12 data points for each quarter. The LCR remains well above the regulatory minimum requirements.

LCR disclosure template (EU LIQ1)

	Scope of consolidation (consolidated)	Total unweighted value Total weighted valu			ıe				
		31/12/	30/09/	30/06/	31/03/	31/12/	30/09/	30/06/	31/03/
	Currency and units (EUR million)	2020	2020	2020	2020	2020	2020	2020	2020
	Number of data points used in the calculation								
	of averages	12	12	12	12	12	12	12	12
	High-quality liquid assets								
1	Total high-quality liquid assets (HQLA)					25,256	23,462	22,601	23,645
	Cash-outflows								
2	Retail deposits and deposits from small business								
	customers, of which:	-	-	-	-	-	-	-	-
3	- Stable deposits	-	-	-	-	-	-	-	-
4	- Less stable deposits	-	-	-	-	-	-	-	-
5	Unsecured wholesale funding	11,411	10,252	10,564	13,444	10,204	9,103	9,263	12,137
6	- Operational deposits (all counterparties) and								
	deposits in networks of cooperative banks	-	-	-	-	-	-	-	-
7	- Non-operational deposits (all counterparties)	3,141	2,816	3,004	3,187	1,934	1,667	1,703	1,881
8	- Unsecured debt	8,271	7,436	7,560	10,256	8,271	7,436	7,560	10,256
9	Secured wholesale funding	-	-	-	-	-	-	-	32
10	Additional requirements	17,314	17,156	16,766	15,068	8,164	7,692	7,052	5,260
11	- Outflows related to derivative exposures and								
	other collateral requirements	6,993	6,486	5,823	4,025	6,993	6,486	5,823	4,025
12	- Outflows related to loss of funding on debt								
	products	-	-	-	-	-	-	-	-
13	- Credit and liquidity facilities	10,321	10,670	10,943	11,042	1,172	1,206	1,229	1,235
14	Other contractual funding obligations	102	103	111	15	101	101	107	10
15	Other contingent funding obligations	1,091	711	328	53	55	36	16	3
16	Total cash outflows	29,918	28,223	27,769	28,580	18,524	16,932	16,439	17,442
	Cash-inflows								
17	Secured lending (eg reverse repos)	-	-	188	265	-	-	39	44
18	Inflows from fully performing exposures	3,815	4,013	4,123	3,912	2,089	2,194	2,223	2,082
19	Other cash inflows	1,879	1,700	1,678	1,046	1,905	1,747	1,739	1,107
EU-	(Difference between total weighted inflows and								
19a	total weighted outflows arising from transactions								
	in third countries where there are transfer								
	restrictions or which are denominated in non-								
	convertible currencies)					-	-	-	-
EU-	(Excess inflows from a related specialised credit								
19b	institution)					-	-	-	-
20	Total cash inflows	5,694	5,712	5,989	5,223	3,994	3,941	4,001	3,233
<b>20</b> EU-	Total cash inflows Fully exempt inflows	5,694	5,712	5,989	5,223	3,994	3,941	4,001	3,233

	Scope of consolidation (consolidated)	Total unweighted value			Total weighted value			е	
EU-	Inflows subject to 90% cap								
20b		-	-	-	-	-	-	-	-
EU-	Inflows subject to 75% cap								
20c		5,694	5,712	5,801	4,958	3,994	3,941	3,961	3,194
21	Liquidity buffer					25,066	22,885	21,818	22,613
22	Total net cash outflows					16,684	14,830	13,938	15,193
23	Liquidity coverage ratio (%)					157%	161%	162%	155%

### **Funding types**

BNG Bank distinguishes between short-term and long-term funding (turning point: 1 year). The majority of funding is from international capital markets. The bank maintains a number of programmes that enable it to have access to funding at all times at competitive levels. The bank pursues proactive investor relations which support these efforts.

The following resources are used for short-term funding (money markets):

- Commercial Paper: The bank has a European Commercial Paper (ECP) programme of EUR 20 billion and a US Commercial Paper (USCP) programme of USD 15 billion. Under normal market circumstances, a substantial margin is maintained between the maximum size allowed under the programme and the bank's actual usage;
- Repurchase transactions with interbank parties under a Global Master Repurchase Agreement (GMRA), where the bank's liquidity portfolio is used to pledge as collateral;
- Deposits from institutional money market parties.

The following programmes are available for long-term funding (capital markets):

- Debt Issuance Programme (DIP) of EUR 100 billion. Socially Responsible Investing (SRI) bonds are also issued under this programme;
- Kangaroo-Kauri Programme of AUD 10 billion, specifically for the Australian and New Zealand market;
- Samurai shelf registration and Uridashi shelf registration, specifically for Japanese investors;
- Namen-Schuld-Verschreibungen (NSV), under German Law;
- Private loan agreements under different legislations.

For reasons of diversification, the bank also uses the following alternative funding sources:

- Global loans from the European Investment Bank and the Council of Europe Development Bank;
- Guaranteed Investment Contracts (GICs).

Note that the bank does not enter into transactions with private individuals.

The bank has a funding plan, in which the desired funding mix is described in more detail. Part of the funding plan is the annual issuance in benchmark size to maintain a 'BNG curve' in the market. These large-scale issues ensure that the bank has a high profile among investors, allowing it to retain access to investors even in times of market stress. The actual realisation of this desired funding mix or the reason for diverging from it is monitored and evaluated by the ALCO, by means of a quarterly funding dashboard provided by Treasury.

### **Operational risk**

### **Definitions**

Operational risk is defined as the risk of losses to earnings and capital due to the shortcomings of internal processes, people and systems, or as a result of external events. Operational risk comprises the following risks:

- Process risk is the risk of shortcomings of internal processes supporting all activities related to products, services, clients, transactions;
- People risk is the risk of losses to earnings and capital resulting from deliberate or unintended actions from people, shortcomings in capacity and employee management;
- ICT risk is the risk that business processes and information systems are supported by information technology whose protection is insufficiently sound, discontinuous or unsatisfactory;
- Data quality risk is the risk that data that are stored and processed are incomplete, inaccurate or inconsistent, impairing the ability of an institution to provide services as well as to produce (risk) management and financial information in a correct and timely manner;
- Outsourcing risk is the risk that the continuity, integrity and/or quality of activities outsourced to third parties, or the equipment or staff provided by these third parties, is adversely affected;
- Compliance risk is the risk associated with the institution's integrity and changes in and compliance with legislation and regulations;
- Legal risk is the risk associated with the possibility that contractual stipulations prove unenforceable or have been incorrectly documented;
- External event risk is the risk of events outside the Bank's direct or indirect control that can impact the Bank's operations.

### Governance

The Executive Board decides on the operational risk management policy, facilitated by the Management Board. The senior management in the Management Board interprets the policies and advises on mitigating or accepting operational risks. As such, the Management Board has the function of an Operational Risk Committee. Hence, the operational risk issues are put explicitly on its agenda. The Management Board is further supported by the three lines of defence model.

Line management is the first line of defence and has as risk owner primary responsibility for managing operational risk in day-to-day operations, in line with policies and arrangements. Although operational risks cannot and need not be fully mitigated, they must obviously be made transparent and manageable.

The Operational Risk Management, Compliance and Security departments constitute the second line for operational risks. They advise, facilitate, challenge and monitor the management of operational risks by the departments in the first line. This to ensure the risks are appropriately identified and managed, thus enabling the organisation to be in control. From an operational risk perspective, the Operational Risk Management department, the Compliance department and the Security department are as second line involved in material projects, process changes as well as in the Product Approval and Review Process. The Compliance department focuses on compliance risks and integrity risks. It is responsible for compliance monitoring of laws and regulations and compliance reporting to the Executive Board and the Supervisory Board. BNG Bank has set up a comprehensive framework for ensuring compliance with new and existing laws and regulations applicable to BNG Bank. The Security department provides support to the Management Board and line management in order

to safeguard the reliability and continuity of the business processes as well as to be in control of security risks. The department is involved in projects from a security perspective. The Security department is positioned in the Processing directorate, with a direct reporting line to the CRO as well as the Management Board in order to safeguard its second line function. The Operational Risk Management (ORM) department is part of Risk Management and provides insight in the exposure on operational risk of BNG Bank. They have oversight on all operational risks and specifically cooperate with Compliance and Security on their disciplines. ORM facilitates the joint operational risk assessments in cooperation with Compliance and where applicable Security. The first line is challenged on their management of operational risks. Risk Management monitors the risk activities of the first line and provides a quarterly Risk Report to the Executive Board and Supervisory Board, based on the risk appetite of the bank.

The Internal Audit Department (IAD) conducts independent assessments supplemental to the risk analysis by the Risk Management, Compliance and Security departments. As such, the IAD forms the third line and reports to the Executive Board. Each year, the managing directors and the other direct reports inform the Executive Board on whether they are in control of the processes and risks for which they are responsible.

### **Developments**

In 2020, the COVID-19 pandemic had a major impact on the world economy and Dutch society and thus on BNG Bank. The bank activated its Crisis Management Team (*Calamiteiten Beheer Team* (CBT)). The CBT met on a weekly to basis steer the bank through the COVID-19 pandemic. From March 2020 onward, most employees started working from home. For the limited number of employees that had to physically work from the office, the bank had splitted the teams and started operating from the main office in The Hague and the back-up office in Zoetermeer, to ensure business continuity. Implementing these changes had and still have a large impact for the bank, but in practice this went rather smoothly. No major COVID-19 related operational incidents were reported.

From 2020 onwards, the responsibilities of the Compliance department was extended from a focus on integrity and conduct-related risks to a scope that also includes the monitoring of compliance on all applicable laws and regulations by the bank. For assessing new regulations BNG Bank has a Compliance Management Framework in place. In 2020, Compliance revised its approach to the yearly Systematic Integrity Risk Analysis (SIRA) based on self-evaluation following feedback from supervisors and internal audit. For this assessment the Compliance department works closely together with the Risk Management department in facilitating the risk and control self-assessment (RCSA) for the business processes. Development of the SIRA process will continue in 2021. In October 2020, the bank has appointed a new Head of Compliance to further elevate its compliance activities.

The business departments, being the risk owners, as first line of defence, are strengthening their own risk monitoring by setting up explicit monitoring programmes. This process has started in 2020 and will continue into 2021. Meanwhile, important steps were made in 2020 in the field of Customer Due Diligence (CDD) with additional external staff and improved processes and technology regarding client information.

Data quality continues to be of high importance. Improvements in the Data Warehouse were made through 2020 to continue into 2021. Information based on data is used for business decisions. This company-wide data warehouse is to contain all business data, necessary to meet both internal information needs as well as external requirements such as the Principles for Effective Risk Data Aggregation and Risk Reporting (PERDARR/BCBS 239). The corresponding data governance processes exist in design but need further strengthening in terms of execution.

The ICT environment is gradually moving from on-premise with the bank's outsourcing partner Centric to a cloud platform. BNG Bank's policies with regard to 'Cloud' set standards and defines controls to mitigate Cloud Risk. A cloud service is only considered for acceptance in case the service provider can provide appropriate assurance on confidentiality, integrity and availability.

Centric is a key partner for the bank's outsourced ICT. Multiple changes within a short period of time in the senior management of Centric are subject of concern and inquiry, but the operational services are in line with the agreed service level. This is monitored by means of monthly Service Level Reports and an external audited ISAE3402 report.

As a relatively small bank in terms of number of employees, BNG Bank is vulnerable with respect to staffing. Apart from the daily business, ICT projects and other changes must be implemented. Broad employability and mobility of staff is promoted to improve organisational agility.

#### General

The Risk Management department supports, advises and challenges line management through several risk management tools. Periodically, Risk Management facilitates risk and control self-assessments (RCSA), supporting line management. The key risks are identified and documented, as are the mitigating key control measures and the resulting residual risk. Risk Management, Compliance and Security challenge the process and the results of the assessments, and they advise on necessary supplementary controls. The RCSA cycle is an annual cycle.

BNG Bank registers all operational incidents with a (potential) impact of EUR 5,000 or higher. To this end, employees are obliged to report all operational incidents to the Risk Management department. Remedial actions directly related to the incident are the responsibility of the first line. Additionally, the Risk Management department conducts an assessment in order to determine whether the prevention of future similar incidents will require any adjustments to the process, systems or working methods. Every quarter, the Risk Management department reports to the Executive Board and senior management on incidents with a (possible) impact from EUR 10,000 upwards. It also provides annual reports on incidents involving a loss of more than EUR 100,000 to the Executive Board and the Supervisory Board's Risk Committee. In 2020 the Incidents Report contains 4 incidents with an estimated impact in excess of EUR 100,000, but within the bank's risk appetite for individual operational losses. The impact of operational incidents on the bank's annual results in 2020 was limited. Incidents which pose a serious threat to the ethical conduct of the business and incidents concerning serious data leakage must be reported to the ECB, while serious leakage of personal data must be reported to the Dutch Data Protection Authority (Autoriteit Persoonsgegevens or AP). In 2020, there were no such incidents to report to the ECB and the AP. The number and impact of operational incidents have risen in 2020 but remain on an acceptable level.

The risk appetite of the bank is updated on an annual basis and cascaded to the different risk types. For operational risk especially the components profitability and reputation and brand are relevant. These are cascaded to a risk tolerance statement for operational risk. The exposure is measured against the risk tolerance in key risk indicators (KRI) as a limit, target or information figure. The KRI's cover all categories of operational risk. The result is reported as part of the quarterly Risk Report to the Executive Board and the Supervisory Board. Apart from the KRI's the Risk Management Department offers an opinion on key non-financial risk.

A scenario analysis on operational risk is performed on an annual basis. Scenarios are identified within the categories and subcategories of operational risk as well as within the event types defined in legislation and reporting requirements. With these scenarios, the economic capital allocation for operational risk is underpinned.

### **Process risk**

Internal processes are designed by process owners in association with the managers of the involved departments. Risk Management is responsible for the documentation of processes, thereby challenging the first line of defence on adequate mitigation of operational risks. All repetitive processes are documented in process flows with triggers, actors, activities, used systems, documents and results.

### People risk

People are an important asset. Adequate staffing is part of the annual planning and control cycle. Managers are responsible for human relations management within their department, supported by the Human Relations Management department. BNG Bank supports the employees' knowledge, expertise and agility by supporting education and coaching. Employees are facilitated to keep their mental and physical health.

Operational risk has a soft component, also referred to as 'culture'. BNG Bank is convinced of the importance of this component. To improve risk awareness, a broad representation of the organisation is involved in various operational risk management activities and operational risk is regularly discussed. The assurance of the integrity of people is discussed in the section on Integrity risk.

In 2020 there were relatively many changes in key positions in the bank. Key person risk is monitored and managed.

### **ICT** risk

The bank's information strategy aims to develop and maintain information systems that allow the bank to continue executing its strategy successfully. The information strategy is reviewed on an annual basis, based on the business objectives and external developments.

The Architecture Advice Group (AAG) is a multidisciplinary team which advises the Management Board on information architecture policies and which assesses plans as well as instructions against internal policies. Security and operational risk in general are important issues in the AAG.

The management of ICT risk is based on the application of preventive rather than remedial measures. These measures are aimed at preventing potential or actual incidents, or detecting them at the earliest possible opportunity, and preventing potential damage or restoring the desired situation as quickly as possible.

An important goal in the ICT architecture is to create a common data source, the central data warehouse, for analysis and reporting and reconciliation. The further development and maintenance of a central data warehouse still requires a large amount of ICT capacity and will continue to do so in the next few years.

The agile methodology has been adopted for carrying out projects. A team consisting of analysts, developers and representatives from the business departments are working together in close collaboration to achieve the desired result. The 'product owner' has the deciding vote on the priorities of the items that the team delivers,

taking into account the interests of all stakeholders. All projects are initiated and managed via a project portfolio. Many changes in systems are prompted by changing laws and regulations.

### ICT availability and continuity risk

BNG Bank has outsourced its ICT infrastructure and technical support to Centric. Centric is an important partner in the control of the availability and continuity risk. For each application, clear arrangements are in place with respect to the availability and loss of data. For monitoring, see the section on outsourcing risk. In order to guarantee the continuity of ICT support within the bank, a yearly fall-back test is conducted. As in previous years, the 2020 test demonstrated that the bank's backup systems are adequately equipped to ensure that services continue as normal in the event of a calamity. For cloud services, before a service is purchased, an assessment is made whether the service meets the requirements for availability (among other things).

### **ICT** security risk

To control the security risk, Centric also has an important role in the implementation of security measures. The systems are weekly tested for vulnerabilities and periodically ethical hack tested.

Awareness of employees to security threats is an important control measure. All bank employees received information security training in 2020 in the form of interactive information sessions and e-learning. There were no major information security incidents in 2020.

### ICT change risk

To remain focused on key projects, all intended projects are prioritised and selected for execution by the Management Board.

Change control, with a separation of the development, test and production environments mitigates the change risk. Where possible, additional automated code review and testing as well as automated deployment are practiced.

### Data quality risk

As data quality is the basis for reliable business operations and management information, it is a subject of discussion at board level within the bank. In operational processes as well as in projects, departments cooperate on improving data quality. Data Owners are accountable for the data and the quality of data within their domain. The Data and Information Management department advises on subjects regarding data and facilitates automated data quality monitoring. With the development of the central data warehouse, the possibilities of data reconciliation and data lineage are increased. The implementation of Master Data Management processes, provides a common point of reference for data on financial products as well as contact data.

### **Outsourcing risk**

BNG Bank's most important outsourcing contract relates to the processing of the payment transactions, as well as a large portion of the bank's further ICT activities to Centric. Apart from payment services, this outsourcing includes the current account administration, the computing centre and workstation management. BNG Bank manages the activities performed by Centric via Service Level Agreements (SLAs) and the bank's internal demand organisation. BNG Bank regularly monitors and evaluates the service provider's services. The ISAE 3402 type II statement annually issued by Centric is part of this procedure. The IAD's periodical audits of Centric provide additional assurance. The bank also structurally monitors the financial situation of Centric and draws up

contingency plans. Other services such as the management of the building and installations, catering, cleaning and landscaping have also been outsourced, with satisfactory results.

Cloud computing is becoming more and more common practice. BNG Bank is treating cloud computing as a way of outsourcing and performs a thorough risk analysis as part of the outsourcing decision. The classification and ultimate destination of the data as well as the characteristics of the outsourcing party and the application are important factors in the decision. Based on the policies regarding information security, outsourcing, cloud computing and architecture, the decision to allow a cloud application is made by the Architecture Advice Group described under ICT Risk above.

### **Compliance risk**

The Compliance department is responsible for independent compliance monitoring of applicable laws, regulations and internal policies. It also has the role and responsibility to foster integrity of the organisation and challenge, report and provide advice on compliance and integrity issues.

#### **Integrity risk**

The risk of internal and external fraud is evaluated periodically, while mitigating controls are in place in processes as well as in automated systems. New staff are assessed on their integrity, irrespective of whether it concerns permanent staff or temporarily hired staff. The importance of integrity is highlighted among all staff on a regular basis. All employees have individually taken the banker's oath and endorsed the disciplinary regulations for banks. The bank also expects its clients and other business partners to adhere to ethical standards and not to jeopardise the bank's reputation. The bank has policies and procedures in place which are used for assessing new and existing clients, contracts and transactions. The bank has whistle-blower arrangements in place that enable staff to report irregularities without fear for their position. No irregularities were reported in 2020.

### **Conduct risk**

The BNG Bank Code of Conduct is published on the website and states the bank's core values: reliable, sustainable and professional. The Code of Conduct serves as a guideline for all actions undertaken by BNG Bank and its employees. The bank carries out a product approval and review process (PARP) to ensure that its products serve the interests of its client groups and its investors and that they do not involve any unacceptable risks for the clients, the investors or the bank itself. The bank places value on acting with high quality and careful services towards clients over an exclusive focus on financial profit or other self-interests.

### **Legal risk**

For managing legal contract risk, the bank has a Legal Affairs and Tax department (JFZ), whose tasks and responsibilities include drafting and/or reviewing legally sound arrangements with clients and other parties. To this end, standard contracts and provisions have been drawn up, which are managed in an internal model contract library. For any deviation from these standard JFZ is consulted. To the extent external documentation is used, these contracts are drafted by or reviewed by external counsel and most of the time also reviewed by JFZ.

The bank has automated the administration of contractual provisions in agreements with clients, with the aim to standardise the conditions and provisions as much as possible. The internal model contract library is aligned with the contract administration and is subject to continuous further development and updating. This guarantees the enforceability of contractual agreements as much as possible, while the standardisation of conditions will result in an operational process that involves as little manual intervention as possible.

Where applicable, the JFZ department seeks external assistance; for example, in the event of complex (often syndicated) transactions and in cases requiring specialist legal knowledge.

As at year end 2020, BNG Bank was not involved in any material legal proceedings.

### Strategic risk

### **Definitions**

Strategic risk is defined as the risk that strategic decisions of the institution itself could result in losses and/or the chance of losses as a result of changes beyond the control of the institution or group in the area of the bank's competitive position, the political climate, regulatory developments, reputation and business climate. In addition to general strategic risks, the following aspects can be identified:

- Reputation risk is the risk that the institution's market position will deteriorate due to a negative perception of its image among stakeholders.
- Political risk is the risk that the institution's competitive and market position will be influenced by the political climate and stakeholder influence.
- Regulatory risk is the risk that developments in regulatory requirements will materially impact the business model and the complexity of operations.
- Business climate is the likelihood of losses due to environmental changes in terms of the economy, stock exchange climate, wage and/or purchasing power developments, broader society, technology, and by the activities, actions and/or decisions of (new) competitors.
- Sustainability risk is the risk that the institution's business model, returns or competitive/ market position will be influenced by factors related to ecology and social transitions.

### Governance

Strategic risks are driven by external factors in particular. They are closely interlinked with the strategic elements in the business plan. In addition, they interlink with other risk types (e.g. operational risks can reach a dimension in which they can have a serious effect on the reputation of BNG Bank or, conversely, a changing business climate causes changes in the credit risk or interest rate risk profile of BNG Bank). For this reason, strategic risk has no dedicated general policy of its own. Instead, BNG Bank's responses to strategic risks are incorporated in the Annual Plan and the business plans of the individual departments. Furthermore, they are incorporated in the stress-testing programme and are also addressed in the Capital Management Plan (as part of the ICAAP). Decisions on strategic risk are the responsibility of the Executive Board, although discussions generally also take place in Management Board or specific committees meetings, depending on the nature of the strategic risk. The identification of strategic risks is part of the strategic decision process. The monitoring of measures and actions to mitigate strategic risk is part of the planning and budget cycle. The reporting on strategic risks is part of the Risk Management cycle.

### Developments

Strategic risks are driven by the external environment of the bank, which is evolving continuously.

Key trends that BNG Bank considers to have an impact on its business model are:

Platforms created by technology firms or financial competitors. Pricing and availability of services are key
competitive advantages of BNG Bank. The bank is not aiming to be a technological frontrunner. However,
BNG Bank cannot afford a lack of digital service offerings to become a client dissatisfier. Therefore, BNG Bank
is extending its digital services gradually over time, giving priority to the unburdening of clients with regard to
administrative processes.

- Increasing regulatory pressure and extensive supervision shows a trend from 'comply or explain' to 'comply and explain'. For an organisation with a sizeable balance sheet but a modest scale of business operations, the implementation of regulations weighs heavily on the available resources. The combination of regulatory costs, banking taxes and the low interest rate environment put pressure on the profitability. Examples are the gatekeeper functions of banks regarding Customer Due Diligence and Anti Money Laundering, but also new guidelines from the European Banking Association on Loan Origination and Monitoring. Despite the relatively low credit risk in the bank's portfolio, increasing demands on credit risk management led to redesign of the bank's lending processes in 2020-2021.
- Sustainability. BNG Bank has started to incorporate climate related risks in the risk management framework, especially in the assessment of the credit portfolio. As a public sector bank, BNG Bank expects that the Dutch Energy Transition will not only be a threat to the value of certain assets financed but will also open the way to new business opportunities.

In 2020, BNG Bank adjusted its strategy, by defining "BNG Bank – Driven by social impact" as its purpose. This purpose is set for implementation by a roadmap named "Road to Impact". As of 2021 the bank targets four Social Development Goals (SDG's) with the objective to maximize its social impact:

- Sustainable cities and communities;
- Good health and well-being;
- Quality education;
- Affordable and clean energy.

In order to obtain the flexibility to execute the strategy the digital ambitions and improvement of internal processes that facilitate the strategy, the bank will expand the Executive Board with two members into an Executive Committee. The new members of the Executive Committee will be a Chief Operating Officer and a Chief Commercial Officer.

### Reputation risk

As a public sector bank, it is of vital importance that the products and services that the bank provides to its clients support their role in the Dutch public sector. This is not only reflected in the product offering, which is tailored to the clients requests, but especially in a certain reticence if it is not sufficiently clear that a particular product is in the clients' interest. This applies in particular to smaller organisations of which the bank has reason to believe that they lack the in-house expertise to manage the risks of the product in question. This is factored into the bank's product approval and review process (PARP), which uses product templates to address explicitly the type of client that the product is suitable for as well as the risks and limitations of the product for both client and bank.

Reputation risk also applies to the bank's other stakeholders, such as investors and shareholders. It often arises as a consequential risk if other risks are not properly controlled. As a result, it makes up an integral part of all aspects of the bank's risk policy. Mitigation of the various risks therefore indirectly safeguards the bank's reputation. Instruments to manage reputation risk include stakeholders dialogues to align expectations.

To preserve its excellent reputation, in the light of increased expectations from society regarding the gatekeeper's function, in 2020 the bank decided to centralize the Customer Due Diligence operations in a separate department. The increased enforcement of Anti-Money Laundering and Counter Terrorist Financing (AML & CTF) rules and regulations result in further digitalisation of the transaction monitoring processes. Based on the bank's own 'Systematic Integrity Risk Analysis' (SIRA), a separate Integrity Risk Appetite and accompanying monitoring is being prepared for use in 2021, thus extending the compliance framework as planned.

### **Political risk**

For BNG Bank, business climate and political risk are closely linked, because public authorities are both shareholders and clients. As a result, the bank's dependence on political decisions is high. This is especially the case for decisions that impact regulations for client sectors which represent significant portions of the bank's balance sheet, such as housing or healthcare.

### Regulatory risk

Regulations are subject to continuous changes and extensions, mostly aimed at improving the safety of banks and often resulting in higher capital requirements or stricter requirements with regards to governance. BNG Bank is specifically exposed to potential changes in solvency requirements based on notional amounts, since most of its assets are zero-risk-weighted. A non-zero risk weight for these exposures could have an unfavourable impact on the bank's capital. In addition, concentration limits on government exposures would be an obvious threat to the bank's business model, that could also be harmed by other regulatory restrictions in lending to its main client sectors.

### Sustainability risk

The financial impact of the energy transition as part of the change towards a sustainable society that is being planned by the government and its social partners is yet unclear. In case of government support for the energy transition by means of guarantee programmes or otherwise, new opportunities could arise for the bank.

Notwithstanding the above, with its "Road to Impact" roadmap, BNG Bank proactively aims to maximize the social impact of its activities in and for the Dutch public sector by targeting the earlier mentioned four SDG's.

Physical exposure to changes in climate, developments in clean technology and public opinions can adversely impact the business models of our clients and the value of their assets. If not managed properly, this could lower their credit ratings which would result in higher risks and capital costs for the bank. Supervisory authorities like ECB and EBA have published supervisory expectations and are preparing changes regarding climate related and environmental risks. These can impact BNG Bank's strategy- and risk management processes, internal governance and capital assessments.

### **Business climate**

The market segments in which BNG Bank operates are characterised by relatively low margins. Although non-financial institutions may benefit from having regulatory advantages or in some cases may benefit from not being regulated at all, so far institutions that are striving to maximize their profits have not entered these market segments on a large scale. In addition, it is a challenge to keep operational costs of servicing a loan portfolio acceptable without a certain scale. Efficiency and scale are key to a profitable business model in this low-margin sector. However, due to ongoing low interest rates including negative rates on government bonds, competition has increased as institutional parties such as pension funds and insurers are entering the public-sector market on a more regular basis than before.

The low interest rate environment and the rising costs are putting pressure on the earnings of the bank. Since BNG Bank's shareholders are first and foremost interested in low credit pricing, the return on equity is of lesser importance. For this reason, the required return for the bank is defined by its main shareholder as a function of the general interest rate, thus compensating the effect of the developments in the interest rate level.

## SCOPE OF APPLICATION (ARTICLE 436 CRR)

The requirements of the CRR apply to BNG Bank. BNG Bank has two subsidiaries that operate in support of the bank's core business activity. There is no difference in scope of consolidation for accounting and prudential purposes for BNG Bank. Each year, BNG Bank prepares consolidated financial statements for the parent company and its subsidiaries. The financial statements of the parent company and its subsidiaries, which are used to prepare the consolidated financial statements, are drawn up at the same reporting date and are based on uniform principles. All intra-group transactions and balances, including income, expenses and dividends, have been fully eliminated in the consolidated financial statements. The consolidated financial statements comprise the following subsidiaries over which BNG Bank has control:

- BNG Gebiedsontwikkeling directly or indirectly provides venture capital or other capital to public authorities and directly or indirectly participates in and/or cooperate with projects, either with or on behalf of public authorities or institutions affiliated with public authorities.
- *Hypotheekfonds voor Overheidspersoneel* finances mortgage loans for civil servants employed by an affiliated public or semi-public institution with which a cooperation agreement has been reached.

# Differences between accounting and regulatory scopes of consolidation and mapping of financial categories to regulatory risk categories (EU LI1)

31-12-2020	Carrying values of items							
	Carrying values as reported in published financial statements and for regulatory consolidation	Subject to credit risk framework	Subject to counterparty credit risk framework	Subject to securitisation framework	Subject to market risk framework	Not subject to capital requirements or subject to deduction of capital		
Assets								
Cash and balances with the central bank	2,312	2,312	-	-	-	-		
Amounts due from banks	120	120	-	-	41	-		
Cash collateral posted	20,361	3	20,358	-	-	-		
Financial assets at FVTPL	1,452	1,452	-	-	765	-		
Derivatives (assets)	8,540	-	8,540	-	2,444	-		
Financial assets at FVOCI	9,738	9,738	-	-	23	-		
Interest-bearing securities at AC	7,880	2,664	-	5,217	1,040	-		
Loans and advances	88,942	88,942	-	-	96	-		
Value adjustments on loans involved in								
portfolio hedge accounting	20,816	20,816	-	-	-	-		
Participating interests	31	31	-	-	-	-		
Property and equipment	17	17	-	-	-	-		
Other assets	149	149	-	-	-	-		
Current tax assets	1	1	-	-	-	-		
Total assets	160,359	126,244	28,898	5,217	4,410	-		
Liabilities								
Amounts due to banks	12,221	-	-	-	715	11,506		
Cash collateral received	858	-	858	-	-	-		
Financial liabilities at FVTPL	656	-	-	-	619	38		
Derivatives (liabilities)	26,965	-	26,965	-	2,761	-		
Debt securities issued	108,615	-	-	-	44,186	64,429		
Funds entrusted	5,599	-	-	-	1,574	4,025		
Subordinated debts	35	-	-	-	-	35		
Current tax liabilities	-	-	-	-	-	-		
Deferred tax liabilities	98	-	-	-	-	98		
Other liabilities	215	-	-	-	66	149		
Total Liabilities	155,262	-	27,823	-	49,921	80,279		

31-12-2019 Carrying values of items

	Carrying values as reported in published financial statements and for regulatory consolidation	Subject to credit risk framework	Subject to counterparty credit risk framework	Subject to securitisation framework	Subject to market risk framework	Not subject to capital requirements or subject to deduction of capital
Assets						
Cash and balances with the central bank	1,272	1,272	-	-	-	-
Amounts due from banks	66	66	-	-	57	-
Cash collateral posted	14,643	2	14,640	-	-	-
Financial assets at FVTPL	1,764	1,764	-	-	1,015	-
Derivatives (assets)	10,004	-	10,004	-	4,230	-
Financial assets at FVOCI	9,222	9,222	-	-	23	-
Interest-bearing securities at AC	7,764	2,708	-	5,056	709	-
Loans and advances	88,279	88,279	-	-	105	-
Value adjustments on loans involved in						
portfolio hedge accounting	16,462	16,462	-	-	-	-
Participating interests	35	35	-	-	-	-
Property and equipment	18	18	-	-	-	-
Current tax assets	30	30	-	-	-	-
Other assets	130	130	-	-	-	-
Total assets	149,689	119,988	24,644	5,056	6,139	-
Liabilities						
Amounts due to banks	1,933	-	-	-	1,378	556
Cash collateral received	1,137	-	1,137	-	-	0
Financial liabilities at FVTPL	674	-	-	-	636	38
Derivatives (liabilities)	22,651	-	22,651	-	1,390	-
Debt securities issued	112,661	-	-	-	52,106	60,555
Funds entrusted	5,575	-	-	-	1,995	3,580
Subordinated debts	33	-	-	-	-	33
Deferred tax liabilities	78	-	-	-	-	78
Other liabilities	60	-	-	-	-	60
Total Liabilities	144,802	-	23,788	-	57,505	64,900

## Main sources of differences between regulatory exposure amounts and carrying values (EU LI2)

31-12-2020		Items subect to:				
	Total	Credit risk framework	Counterparty credit risk framework	Securitisation framework	Market risk framework	
Asset carrying value amount under scope of regulatory				- · · -		
consolidation (as per template LI1)	164,770	126,244	28,898	5,217	4,410	
Liabilities carrying value amount under regulatory scope of						
consolidation (as per template LI1)	77,744	-	27,823	-	49,921	
Total net amount under regulatory scope of consolidation	87,026	126,244	1,075	5,217	-45,511	
Off-balance sheet amounts before CCF after provisions	10,883	10,739	-	144	-	
Differences due to application of the overall net FX position	45,511	-	-	-	45,511	
Differences due to application of Mark-to-Market Method						
and contractual netting for CCR	3,402	-	3,402	-	-	
Differences between financial statements and exposure						
value due to valuation and netting	-13	409	-	-423	-	
Exposure amounts considered for regulatory purposes	146,809	137,392	4,477	4,938	-	

31-12-2019		Items subect to:				
	Total	Credit risk framework	Counterparty credit risk framework	Securitisation framework	Market risk framework	
Asset carrying value amount under scope of regulatory consolidation (as per template LI1)  Liabilities carrying value amount under regulatory scope of	155,827	119,988	24,644	5,056	6,139	
consolidation (as per template LI1)	81,293	-	23,788	-	57,505	
Total net amount under regulatory scope of consolidation	74,534	119,988	856	5,056	-51,366	
Off-balance sheet amounts before CCF after provisions	10,969	10,803	-	166	-	
Differences due to application of the overall net FX position Differences due to application of Mark-to-Market method	51,366	-	-	-	51,366	
and contractual netting for CCR	2,857	-	2,857	-	-	
Differences between financial statements and exposure						
value due to valuation and netting	-53	65	-	-118	-	
Exposure amounts considered for regulatory purposes	139,673	130,856	3,713	5,104	-	

## Explanation of differences between accounting and regulatory exposure (EU LIA)

The consolidation scope for the purpose of calculating Regulatory Capital is equal to the consolidation scope under IFRS. The main differences between the carrying value of assets under the scope of regulatory consolidation and the exposure amounts considered for regulatory purposes can be explained by the inclusion of the off-balance sheet liabilities in the exposure amounts for regulatory purposes, the exclusion of items that are capital deducted, and the different valuation of derivatives due to netting rules and collateral. The market risk framework for regulatory purposes for BNG Bank consists only of the standardised approach for foreign exchange risk. In Table LI1, the column for the market risk framework shows all transactions with a foreign currency component. After eliminating the transactions denominated in euros, the remaining positions, subject to capital charge, are nil for year-end 2020 and 2019 (Table LI2).

## Outline of the differences in the scopes of consolidation (EU LI3)

Name of the entity	Method of accounting consolidation	Method of regulatory consolidation				Description of the entity		
		Fully consolidated	Proportional consolidated	Neither consolidated nor deducted	Deducted			
BNG Gebieds- ontwikkeling BV	Fully consolidated	X				Directly or indirectly provides venture capital or other capital to public authorities and directly or indirectly participates in and/or cooperate with projects, either with or on behalf of public authorities or institutions affiliated with public authorities.		
Hypotheek- fonds voor Overheidspersone BV (HvO)	Fully consolidated eel	X				Finances mortgage loans taken out by civil servants in the employ of an affiliated public or semi-public institution with which a cooperation agreement has been reached.		

## **OWN FUNDS (ARTICLE 437 CRR)**

In response to the COVID-19 pandemic several actions by legislators and regulators have been taken. The most important being the adoption of the so called 'Banking Package' and the measures taken by the European Central Bank. The Banking Package contains several amendments to the Capital Requirements Regulation, the most important being a transitional arrangement for mitigating the impact of IFRS provisions on regulatory capital ('ECL measure'), allowance to temporary exclude central bank reserves from the leverage ratio exposure measure and a temporary treatment of unrealized gains and losses for certain exposures measured at fair value through other comprehensive income ('OCI measure). The use of the ECL as well as the OCI measure is up to the institution. BNG Bank has decided not to use these.

### **Balance sheet reconciliation**

BNG Bank's capitalisation is well above the fully-loaded capital requirements laid down in the Capital Requirements Directive IV (CRD IV). The capital structure consists mainly of common equity. The other part consists of additional Tier 1 instruments.

### **Share capital**

The authorised capital is divided into 100 million shares with a nominal value of EUR 2.50 each, of which 55,690,720 shares have been issued and fully paid up. The number of shares in circulation remained unchanged during the financial year. There are no issued shares that are not fully paid up. BNG Bank and its subsidiaries hold no company shares. None of the shares carry preferential rights, nor are they subject to restrictions. There are no options that can be exercised to obtain entitlement to the issuance of shares.

Equity attributable to the shareholders includes reserves which consist of a revaluation reserve, the cash flow hedge reserve, a reserve for fair value increases as well as retained earnings from previous years. This equity amounts to EUR 4,364 million at end of 2020 and a full breakdown is included in the annual report (pp. 228-230).

### **Hybrid capital**

The bank's hybrid capital amounts to EUR 733 million. In 2020 no additional hybrid capital was issued. Hybrid capital concerns perpetual loans involving an annual non-cumulative discretionary payment on the outstanding principal amount, subject to compulsory amortisation in the event that the CET1 ratio falls below 5.125%. The payment qualifies as dividend under IFRS and is charged to the Other reserves. The instrument is structured in line with CRR requirements and the EBA guidelines and qualifies as additional Tier 1 capital. BNG Bank has the unilateral contractual option of repaying the perpetual capital instruments prematurely on the sixth coupon due date (in May 2021 and 2022) and subsequently every year on the coupon due date.

The tables below show the structure of the regulatory capital.

31-12-2020	Capital	IFRS equity
Paid-up capital	139	139
Share premium	6	6
Retained earnings from previous years	3,712	3,712
Unappropriated profit		221
Accumulated other comprehensive income		
- Cash flow hedge reserve	11	11
- Cost of hedging	184	184
- Own credit adjustment	5	5
- Revaluation reserve	86	86
Common equity Tier 1 (CET1) capital before regulatory adjustments	4,143	4,364
Adjustments to CET1 capital as a result of prudential filters:		
- Distributable dividend (previous year)	-71	
- Cash flow hedge reserve	-11	
- Cumulative gains and losses arising from the bank's own credit risk related to		
derivatives liabilities	0	
- Own credit risk for Financial liabilities at fair value through the income statement	-5	
- Value adjustments due to the prudential valuation requirements	-5	
- Intangible assets	0	
- Expected credit loss allowance of Financial assets at fair value through OCI	-1	
Deduction of capital for securitisation positions eligible as alternatives for a risk		
weight of 1250%	0	
CET1 capital	4,050	
Additional Tier 1 capital:	733	733
Tier 1 capital	4,783	
Total equity		5,097

31-12-2019	Capital	IFRS equity
Paid-up capital	139	139
Share premium	6	6
Retained earnings from previous years	3,567	3,567
Unappropriated profit		163
Accumulated other comprehensive income		
- Cash flow hedge reserve	13	13
- Cost of hedging	174	174
- Own credit adjustment	8	8
- Revaluation reserve	84	84
Common equity Tier 1 (CET1) capital before regulatory adjustments	3,991	4,154
Adjustments to CET1 capital as a result of prudential filters:		
- Cash flow hedge reserve	-13	
- Cumulative gains and losses arising from the bank's own credit risk related to		
derivatives liabilities	-1	
- Own credit risk for Financial liabilities at fair value through the income statement	-8	
- Value adjustments due to the prudential valuation requirements	-5	
- Intangible assets	-4	
- Expected credit loss allowance of Financial assets at fair value through OCI	-1	
Deduction of capital for securitisation positions eligible as alternatives for a risk		
weight of 1250%		
CET1 capital	3,959	
Additional Tier 1 capital:	733	733
Tier 1 capital	4,692	
Total equity		4,887

### **Prudential filters**

BNG Bank applies, in line with the Capital Requirements Regulations, the following prudential filters to the CET1 capital:

- The cash flow hedge reserve is eliminated.
- The benefits arising from own credit risk (DVA) in derivatives transactions are eliminated.
- The benefits arising from 'own credit risk' in relation to obligations classified as Financial liabilities at fair value through the income statement are eliminated.
- Due to the regulations on prudent valuation, an adjustment is calculated in relation to the balance sheet valuation of assets and liabilities that are carried at fair value.
- The investments in the development of software is activated and amortised over three years. After a correction for 'deferred tax', the total of these intangible assets is deducted.
- The expected credit loss allowance of Financial assets at fair value through OCI.

### **Deductible items**

BNG Bank does not have any positions with a 1250% solvency weighting in both 2020 and 2019.

### Capital instruments' main features template

BN	G Bank N.V.			
1 2	Issuer Unique identifier (eg CUSIP, ISIN or Bloomberg identifier for private	BNG Bank N.V.	BNG Bank N.V. XS1311037433	BNG Bank N.V. XS1453520378
3	placement) Governing law(s) of the instrument	Laws of the Netherlands	Laws of the Netherlands	Laws of the Netherlands
Reg	ulatory treatment			
4	Transitional CRR rules	Common Equity Tier 1	Additional Tier 1	Additional Tier 1
5	Post-transitional CRR rules	Common Equity Tier 1	Additional Tier 1	Additional Tier 1
6	Eligible at solo / (sub-)consolidated / solo&(sub-)consolidated	Solo & (sub-)consolidated	Solo & (sub-)consolidated	Solo & (sub-)consolidated
7	Instrument type (types to be specified by each jurisdiction)	Ordinary share	Perpetual Capital Security	Perpetual Capital Security
8	Amount recognised in regulatory capital (Currency in million, as of most recent reporting date).	EUR 145	EUR 424	EUR 309
9	Nominal amount of instrument	EUR 139	EUR 424	EUR 309
9a	Issue price	n/a	100% for 1st tranche at 16/11/2015 (a 2nd tranche was issued on 15/12/2015 on the same terms with a price of 100.61%)	100% for 1st tranche at 28/07/2016 (two follow-up tranches were issued in second half of 2016 on same terms at 100.34% and 99.72% respectively)
9b	Redemption price	n/a	Subject to write down	Subject to write down
10	Accounting classification	Shareholders'equity	Equity	Equity
11	Original date of issuance	23 December 1914	16 November 2015	28 July 2016
12	Perpetual or dated	Perpetual	Perpetual	Perpetual
13 14	Original maturity date Issuer call subject to prior supervisory approval	no maturity No	no maturity Yes	no maturity Yes
15	Optional call date,	n/a	16 May 2021 and every interest payment date thereafter,	16 May 2022 and every interest payment date thereafter,
	contingent call dates,		Tax and/or regulatory event call,	Tax and/or regulatory event call,
	and redemption amount		Redemption at prevailing principal amount	Redemption at prevailing principal amount
16	Subsequent call dates, if applicable	n/a	Interest payment date (16 May)	Interest payment date (16 May)
Cou	ipons / dividends			
17	Fixed or floating dividend/coupon	Floating	Fixed	Fixed

Co	ntinuation of previous page			
BN	G Bank N.V.			
18	Coupon rate and any related index	n/a	3.622%, resettable on 16 May 2021 and every 5 years afterwards equal to prevailing 5-year Mid- Swap Rate plus initial margin	3.277%, resettable on 16 May 2022 and every 5 years afterwards equal to prevailing 5-year Mid- Swap Rate plus initial margin
19	Existence of a dividend stopper	n/a	n/a	n/a
20a	Fully discretionary, partially discretionary or mandatory (in terms of timing)	Mandatory	Mandatory	Mandatory
20b	Fully discretionary, partially discretionary or mandatory (in terms of amount)	Fully discretionary	Fully discretionary	Fully discretionary
21	Existence of step up or other incentive to redeem	n/a	No	No
22	Noncumulative or cumulative	Noncumulative	Noncumulative	Noncumulative
23	Convertible or non-convertible	Nonconvertible	Nonconvertible	Nonconvertible
24	If convertible, conversion trigger(s)	n/a	n/a	n/a
25	If convertible, fully or partially	n/a	n/a	n/a
26	If convertible, conversion rate	n/a	n/a	n/a
27	If convertible, mandatory or optional conversion	n/a	n/a	n/a
28	If convertible, specify instrument type convertible into	n/a	n/a	n/a
29	If convertible, specify issuer of instrument it converts into	n/a	n/a	n/a
30	Write-down features	No	Yes	Yes
31	If write-down, write-down trigger(s)	n/a	CET1 ratio < 5.125%	CET1 ratio < 5.125%
32	If write-down, fully or partially	n/a	Partially	Partially
33	If write-down, permanent or temporary	n/a	Temporary	Temporary
34	If temporary write-down, description of write-up mechanism	n/a	Pro rata with other Discretionary Temporary Write-down Instruments, subject to MDA and Maximum Write-up Amount	Pro rata with other Discretionary Temporary Write-down Instruments, subject to MDA and Maximum Write-up Amount
35	Position in subordination hierarchy in liquidation (specify instrument type immediately senior to instrument)	Additional Tier 1 instruments	Tier 2 instruments	Tier 2 instruments
36	Non-compliant transitioned features	No	No	No
37	If yes, specify non-compliant features			

## Own funds disclosure template

		(A) Amount at 31/12/2020	(A) Amount at 31/12/2019	(B) Regulation (EU) NO 575/2013 Article Reference
Со	mmon Equity Tier 1 capital: instruments and			
res	erves			
1	Capital instruments and the related share	145	145	26 (1), 27, 28, 29, EBA list 26 (3)
	premium accounts, of which:			
	- Ordinary shares	139	139	EBA list 26 (3)
	- Share premium	6	6	EBA list 26 (3)
	- Instrument type 3		-	EBA list 26 (3)
2	Retained earnings	3,640	3,567	26 (1) (c)
3	Accumulated other comprehensive income	287	279	26 (1)
	(and any other reserves)			
3a	Funds for general banking risk		-	26 (1) (f)
4	Amount of qualifying items referred to in		-	486 (2)
	Article 484 (3) and the related share premium			
	accounts subject to phase out from CET1			
5	Minority interests (amount allowed in		-	84
	consolidated CET1)			
5a	Independently reviewed interim profits net		-	26 (2)
	of any foreseeable charge or dividend			
6	Common Equity Tier 1 (CET1) capital before	4,072	3,991	
	regulatory adjustments			
Co	mmonEquityTier1(CET1)capital:regulatory			
adj	ustments			
7	Additional value adjustments (negative	-5	-5	34, 105
0	amount)		2	26 (1) (1) 27
8	Intangible assets (net of related tax liability)		-3	36 (1) (b), 37
^	(negative amount)			
9	Empty set in the EU		<del>-</del>	26 (1) (5) 20
10	Deferred tax assets that rely on future		-	36 (1) (c), 38
	profitability excluding those arising from			
	temporary difference (net of related tax			
	liability where the conditions in Article 38 (3) are met) (negative amount)			
11	Fair value reserves related to gains or losses	11	-13	22 (a)
11	on cash flow hedges	-11	-13	33 (a)
12	Negative amounts resulting from the	-1	-1	36 (1) (d), 40, 159
	calculation of expected loss amounts			
13	Any increase in equity that results from		-	32 (1)
	securitised assets (negative amount)			(//
14	Gains or losses on liabilities valued at fair	-5	-9	33 (1) (b) (c)
				( ) (-) (-)
	value resulting from changes in own credit			

	(A) Amount at	(A) Amount at	(B) Regulation (EU) NO 575/2013
Continuation of previous page	31/12/2020	31/12/2019	Article Reference
15 Defined-benefit pension fund assets		-	36 (1) (e), 41
<ul><li>(negative amount)</li><li>Direct and indirect holdings by an institution</li></ul>			36 (1) (f), 42
of own CET1 instruments (negative amount)		-	30 (1) (1), 42
17 Direct, indirect and synthetic holdings of the		-	36 (1) (g), 44
CET1 instruments of financial sector entities			( / (6//
where those entities have reciprocal cross			
holdings with the institution designed to			
inflate artificially the own funds of the			
institution (negatvie amount)			
18 Direct, indirect and synthetic holdings of the		-	36 (1) (h), 43, 45, 46, 49 (2) (3), 79
CET1 instruments of financial sector entities			
where the institution does not have a significant investment in those entities			
(amount above 10% threshold and net of			
eligible short positions) (negative amount)			
19 Direct, indirect and synthetic holdings of the		-	36 (1) (i), 43, 45, 47, 48 (1) (b), 49 (1)
CET1 instruments of financial sector entities			to (3), 79
where the institution has a significant			
investment in those entities (amount above			
10% threshold and net of eligible short			
positions) (negative amount)			
20 Empty set in the EU		-	26 (1) (1)
20a Exposure amount of the following items		-	36 (1) (k)
which qualify for a RW of 1250%, where the institution opts for the deduction alternative,			
of which:			
20b- qualifying holdings outside the financial		-	36 (1) (k) (i), 89 to 91
sector (negative amount)			
20c - securitisation positions (negative amount)		-	36 (1) (k) (ii)
			243 (1) (b)
			244 (1) (b)
2016 1:16 11: : / ::			258
20dof which: free deliveries (negative amount)		-	36 (1) (k) (iii), 379 (3)
21 Deferred tax assets arising from temporary difference (amount above 10 % threshold, net		-	36 (1) (c), 38, 48 (1) (a)
of related tax liability where the conditions			
in Article 38 (3) are met) (negative amount)			
22 Amount exceeding the 15% threshold		-	48 (1)
(negative amount)			,
23 of which: direct and indirect holdings by the		-	36 (1) (i), 48 (1) (b)
institution of the CET1 instruments of			
financial sector entities where the institution			
has a significant investment in those entities			
24 Empty set in the EU		-	

Continuation of previous page	(A) Amount at 31/12/2020	(A) Amount at 31/12/2019	(B) Regulation (EU) NO 575/2013  Article Reference
25 of which: deferred tax assets arising from	31, 12, 2020	-	36 (1) (c), 38, 48 (1) (a)
temporary difference 25a Losses for the current financial year (negative		-	36 (1) (a)
amount) 25b Foreseeable tax charges relating to CET1		_	36 (1) (l)
items (negative amount)			2-1 (7 (7
26 Regulatory adjustments applied to Common Equity Tier 1 in respect of amounts subject to		-	
pre-CRR treatment  26a Regulatory adjustments relating to		_	
unrealised gains and losses pursuant to Articles 467 and 468			
27 Qualifying AT1 deductions that exceeds the		-	36 (1) (j)
AT1 capital of the institution (negative amount)			
28 Total regulatory adjustments to Common Equity Tier 1 (CET1)	-22	-32	
29 Common Equity Tier 1 (CET1) capital Additional Tier 1 (AT1) capital: instruments	4,050	3,959	
30 Capital instruments and the related share	733	733	51, 52
premium accounts, of which: 31 - classified as equity under applicable	733	733	
accounting standards			
<ul><li>32 - classified as liabilities under applicable accounting standards</li></ul>		-	
33 Amount of qualifying items referred to in		-	486 (3)
Article 484 (4) and the related share premium accounts subject to phase out from AT1			
34 Qualifying Tier 1 capital included in consolidated AT1 capital (including minority		-	85, 86, 480
interest not included in row 5) issued by			
subsidiaries and held by third parties 35 of which: instruments issued by subsidiaries		_	486 (3)
subject to phase-out			
36 Additional Tier 1 (AT1) capital before regulatory adjustments	733	733	
Additional Tier 1 (AT1) capital: regulatory			
<ul><li>adjustments</li><li>37 Direct and indirect holdings by an institution</li></ul>	_	_	52 (1) (b), 56 (a), 57
of own AT1 instruments (negative amount)			32 (1) (0), 30 (a), 31
38 Holdings of the ATI instruments of financial	-	-	56 (b), 58
sector entities where those entities have reciprocal cross holdings with the institution			

	(A) Amount at	(A) Amount at	(B) Regulation (EU) NO 575/2013
Continuation of previous page	31/12/2020	31/12/2019	Article Reference
designed to inflate artificially the own funds			
of the institution (negative amount)			
39 Direct, indirect and synthetic holdings of the	-	-	56 (c), 59, 60, 79
AT1 instruments of financial sector entities			
where the institution does not have a			
significant investment in those entities			
(amount above 10% threshold and net of			
eligible short positions) (negative amount)			F.C. ( 1), F.O. 70
40 Direct, indirect and synthetic holdings of the AT1 instruments of financial sector entities	-	-	56 (d), 59, 79
where the institution has a significant			
investment in those entities (amount above			
10% threshold and net of eligible short			
positions) (negative amount)			
41 Empty set in the EU	-	-	
42 Qualifying T2 deductions that exceed the T2	-	-	56 (e)
capital of the institution (negative amount)			
43 Total regulatory adjustments to Additional	-	-	
Tier 1 (AT1) capital			
44 Additional Tier 1 (AT1) capital	733	733	
45 Tier 1 capital (T1 = CET1 + AT1)	4,783	4,692	
Tier 2 (T2) capital: instruments and provisions			
46 Capital instruments and the related share		-	62, 63
46 Capital instruments and the related share premium accounts		-	
<ul><li>46 Capital instruments and the related share premium accounts</li><li>47 Amount of qualifying items referred to in</li></ul>		-	62, 63 486 (4)
<ul> <li>46 Capital instruments and the related share premium accounts</li> <li>47 Amount of qualifying items referred to in Article 484 (5) and the related share premium</li> </ul>		-	
<ul> <li>46 Capital instruments and the related share premium accounts</li> <li>47 Amount of qualifying items referred to in Article 484 (5) and the related share premium accounts subject to phase out from T2</li> </ul>		-	486 (4)
<ul> <li>46 Capital instruments and the related share premium accounts</li> <li>47 Amount of qualifying items referred to in Article 484 (5) and the related share premium accounts subject to phase out from T2</li> <li>48 Qualifying own funds instruments included</li> </ul>		-	
<ul> <li>46 Capital instruments and the related share premium accounts</li> <li>47 Amount of qualifying items referred to in Article 484 (5) and the related share premium accounts subject to phase out from T2</li> <li>48 Qualifying own funds instruments included in consolidated T2 capital (including minority</li> </ul>		-	486 (4)
<ul> <li>46 Capital instruments and the related share premium accounts</li> <li>47 Amount of qualifying items referred to in Article 484 (5) and the related share premium accounts subject to phase out from T2</li> <li>48 Qualifying own funds instruments included in consolidated T2 capital (including minority interest and AT1 instruments not included in</li> </ul>		-	486 (4)
<ul> <li>46 Capital instruments and the related share premium accounts</li> <li>47 Amount of qualifying items referred to in Article 484 (5) and the related share premium accounts subject to phase out from T2</li> <li>48 Qualifying own funds instruments included in consolidated T2 capital (including minority</li> </ul>		-	486 (4)
<ul> <li>46 Capital instruments and the related share premium accounts</li> <li>47 Amount of qualifying items referred to in Article 484 (5) and the related share premium accounts subject to phase out from T2</li> <li>48 Qualifying own funds instruments included in consolidated T2 capital (including minority interest and AT1 instruments not included in rows 5 or 34) issued by subsidiaries and held</li> </ul>		-	486 (4)
<ul> <li>46 Capital instruments and the related share premium accounts</li> <li>47 Amount of qualifying items referred to in Article 484 (5) and the related share premium accounts subject to phase out from T2</li> <li>48 Qualifying own funds instruments included in consolidated T2 capital (including minority interest and AT1 instruments not included in rows 5 or 34) issued by subsidiaries and held by third party</li> </ul>		-	486 (4) 87, 88, 480
<ul> <li>46 Capital instruments and the related share premium accounts</li> <li>47 Amount of qualifying items referred to in Article 484 (5) and the related share premium accounts subject to phase out from T2</li> <li>48 Qualifying own funds instruments included in consolidated T2 capital (including minority interest and AT1 instruments not included in rows 5 or 34) issued by subsidiaries and held by third party</li> <li>49 of which: instruments issued by subsidiaries subject to phase-out</li> <li>50 Credit risk adjustments</li> </ul>		-	486 (4) 87, 88, 480
<ul> <li>46 Capital instruments and the related share premium accounts</li> <li>47 Amount of qualifying items referred to in Article 484 (5) and the related share premium accounts subject to phase out from T2</li> <li>48 Qualifying own funds instruments included in consolidated T2 capital (including minority interest and AT1 instruments not included in rows 5 or 34) issued by subsidiaries and held by third party</li> <li>49 of which: instruments issued by subsidiaries subject to phase-out</li> <li>50 Credit risk adjustments</li> <li>51 Tier 2 (T2) capital before regulatory</li> </ul>		-	486 (4) 87, 88, 480 486 (4)
<ul> <li>46 Capital instruments and the related share premium accounts</li> <li>47 Amount of qualifying items referred to in Article 484 (5) and the related share premium accounts subject to phase out from T2</li> <li>48 Qualifying own funds instruments included in consolidated T2 capital (including minority interest and AT1 instruments not included in rows 5 or 34) issued by subsidiaries and held by third party</li> <li>49 of which: instruments issued by subsidiaries subject to phase-out</li> <li>50 Credit risk adjustments</li> </ul>	-	- - - -	486 (4) 87, 88, 480 486 (4)
<ul> <li>46 Capital instruments and the related share premium accounts</li> <li>47 Amount of qualifying items referred to in Article 484 (5) and the related share premium accounts subject to phase out from T2</li> <li>48 Qualifying own funds instruments included in consolidated T2 capital (including minority interest and AT1 instruments not included in rows 5 or 34) issued by subsidiaries and held by third party</li> <li>49 of which: instruments issued by subsidiaries subject to phase-out</li> <li>50 Credit risk adjustments</li> <li>51 Tier 2 (T2) capital before regulatory adjustment</li> <li>Tier 2 (T2) capital: regulatory adjustments</li> </ul>	-	- -	486 (4) 87, 88, 480 486 (4) 62 (c) & (d)
<ul> <li>46 Capital instruments and the related share premium accounts</li> <li>47 Amount of qualifying items referred to in Article 484 (5) and the related share premium accounts subject to phase out from T2</li> <li>48 Qualifying own funds instruments included in consolidated T2 capital (including minority interest and AT1 instruments not included in rows 5 or 34) issued by subsidiaries and held by third party</li> <li>49 of which: instruments issued by subsidiaries subject to phase-out</li> <li>50 Credit risk adjustments</li> <li>51 Tier 2 (T2) capital before regulatory adjustment</li> <li>Tier 2 (T2) capital: regulatory adjustments</li> <li>52 Direct and indirect holdings by an institution</li> </ul>	-	- - - -	486 (4) 87, 88, 480 486 (4)
<ul> <li>46 Capital instruments and the related share premium accounts</li> <li>47 Amount of qualifying items referred to in Article 484 (5) and the related share premium accounts subject to phase out from T2</li> <li>48 Qualifying own funds instruments included in consolidated T2 capital (including minority interest and AT1 instruments not included in rows 5 or 34) issued by subsidiaries and held by third party</li> <li>49 of which: instruments issued by subsidiaries subject to phase-out</li> <li>50 Credit risk adjustments</li> <li>51 Tier 2 (T2) capital before regulatory adjustment</li> <li>52 Direct and indirect holdings by an institution of own T2 instruments and subordinated</li> </ul>	-	-	486 (4) 87, 88, 480 486 (4) 62 (c) & (d)
<ul> <li>46 Capital instruments and the related share premium accounts</li> <li>47 Amount of qualifying items referred to in Article 484 (5) and the related share premium accounts subject to phase out from T2</li> <li>48 Qualifying own funds instruments included in consolidated T2 capital (including minority interest and AT1 instruments not included in rows 5 or 34) issued by subsidiaries and held by third party</li> <li>49 of which: instruments issued by subsidiaries subject to phase-out</li> <li>50 Credit risk adjustments</li> <li>51 Tier 2 (T2) capital before regulatory adjustment</li> <li>52 Direct and indirect holdings by an institution of own T2 instruments and subordinated loans (negative amount)</li> </ul>	-	-	486 (4) 87, 88, 480 486 (4) 62 (c) & (d)
<ul> <li>46 Capital instruments and the related share premium accounts</li> <li>47 Amount of qualifying items referred to in Article 484 (5) and the related share premium accounts subject to phase out from T2</li> <li>48 Qualifying own funds instruments included in consolidated T2 capital (including minority interest and AT1 instruments not included in rows 5 or 34) issued by subsidiaries and held by third party</li> <li>49 of which: instruments issued by subsidiaries subject to phase-out</li> <li>50 Credit risk adjustments</li> <li>51 Tier 2 (T2) capital before regulatory adjustment</li> <li>52 Direct and indirect holdings by an institution of own T2 instruments and subordinated loans (negative amount)</li> <li>53 Holdings of the T2 instruments and</li> </ul>	-		486 (4) 87, 88, 480 486 (4) 62 (c) & (d)
<ul> <li>46 Capital instruments and the related share premium accounts</li> <li>47 Amount of qualifying items referred to in Article 484 (5) and the related share premium accounts subject to phase out from T2</li> <li>48 Qualifying own funds instruments included in consolidated T2 capital (including minority interest and AT1 instruments not included in rows 5 or 34) issued by subsidiaries and held by third party</li> <li>49 of which: instruments issued by subsidiaries subject to phase-out</li> <li>50 Credit risk adjustments</li> <li>51 Tier 2 (T2) capital before regulatory adjustment</li> <li>52 Direct and indirect holdings by an institution of own T2 instruments and subordinated loans (negative amount)</li> </ul>	-		486 (4) 87, 88, 480 486 (4) 62 (c) & (d)

		(A) Amount at	(A) Amount at	(B) Regulation (EU) NO 575/2013
Co	ontinuation of previous page	31/12/2020	31/12/2019	Article Reference
	holdings with the institutions designed to			
	inflate artificially the own funds of the			
	institution (negative amount)			
54	Direct, indirect and synthetic holdings of the		-	66 (c), 69, 70, 79
	T2 instruments and subordinated loans of			
	financial sector entities where the institution			
	does not have a significant investment in those entities (amount above 10 % threshold			
	and net of eligible short positions) (negative			
	amount)			
55	Direct, indirect and synthetic holdings of the		-	66 (d), 69, 79
	T2 instruments and subordinated loans of			( ),
	financial sector entities where the institution			
	has a significant investment in those entities			
	(net of eligible short positions) (negative			
	amounts)			
	Empty set in the EU		-	
57	Total regulatory adjustments to Tier 2 (T2)	-	-	
	capital			
58	Tier 2 (T2) capital	-	-	
59	Total capital (TC = T1 + T2)	4,783	4,692	
60	Total risk-weighted assets	12,127	12,271	
	pital ratios and buffers			
61	Common Equity Tier 1 (as a percentage of	33.40%	32.31%	92 (2) (a), 465
	total risk exposure amount	20.440/	20.200/	02 (2) (1) 465
62	Tier 1 (as a percentage of total risk exposure amount	39.44%	38.20%	92 (2) (b), 465
63	Total capital (as a percentage of total risk	39.44%	38.20%	92 (2) (c)
	exposure amount			· ( ) ( · )
64	Institution specific buffer requirement (CET1	10.25%	10.33%	CRD 128, 129, 140
	requirement in accordance with article 92 (1)			
	(a) plus capital conservation and			
	countercyclical buffer requirements plus a			
	systemic risk buffer, plus systemically			
	important institution buffer expressed as a			
	percentage of total risk exposure amount)			
65	of which: capital conservation buffer requirement	2.50%	2.50%	
66	of which: countercyclical buffer requirement	0.000%	0.000%	
67	of which: systemic risk buffer requirement	n/a	n/a	
678	of which: Global Systemically Important	1.00%	1.00%	CRD 131
	Institution (G-SII) or Other Systemically			
	Important Institution (O-SII) buffer			

Continuation of previous page	(A) Amount at 31/12/2020	(A) Amount at 31/12/2019	(B) Regulation (EU) NO 575/2013  Article Reference
68 Common Equity Tier 1 available to meet buffers (as a percentage of risk exposure	33.40%	32.31%	CRD 128
amount)			
69 [non-relevant in EU regulation]		-	
70 [non-relevant in EU regulation]		-	
71 [non-relevant in EU regulation]		-	
lem:lem:lem:lem:lem:lem:lem:lem:lem:lem:			
(before risk-weighting)			
72 Direct and indirect holdings of the capital of		-	36 (1) (h), 45, 46, 472 (10)
financial sector entities where the institution			
does not have a significant investment in those entities (amount below 10% threshold			
and net of eligible short positions			
and het of eligible short positions			56 (c), 59, 60, 475 (4), 66 (c), 69, 70
73 Direct and indirect holdings of the CET1		_	36 (1) (i), 45, 48
instruments of financial sector entities where			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
the institution has a significant investment			
in those entities (amount below 10%			
threshold and net of eligible short positions			
74 Empty set in the EU		-	
75 Deferred tax assets arising from temporary		-	36 (1) (c), 38, 48
difference (amount below 10 % threshold, net			
of related tax liability where the conditions			
in Article 38 (3) are met)			
Applicable caps on the inclusion of provisions in Tier 2			
76 Credit risk adjustments included in T2 in		_	62
respect of exposures subject to standardised			92
approach (prior to the application of the cap)			
77 Cap on inclusion of credit risk adjustments		-	62
in T2 under standardised approach			
78 Credit risk adjustments included in T2 in		-	62
respect of exposures subject to internal			
rating-based approach (prior to the			
application of the cap)			
79 Cap for inclusion of credit risk adjustments		-	62
in T2 under internal ratings-based approach			
Capital instruments subject to phase-out			
arrangements (only applicable between 1 Jan			
2014 and 1 Jan 2022)			404 (2) 40C (2) 0 (F)
80 Current cap on CET1 instruments subject to phase-out arrangements		-	484 (3), 486 (2) & (5)
phase-out arrangements			

	(A) Amount at	(A) Amount at	(B) Regulation (EU) NO 575/2013
Continuation of previous page	31/12/2020	31/12/2019	Article Reference
81 Amount excluded from CET1 due to cap		-	484 (3), 486 (2) & (5)
(excess over cap after redemptions and			
maturities)			
82 Current cap on AT1 instruments subject to		-	484 (4), 486 (3) & (5)
phase-out arrangements			
83 Amount excluded from AT1 due to cap (excess		-	484 (4), 486 (3) & (5)
over cap after redemptions and maturities)			
84 Current cap on T2 instruments subject to		-	484 (5), 486 (4) & (5)
phase-out arrangements			
85 Amount excluded from T2 due to cap (excess		-	484 (5), 486 (4) & (5)
over cap after redemptions and maturities)			

# CAPITAL REQUIREMENTS (ARTICLES 438 AND 440 CRR)

### **Capital and solvency**

### **Definitions**

### Regulatory Capital (CRD IV/CRR)

Regulatory Capital relates to the capital requirements under the CRD IV/CRR. For regulatory purposes the capital requirement is based on the Pillar 1 requirement for the aggregated Risk-Weighted Assets (RWA) for the three major risk types (credit, operational and market risk). This requirement is supplemented by so-called Combined Buffer Requirement (CBR) and a Pillar 2 requirement (P2R). The CBR consists of a capital conservation buffer, a systemic risk buffer, a countercyclical buffer and a systemic relevance buffer. The P2R is an institutional specific requirement stemming from the Supervisor Review and Evaluation Process (SREP) conducted by the supervisor. The P2R covers risks that are not (fully) covered by Pillar 1. BNG Bank employs the 'Standardised Approach' to calculate the RWAs.

#### **Economic Capital**

In addition to the regulatory required capital BNG Bank calculates Economic Capital (EC). Economic capital covers all risks in our risk taxonomy, for which capital is deemed to cover unexpected losses. It is used for internal risk measurement and management. It is the amount of capital BNG Bank deems adequate to pursue its strategy and which achieves a sufficient level of protection against large unexpected losses that could result from extreme market conditions or events.

### **Capital Management Strategy**

The primary objective of the capital management strategy is to ensure that internal as well as external capital adequacy requirements are met at all times and sufficient capital is available to support the bank's strategy. The capital management strategy builds on the bank's risk appetite and its business plans. Besides expectations and requirements of external stakeholders (e.g. regulators, investors, rating agencies, shareholders), the bank's capitalisation relative to the market, market developments and the feasibility of capital management actions are taken into account. The capitalisation policy is incorporated in the so-called Internal Capital Adequacy Assessment Process (ICAAP). Key to this policy is the capital management plan, which determines the level and composition of the capital based on the risks to be captured by that capital. In the ICAAP, regulatory as well as economic capital is taken into account. As part of the ICAAP a number of stress scenarios is executed in order to determine the adequacy and robustness of the capitalisation. Next to the level of capitalisation, the ICAAP determines the allocation per relevant type of risk. On an ongoing basis, capital adequacy is measured and monitored against target capital ratios. These target levels are derived from the bank's risk appetite and strategy

and quantified by the ICAAP. The allocation is derived from the ICAAP. This process ensures that the bank is operating in line with its risk appetite.

### Governance

The capital management activities are governed by the capital management policy. The Executive Board is responsible for determining the policy with respect to capital, including the allocation of capital. Decision making is prepared by the Capital Committee. This committee is chaired by a member of the Executive Board and its members represent all relevant stakeholders from Public Finance, Treasury, Capital Management, Risk Management and Finance and Control.

The design of the capital management process is organised in the Capital Management Framework. This framework interacts with the strategy and overall governance of the bank and ensures alignment to the risk appetite and risk related policies. The framework also enables the embedding of capital management considerations in the daily decision making process by means of the pricing-model, product approval process and the credit approval process.

### **Developments**

BNG Bank is required in 2020 to meet a minimum CET1 ratio of 9.27% and an overall Capital Requirement level of 13.75%. BNG Bank amply meets the requirements.

In response to the Covid-19 pandemic, the ECB announced a number of capital relief measures in March 2020 to support banks in serving the economy and addressing operational challenges. The ECB brought forward changes in CRD V and provides temporary capital and operational relief in reaction to the pandemic, allowing banks to use Additional Tier 1 and Tier 2 to satisfy parts of the Pillar 2 requirements. The Pillar 2 requirement is 2.25% and unchanged with respect to last year. As a result of the measure menitioned, the CET1 part decreased and hence the maximum distributable amount trigger has been reduced from 10.25% to 9.27%.

31-12-2020 Minimum required externa		Present
Solvency		
CRD IV/CRR		
Tier 1 capital	1,667	4,783
Total capital ratio	13.75%	39.4%
- Pillar 1	8%	
- Pillar 2 requirement	2.25%	
- Combined Buffer Requirement	3.50%	
Common Equity Tier 1 capital	1,243	4,050
Common Equity Tier 1 ratio	10.25%	33.4%
- Pillar 1	4.50%	
- Pillar 2 requirement	2.25%	
- Combined Buffer Requirement	3.50%	
Risk-weighted assets	N/A	12,127

31-12-2019	Minimum required externally	Present
Solvency		
CRD IV/CRR		
Tier 1 capital	1,697	4,692
Total capital ratio	13.83%	38.2%
- Pillar 1	8.00%	
- Pillar 2 requirement	2.25%	
- Combined Buffer Requirement	3.58%	
Common Equity Tier 1 capital	1,268	3,959
Common Equity Tier 1 ratio	10.33%	32.3%
- Pillar 1	4.50%	
- Pillar 2 requirement	2.25%	
- Combined Buffer Requirement	3.58%	
Risk-weighted assets	n/a	12,271

### **Regulatory framework**

On June 7, 2019 CRDV, CRR2, BRRD2 and SRMR2 were published in the official journal. CRR2 and CRDV amend the Capital Requirements Regulation (CRR) and Capital Requirements Directive (CRDIV), which provide the legal architecture for the prudential regulation of banks in the EU. A key element of CRR2 is that it lays down the non-risk based leverage ratio as a binding measure. All banks have to comply with a minimum leverage ratio of 3%7. The competent authority may require or recommend additional own funds to cover other risks of excessive leverage not already covered by this requirement. For public development sector institutions like BNG Bank CRR2 provides for a proportional treatment. These institutions are allowed to deduct exposures arising from assets that constitute claims on central governments, regional governments, local authorities or public sector entities in relation to public sector investments and promotional loans from the exposure measure.

BRRD2 and SRMR2 amend the Bank Recovery and Resolution Directive and the Single Resolution Mechanism Regulation, which constitute the EU legislative framework on bank resolution. Part of the framework is an additional loss-absorbing measure, MREL. MREL is an institution specific requirement determined by the Single Resolution Board (SRB). On February 27, 2019 the SRB concluded that simplified obligations apply to BNG Bank. This means that the preferred resolution strategy is normal insolvency law. This means that the MREL requirement coincides with the Pillar 1, Pillar 2 and combined buffer requirements. Hence, the MREL requirement does not pose an additional capital requirement.

Commonly referred to as Basel IV, the Basel Committee on Banking Supervision has issued in December 2017 post crisis reforms. Basel IV has to be transposed in European law, earliest expected timeline 2022/2023. The impact is therefore yet unclear and conditional on the transposition (i.e. potential changes made during this process). While introducing changes to the Standardised Approach, the framework aims specifically to enhance the reliability and comparability of risk-weighted capital ratios under the Internal Model approach. As such, the changes will impact the capital position of BNG Bank. The most important driver for the impact is whether the exclusion of several counterparties under CRR Article 382 will be maintained. The treatment of sovereign exposures is not part of Basel IV. Revisions to this approach are part of a discussion paper. As sovereign exposures form a significant part of BNG Bank's exposures, any changes to the treatment of these exposures will have a significant impact on BNG Bank's capital ratios. Developments in this area will be monitored closely.

The EU revised the securitisation regulation as per December 2017 by adopting Regulation (EU) 2017/2401 and Regulation (EU) 2017/2402. The new rules will apply to new transactions from 2019 onwards and one year later to existing transactions. The positive impact, given the more favourable risk weighting under the revised regulation, on BNG Bank's capital position will therefore result beginning 2020.

## Overview of RWA (EU OV1)

Table: EU OV1	31/12/2020	30/09/2020	31/12/2020	30/09/2020	
	RW	Ά	Minimum capital requirement		
Credit risk (excluding CCR)	9,174	9,224	734	738	
Of which standardised appoach (SA)	9,174	9,224	734	738	
Of which the foundation IRB (FIRB)	-	-	-	-	
Of which the advanced IRB (AIRB)	-	-	-	-	
Of which Equity IRB under the simple risk-weighted approach					
or the IMA	-	-	-	-	
Counterparty Credit Risk	1,202	1,217	96	97	
Of which mark-to-market	-	-	-	-	
Of which original exposure	-	-	-	-	
Of which the standardised appoach	249	330	20	26	
Of which internal model method (IMM)	-	-	-	-	
$Of which \ risk \ exposure \ amount for \ contributions \ to \ the \ default$					
fund of a CCP	0	0	0	0	
Of which CVA	953	887	76	71	
Settlement risk	-	-	-	-	
Securitisation exposures in banking book (after the cap)	846	875	68	70	
Of which IRB approach (RBA)	-	-	-	-	
Of which IRB Supervisory Formula Approach (SFA)	-	-	-	-	
Of which internal assessment approach (IAA)	-	-	-	-	
Of which Standardised approach (SA)	846	875	68	70	
Market risk	-	-	-	-	
Of which Standardised approach (SA)	-	-	-	-	
Of which IMA	-	-	-	-	
Large exposures	-	-	-	-	
Operational risk	905	1,005	72	80	
Of which basic indicator approach	-	-	-	-	
Of which standardised approach (SA)	905	1,005	72	80	
Of which advanced measurement approach	-	-	-	-	
Amounts below the thresholds for deduction (subject to 250%					
risk weight)	-	-	-	-	
Floor adjustment	-	_	-	_	
1 loor aajastinent					

Table: EU OV1	31/12/2019 RW	31/12/2019 30/09/2019 RWA		31/12/2019 30/09/2019 Minimum capital requirement		
Credit risk (excluding CCR)	9,100	9,176	728	734		
Of which standardised appoach (SA)	9,100	9,176	728	734		
Of which the foundation IRB (FIRB)	-	-	-	-		
Of which the advanced IRB (AIRB)	-	-	-	-		
Of which Equity IRB under the simple risk-weighted approach						
or the IMA	-	-	-	-		
Counterparty Credit Risk	1,128	1,525	90	122		
Of which mark-to-market	-	-				
Of which original exposure	-	-				
Of which the standardised appoach	140	267	11	22		
Of which internal model method (IMM)	-	-	-	-		
Of which risk exposure amount for contributions to the default						
fund of a CCP	-	3	-	-		
Of which CVA	988	1,255	79	100		
Settlement risk	-	-	-	-		
Securitisation exposures in banking book (after the cap)	1,038	1,060	83	85		
Of which IRB approach (RBA)	-	-	-	-		
Of which IRB Supervisory Formula Approach (SFA)	-	-	-	-		
Of which internal assessment approach (IAA)	-	-	-	-		
Of which Standardised approach (SA)	1,038	1,060	83	85		
Market risk	-	103	-	8		
Of which Standardised approach (SA)	-	103	-	8		
Of which IMA	-	-	-	-		
Large exposures	-	-	-	-		
Operational risk	1,005	1,017	80	81		
Of which basic indicator approach	-	-	-	-		
Of which standardised approach (SA)	1,005	1,017	80	81		
Of which advanced measurement approach	-	-	-	-		
Amounts below the thresholds for deduction (subject to 250%						
risk weight)	-	-	-	-		
Floor adjustment	-	-	-	-		
Total	12,271	12,881	981	1,030		

### **Countercyclical capital buffer (article 440 CRR)**

31-12-2020	General credit exposures	Securiti- sation exposure	Own fu	unds requirer	nents		
	Exposure value SA	Exposure value SA	Of which: general credit risk exposures	Of which: securitisation credit risk exposures	Total	Own funds requirements weight	Counter Cyclical Capital Buffer rate
Belgium	247	25	20	-	20	2.64%	0.00%
Germany	25	-	0	-	0	0.03%	0.00%
Spain	-	305	-	12	12	1.59%	0.00%
France	255	42	6	2	8	1.05%	0.00%
Great Britain	1,345	21	56	0	56	7.50%	0.00%
Ireland	2	42	0	2	2	0.28%	0.00%
Italy	-	13	-	0	0	0.06%	0.00%
Luxembourg	-	20	-	0	0	0.02%	0.25%
Netherlands	29,407	4,316	588	51	639	85.48%	0.00%
Portugal	123	5	10	0	10	1.35%	0.00%
Total	31,404	4,789	680	67	747	100.00%	
	General	Securiti-					
	credit	sation					
31-12-2019	exposures	exposure	Own fu	unds requirer	nents		
	Exposure value SA	Exposure value SA	Of which: general credit risk exposures	Of which: securitisation credit risk exposures	Total	Own funds requirements weight	Counter Cyclical Capital Buffer rate
Belgium	228	28	18	-	18	2.44%	0.00%
Spain	0	366	0	13	13	1.69%	0.00%
France	194	50	5	2	7	0.88%	0.25%
Great Britain	1,555	26	59	0	59	7.92%	1.00%
Ireland	-	48	-	2	2	0.26%	1.00%
Italy	-	19	-	0	0	0.04%	0.00%
Netherlands	24,658	4,400	572	65	637	85.39%	0.00%
Portugal	126	6	10	0	10	1.38%	0.00%
Total	26,761	4,943	664	82	746	100.00%	

Amount of institution-specific countercyclical capital buffer	31-12-2020	31-12-2019
Total risk exposure amount	12,127	12,271
Institution specific countercyclical buffer rate	0.000%	0.084%
Institution specific countercyclical buffer requirement	0	10

# CREDIT RISK AND CREDIT RISK MITIGATION (ARTICLES 442 AND 453 CCR)

In the application of article 442 and 453 CRR templates and tables in this section provide further quantitative insight into the credit risk profile of BNG Bank. This first starts with some different perspectives on the overall portfolio of BNG Bank before concentrating on the non-performing and forborne exposures, the credit risk mitigation measures that are applied and the effects on the RWA that should be considered for capitalisation purposes. However, first some more context is provided on the definitions applied with respect to the credit quality of assets.

### **Credit quality of assets (EUR CRB-A)**

#### Forborne exposures

Forbearance concerns credit agreements whose credit conditions have been amended in the debtor's favour as a result of the debtor's precarious financial position, so as to enable it to fulfil its obligations.

#### **Non-performing exposures**

BNG Bank applies the following criteria to designate exposures as non-performing or credit-impaired:

- BNG Bank considers that the obligor is unlikely to pay its credit obligations to the bank;
- The obligor is past due 90 days or more on any material credit obligation to the bank.

The bank employs the following indicators for 'Unlikeliness to pay':

- The obligor's source of income is considered insufficient to meet its payment obligations;
- There are indications that future cash flows are under pressure;
- The obligor's debt ratio has increased significantly;
- One or more covenants have been breached;
- BNG Bank has called upon a guarantee or seized collateral;
- Significant delayed payments to other creditors (recorded in a register);
- There is a crisis in the obligor's market sector, in which the obligor is considered to be a weak party;
- The obligor can no longer be active in its market sector as a result of its financial difficulties;
- Another creditor has filed for the obligor's bankruptcy.

The term 'past due' refers to the payment arrears commencing at the moment on which payment was contractually due.

An exposure classified as non-performing can once again be regarded as performing if all of the following conditions are met:

- The debtor once again complies with all contractual terms (no default); and
- The debtor's situation has improved to the extent that the debtor is able to meet payment obligations according to an existing or adjusted payment profile ('likely to pay'); and
- The debtor has no payment arrears exceeding 90 days.

#### Impairment of financial assets

BNG Bank assesses on a forward-looking basis the expected credit losses (ECL). Financial assets migrate through the following three stages based on the change in credit risk since initial recognition. When a modification of a financial asset results in the derecognition of the existing financial asset and the subsequent recognition of the modified asset, the date of modification shall be regarded as the date of initial recognition.

#### Stage 1: 12-month ECL

BNG Bank recognises an ECL allowance reflecting default events that are possible within the next 12 months for exposures without a significant increase in credit risk (SICR) since initial recognition.

#### Stage 2: lifetime ECL - not credit-impaired

BNG Bank recognises an ECL allowance reflecting default events that are possible during the remaining lifetime of the financial assets for exposures which have had a significant increase in credit risk since initial recognition, but which are not considered credit-impaired.

#### Stage 3: lifetime ECL - credit-impaired

BNG Bank assesses on an individual exposure level whether exposures are credit-impaired. This assessment is based on whether one or more events have occurred that have a detrimental impact on the estimated future cash flows of that asset.

Credit-impaired exposures are financial assets measured at amortised cost or fair value through other comprehensive income and off-balance sheet exposures for which a Stage 3 credit loss allowance was made. Exposures classified under Stage 1 or 2 are not classified as credit-impaired exposures.

## Total and average net amount of exposures (EU CRB-B)

		31-12-2020		31-12-2019
	Net value of	Average net	Net value of	Average net
	exposures at the	exposures of the	exposures at the	exposures of the
	end of the period	period	end of the period	period
Table: EU CRB-B				
Central governments or central banks	7,694	18,281	6,846	19,698
Regional governments or local authorities	36,362	36,990	36,989	36,393
Public sector entities	3,587	3,666	3,574	3,504
Multilateral Development Banks	144	329	434	590
International Organisations	1,417	619	493	582
Institutions	702	915	632	598
Corporates	64,739	64,897	63,563	62,798
- Of which: 0% risk weighted	53,494	<i>53,271</i>	52,111	51,741
Secured by mortgages on immovable				
property	117	125	138	145
Exposures in default	222	213	163	88
Items associated with particulary high risk	132	132	107	159
Covered bonds	1,385	1,444	1,389	1,353
Claims with a short-term credit assessment	-	-	-	-
Collective investments undertakings (CIU)	-	-	-	-
Equity	31	35	35	38
Securitisation positions	4,938	5,049	5,104	4,932
Other items	20,860	20,714	16,493	17,127
Total credit risk exposure (SA)	142,330	153,409	135,960	148,005
- Of which: Small & Medium Enterprises				
(SMEs)	14,369	14,407	14,144	14,017

## Geographical breakdown of exposures (EU CRB-C)

					Total
		Other EU		Rest of the	exposure
31-12-2020	Netherlands	countries	Rest of Europe	world	value
Table: CRB-C					
Central governments or central banks	3,807	3,865	-	22	7,694
Regional governments or local					
authorities	36,006	356	-	-	36,362
Public sector entities	2,633	914	40	-	3,587
Multilateral Development Banks	-	144	-	-	144
International Organisations	-	1,417	-	-	1,417
Institutions	142	557	1	2	702
Corporates	60,822	757	1,733	1,427	64,739
Of which: 0% risk weighted	<i>51,231</i>	48	788	1,427	53,494
Secured by mortgages on immovable					
property	117	-	-	-	117
Exposures in default	222	-	-	-	222
Items associated with particularly high					
risk	132	-	-	-	132
Covered bonds	957	25	403	-	1,385
Claims with a short-term credit					
assessment	-	-	-	-	-
Collective investments undertakings					
(CIU)	-	-	-	-	-
Equity	31	-	-	-	31
Securitisation positions	4,398	519	21	-	4,938
Other items	20,860	-	-	-	20,860
Total credit risk exposure (SA)	130,127	8,554	2,198	1,451	142,330

		OIL FIL		D . (.)	Total
31-12-2019	Netherlands	Other EU countries	Rest of Europe	Rest of the world	exposure value
Table: CRB-C					
Central governments or central banks	3,141	3,682	-	23	6,846
Regional governments or local					
authorities	36,493	496	-	-	36,989
Public sector entities	2,652	831	91	-	3,574
Multilateral Development Banks	-	434	-	-	434
International Organisations	-	493	-	-	493
Institutions	89	540	1	2	632
Corporates	61,117	674	1,772	-	63,563
Of which: 0% risk weighted	51,269	133	709	0	52,111
Secured by mortgages on immovable					
property	138	-	-	-	138
Exposures in default	163	-	-	-	163
Items associated with particularly high					
risk	107	-	-	-	107
Covered bonds	759	26	604	-	1,389
Claims with a short-term credit					
assessment	-	-	-	-	0
Collective investments undertakings					
(CIU)	-	-	-	-	0
Equity	35	-	-	-	35
Securitisation positions	4,492	586	26	-	5,104
Other items	16,493	-	-	-	16,493
Total credit risk exposure (SA)	125,679	7,762	2,494	25	135,960

# Concentration of exposures by industry or counterparty types (EU CRB-D)

			Other	Non-			Total
	General	Credit	financial	financial			exposure
31-12-2020	governments	institutions	corporations	corporations	Households	Other	value
Table: EU CRB-D							
Central governments or							
central banks	7,694	-	-	-	-	-	7,694
Regional governments or loca	I						
authorities	36,362	-	-	-	-	-	36,362
Public sector entities	3,587	-	-	-	-	-	3,587
Multilateral Development							
Banks	-	144	-	-	-	-	144
International Organisations	1,417	-	-	-	-	-	1,417
Institutions	-	702	-	-	-	-	702
Corporates	293	-	4,370	56,365	3,711	-	64,739
Of which: 0% risk weighted	<i>75</i>	-	2,984	47,733	2,702	-	53,494
Secured by mortgages on							
immovable property	-	-	117	-	-	-	117
Exposures in default	-	-	-	192	30	-	222
Items associated with							
particularly high risk	107	-	-	-	25	-	132
Covered bonds	25	1,360	-	-	-	-	1,385
Claims with a short-term							
credit assessment	-	-	-	-	-	-	-
Collective investments							
undertakings (CIU)	-	-	-	-	-	-	-
Equity	-	3	28	-	-	-	31
Securitisation positions	-	-	4,938	-	-	-	4,938
Other items	-	1	-	-	-	20,859	20,860
Total credit risk exposure							
(SA)	49,485	2,210	9,453	56,557	3,766	20,859	142,330

31-12-2019	General	Credit		financial	ahalda	Other	Total exposure value
	governments	institutions	corporations	corporations	Households	Other	value
Table: EU CRB-D							
Central governments or							
central banks	6,846	-	-	-	-	-	6,846
Regional governments or loca	I						
authorities	36,989	-	-	-	-	-	36,989
Public sector entities	3,574	-	-	-	-	-	3,574
Multilateral Development							
Banks	-	434	-	-	-	-	434
International Organisations	493	-	-	-	-	-	493
Institutions	-	632	-	-	-	-	632
Corporates	335	-	1,833	57,498	3,897	-	63,563
Of which: 0% risk weighted	81	-	807	48,372	2,851	-	52,111
Secured by mortgages on							
immovable property	-	-	138	-	-	-	138
Exposures in default	-	-	0	131	32	-	163
Items associated with							
particularly high risk	-	-	-	-	-	107	107
Covered bonds	-	1363	26	-	-	-	1,389
Claims with a short-term							
credit assessment	-	-	-	-	-	-	0
Collective investments							
undertakings (CIU)	-	-	-	-	-	-	0
Equity	-	-	32	-	-	3	35
Securitisation positions	-	-	5104	-	-	-	5,104
Other items	-	-	-	-	-	16,493	16,493
Total credit risk exposure							
(SA)	48,237	2,429	7,133	57,629	3,929	16,603	135,960

## Maturity of exposures (EU CRB-E)

31-12-2020 Net exposure value

			> 1 year <= 5		No stated		
	On demand	<= 1 year	years	> 5 years	maturity	Total	
Table: EU CRB-E							
Central governments or central							
banks	0	2,326	1,134	4,234	-	7,694	
Regional governments or local							
authorities	508	3,305	5,887	23,290	-	32,990	
Public sector entities	4	150	1,017	1,965	-	3,136	
Multilateral Development Banks	-	-	66	78	-	144	
International Organisations	-	-	438	979	-	1,417	
Institutions	0	4	418	280	-	702	
Corporates	400	2,932	7,811	46,682	-	57,825	
Of which: 0% risk weighted	167	2,235	6,763	40,764	-	49,929	
Secured by mortgages on immovable							
property	-	-	-	-	117	117	
Exposures in default	14	29	45	132	0	220	
Items associated with particularly							
high risk	-	-	-	-	132	132	
Covered bonds	-	147	1,040	198	-	1,385	
Claims with a short-term credit							
assessment	-	-	-	-	-	-	
Collective investments undertakings							
(CIU)	-	-	-	-	-	-	
Equity	-	3	-	-	28	31	
Securitisation positions	-	144	42	4,752	-	4,938	
Other items	-	102	1,612	19,145	1	20,860	
Total credit risk exposure (SA)	926	9,142	19,510	101,735	278	131,591	

31-12-2019 Net exposure value

			> 1 year <= 5		No stated	
	On demand	<= 1 year	years	> 5 years	maturity	Total
Table: EU CRB-E						
Central governments or central						
banks	0	1272	1,930	3,644	-	6,846
Regional governments or local						
authorities	541	4,895	6,304	22,231	-	33,971
Public sector entities	4	91	1037	1,870	0	3,002
Multilateral Development Banks	-	-	216	218	-	434
International Organisations	-	-	204	289	-	493
Institutions	0	50	346	236	0	632
Corporates	501	2,579	8,389	44,912	-	56,381
Of which: 0% risk weighted	195	1,970	7,163	39,336	-	48,664
Secured by mortgages on immovable						
property	-	-	-	-	138	138
Exposures in default	6	35	48	45	0	134
Items associated with particularly						
high risk	-	-	-	-	107	107
Covered bonds	-	220	966	203	-	1389
Claims with a short-term credit						
assessment	-	-	-	-	-	0
Collective investments undertakings						
(CIU)	-	-	-	-	-	0
Equity	-	3	-	-	31	34
Securitisation positions	-	-	50	4,888	-	4,938
Other items	-	107	1,710	14,676	-	16,493
Total credit risk exposure (SA)	1,052	9,252	21,200	93,212	276	124,992

The exposure values in this table are exclusive of off-balance exposure in contrast to the other tables. The total credit exposure is therefore lower than in the other tables.

# Credit quality of exposures by exposure classes and instruments (EU CR1-A)

31-12-2020 Gross carrying values of:

31 12 2020	G. 055 cu	Jing raides	0				
	Defaulted exposures	Non-defaulted exposures	Specific credit risk adjustment	General credit risk adjustment	Accumulated write-offs	Credit risk adjustment charges of the period	Net values
Table: EU CR1-A							
Central governments or central banks	-	7,694	-	-	-	-	7,694
Regional governments or local authorities	-	36,363	1	-	-	-	36,362
Public sector entities	-	3,589	2	-	-	-	3,587
Multilateral Development Banks	-	144	-	-	-	-	144
International Organisations	-	1,417	-	-	-	-	1,417
Institutions	-	702	-	-	-	-	702
Corporates	397	64,777	213	-	-	-	64,961
- Of which: 0% risk weighted	-	53,494	-	-	-	-	53,494
- Of which: SMEs	-	14,096	3	-	-	-	14,093
Secured by mortgages on immovable property	-	117	-	-	-	-	117
Exposures in default	397	-	<i>175</i>	-	-	-	222
Items associated with particularly high risk	-	132	-	-	-	-	132
Covered bonds	-	1,385	-	-	-	-	1,385
Claims with a short-term credit assessment	-	-	-	-	-	-	-
Collective investments undertakings (CIU)	-	-	-	-	-	-	-
Equity	-	31	-	-	-	-	31
Securitisation positions	-	4,943	5	-	-	-	4,938
Other items	-	20,860	-	-	-	-	20,860
Total credit risk exposure (SA)	397	142,154	221	-	-	0	142,330
Of which: Loans and advances	394	89,216	208		-	-	89,402
Of which: Debt securities	-	18,590	6			-	18,584
Of which: Off-balance sheet exposures	1	10,742	4				10,739

#### 31-12-2019

#### Gross carrying values of:

	Defaulted exposures	Non-defaulted exposures	Specific credit risk adjustment	General credit risk adjustment	Accumulated write-offs	Credit risk adjustment charges of the period	Net values
Table: EU CR1-A							
Central governments or central banks	-	6,846	0	-			6,846
Regional governments or local authorities	-	36,990	1	-	-	-	36,989
Public sector entities	-	3,574	0	-	-	-	3,574
Multilateral Development Banks	-	434	-	-	-	-	434
International Organisations	-	493	-	-	-	-	493
Institutions	-	632	0	-	-	-	632
Corporates	322	63,601	197	-	-	-119	63,726
- Of which: 0% risk weighted	-	52,111	-	-	-	-	52,111
- Of which: SMEs	-	14,146	17	-	-	-	14,129
Secured by mortgages on immovable property	-	138	-	-	-	-	138
Exposures in default	322	-	158	-	-	-	164
Items associated with particularly high risk	-	107	0	-	-	-	107
Covered bonds	-	1389	0	-	-	-	1,389
Claims with a short-term credit assessment	-	-	-	-	-	-	0
Collective investments undertakings (CIU)	-	-	-	-	-	-	0
Equity	-	35	-	-	-	-	35
Securitisation positions	-	5,110	6	-	-	-	5,104
Other items	-	16,493	-	-	5	-2	16,493
Total credit risk exposure (SA)	322	135,842	204	-	5	(121)	135,960
Of which: Loans and advances	288	88,519	190	-	5	-121	88,617
Of which: Debt securities	0	18,065	7	-	-	-	18,058
Of which: Off-balance sheet exposures	32	10,943	5	-	-	-	10,970

# Credit quality of exposures by industry or counterparty types (EU CR1-B)

31-12-2020 Gross carrying values of
-------------------------------------

Table: EU CR1-	Defaulted	Non- defaulted	Specific credit risk	General credit risk	Accumulated	Credit risk adjustment charges of	
В	exposures	exposures	adjustment	adjustment	write-offs	the period	Net values
General							
governments	-	49,492	7	-	-	-	49,485
Credit							
institutions	-	2,209	-	-	-	-	2,209
Other financial							
corporations	2	9,460	8	-	-	-	9,454
Non-financial							
corporations	365	56,388	197	-	-	-	56,556
Households	30	3,745	9	-	-	-	3,766
Other	-	20,860	-	-	-	-	20,860
Total	397	142,154	221	-	-	-	142,330

31-12-2019 Gros	s carrying values of:
-----------------	-----------------------

						Credit risk	
		Non-	Specific	General		adjustment	
Table: EU CR1-	Defaulted	defaulted	credit risk	credit risk	Accumulated	charges of	
В	exposures	exposures	adjustment	adjustment	write-offs	the period	Net values
General							
governments	-	48,238	1	-	-	0	48,236
Credit							
institutions	-	2,429	0	-	-	0	2,429
Other financial							
corporations	2	7,140	9	-	-	-1	7,133
Non-financial							
corporations	288	57,530	188	-	-	-118	57,630
Households	32	3,902	6	-	5	-2	3,928
Other	-	16,603	0	-	-	-	16,603
Total	322	135,842	204	-	5	-121	135,959

### Credit quality of exposures by geography (EU CR1-C)

31-12-2020 Gross carrying values of:

	Defaulted exposures	Non-defaulted exposures	Specific credit risk adjustment	General credit risk adjustment	Accumulated write-offs	Credit risk adjustment charges of the period	Net values
Table: EU							
CR1-C							
Netherlands	397	129,941	210	-	-	-	130,128
Other							
Euro							
countries	-	8,561	7	-	-	-	8,554
Rest of							
Europe	-	2,202	4	-	-	-	2,198
Rest of							
the world	-	1,450	-	-	-	-	1,450
Total	397	142,154	221	-	-	-	142,330

#### 31-12-2019 Gross carrying values of:

	Defaulted exposures	Non-defaulted exposures	Specific credit risk adjustment	General credit risk adjustment	Accumulated write-offs	Credit risk adjustment charges of the period	Net values
Table: EU							
CR1-C							
Netherlands	322	125,552	194	-	-5	-121	125,680
Other							
Euro							
countries	-	7,770	8	-	-	-	7,762
Rest of							
Europe	-	2,496	2	-	-	-	2,494
Rest of							
the world	-	24	0	-	-	-	24
Total	322	135,842	204	0	-5	-121	135,960

# **Credit quality of forborne exposures**

#### 31-12-2020

		g amount/nomir vith forbearance		exposures	accumulated n in fair value du	d impairment, egative changes ue to credit risk ovisions	Collateral received and financial guarantees received on forborne exposures		
		Non-perform forborne	<u> </u>	I	On	On non-		eral and s received exposures measures	
	Performing forborne		Of which: defaulted	Of which: impaired	performing forborne exposures	performing forborne exposures		Of which: collateral and financial guarantees received on non-performing exposures with for-bearance measures	
Loans and advances of which:	222	170	170	170	-8	-33	30	•	
- Central banks	_	_	_	_	_	_	_	_	
- General governments	_	-	-	-	-	-	-	-	
- Credit institutions	-	-	-	-	-	-	-	-	
- Other financial corporations	17	-	-	-	0	-	-	-	
- Non-financial corporations	130	170	170	170	-6	-33	30		
- Households	74	-	-	-	-2	-	-	-	
Debt Securities		-	-	-	-	-	-		
Loan commitments given	13	-	-	-	0	-	-	-	
Total	235	170	170	170	-8	-33	30	-	

#### 31-12-2019

Total	356	5	5	5	-24	-2	30		
Loan commitments given	15	-	-	-	•	•	-		
Debt Securities	-	-	-	-	-	-	-		
- Households	51	-	-	-	-2	-	-		
- Non-financial corporations	290	5	5	5	-22	-2	30		
- Other financial corporations	-	-	-	-	-	-	-		
- Credit institutions	-	-	-	-	-	-	-		
- General governments	-	-	-	-	-	-	-		
- Central banks	-	-	-	-	-	-	-		
of which:									
Loans and advances	341	5	5	5	-24	-2	30		
	Performing forborne	Non-perform forborne	Of which: defaulted	Of which: impaired	On performing forborne exposures	On non- performing forborne exposures		Of which: collateral and financial guarantees received on non-performing exposures with for-bearance measures	
	, ,	g amount/nomir with forbearance	e measures	exposures	accumulated n in fair value du	d impairment, egative changes ue to credit risk ovisions	Collateral received and financia guarantees received on forborne exposures		

### Credit quality of non-performing exposures by past due days

31-12-2020

Gross carrying amount / nominal amount

	Performi	ng exposures		Non-	Non-performing exposures										
					Unlikely	to pay tl	hat are:								
		Not past due or past due ≤ 30 days	Past due > 30 ≤ 90 days		not past due or are past due ≤ 90 days	Past due > 90 ≤ 180 days	Past due > 180 ≤ 1 year	Past due > 1 ≤ 2 years	Past due > 2 ≤ 5 years	Past due > 5 ≤ 7 years	Past due > 7 years	Of which: defaulted			
Loans and advances	109,233	109,233	-	396	394	-	-	2	-	-	-	396			
Central banks	-	-	-	-	-	-	-	-	-	-	-	-			
General governments	33,871	33,871	-	-	-	-	-	-	-	-	-	-			
Credit institutions Other financial	19,525	19,525	-	-	-	-	-	-	-	-	-	-			
corporations	1,855	1,855	-	-	-	-	-	-	-	-	-	-			
Non-financial															
corporations	50,582	50,582	-	365	364	-	-	2	-	-	-	365			
of which SMEs	12,693	12,693	-	137	137	-	-	-	-	-	-	137			
Households	3,400	3,400	-	30	30	-	-	-	-	-	-	30			
Debt Securities	17,625	17,625	-	-	-	-	-	-	-	-	-	-			
Central banks	-	-	-	-	-	-	-	-	-	-	-	-			
General governments	9,220	9,220	-	-	-	-	-	-	-	-	-	-			
Credit institutions Other financial	2,009	2,009	-	-	-	-	-	-	-	-	-	-			
corporations Non-financial	5,217	5,217	-	-	-	-	-	-	-	-	-	-			
corporations	1,179	1,179	_	_	_	_	_	_	_	_	_	_			
Off-balance-sheet	.,.,,	.,													
exposures	10,886			1								1			
Central banks	-			_								-			
General governments	3,848			_								-			
Credit institutions	-			_								-			
Other financial															
corporations	2,081			_								-			
Non-financial	,														
corporations	4,521			1								1			
Households	436			-								-			
Total	137,743	126,858	-	397	394	-	-	2	-	-	-	397			

31-12-2019

#### Gross carrying amount / nominal amount

	Performir	ng exposures		Non-	performin	g expos	sures					
					Unlikely	to pay t	hat are:					
		Not past due or past due ≤ 30 days	Past due > 30 ≤ 90 days		not past due or are past due ≤ 90 days	Past due > 90 ≤ 180 days	Past due > 180 ≤ 1 year	Past due > 1 ≤ 2 years	Past due > 2 ≤ 5 years	Past due > 5 ≤ 7 years	Past due > 7 years	Of which: defaulted
Loans and advances	104,864	104,864	-	290	288	-	-	2	-	-	-	290
Central banks	1,272	1,272	-	-	-	-	-	-	-	-	-	-
General governments	34,726	34,726	-	-	-	-	-	-	-	-	-	-
Credit institutions	14,717	14,717	-	-	-	-	-	-	-	-	-	-
Other financial												
corporations	933	933	-	2	-	-	-	2	-	-	-	2
Non-financial												
corporations	49,629	49,629	-	256	256	-	-	-	-	-	-	256
of which SMEs	12,306	12,306	-	13	13	-	-	-	-	-	-	13
Households	3,587	3,587	-	32	32	-	-	-	-	-	-	32
Debt Securities	18,066	18,066	-	_	-	-	-	-	-	-	-	-
Central banks	-	-	-	-	-	-	-	-	-	-	-	-
General governments	8,598	8,598	-	-	-	-	-	-	-	-	-	-
Credit institutions	2,364	2,364	-	-	-	-	-	-	-	-	-	-
Other financial												
corporations	5,310	5,310	-	-	-	-	-	-	-	-	-	-
Non-financial												
corporations	1,794	1,794	-	-	-	-	-	-	-	-	-	-
Off-balance-sheet												
exposures	10,943			32								32
Central banks	-			-								-
General governments	3,600			-								-
Credit institutions	-			-								-
Other financial												
corporations	713			-								-
Non-financial												
corporations	6,177			32								32
Households	453			-								-
Total	133,873	122,930	-	322	288	-	-	2	-	-	-	322

## Performing and non-performing exposures and related provisions

31-12-2020	G	iross carry	ying amoi	unt/nomi	nal amou	nt			mpairmer fair value provi					Collate and financi guarar receive	ial ntees
	Perfori exposu	0		Non- perforr exposu	0		a im	ming expo ccumulate pairment provision	ed and	a ii accun change to c	n-perform exposures ccumulate mpairmen nulated ne es in fair va credit risk provisions	ed it, egative ilue due and	Accumu- lated partial write- off		p0
		Of which: Stage 1	Of which: stage 2		Of which: stage 2	Of which: stage 3		Of which: Stage 1	Of which: stage 2		Of which: stage 2	Of which: stage 3		On performing exposures	On non-performing exposures
Loans and advances	109,233	107,616	1,617	396	-	396	-35	-9	-25	-175	-	-175	-	49,790	38
Central banks	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
General governments	33,871	33,826	45	-	-	-	-4	-2	-3	-	-	-	-	591	-
Credit institutions	19,525	19,525	-	-	-	-	0	0	-	-	-	-	-	88	-
Other financial corporations	1,855	1,759	96	-	-	-	-1	0	0	-	-	-	-	447	-
Non-financial corporations	50,582	49,759	823	365	-	365	-22	-6	-16	-175	-	-175	-	46,074	7
of which SMEs	12,693	12,590	103	137	-	137	-2	0	-2	-22	-	-22	-	12,593	7
Households	3,400	2,747	654	30	-	30	-8	-1	-6	-	-	-	-	2,590	30
Debt Securities	17,625	17,391	233	-	-	-	-6	-1	-5	-	-	-	-	1,772	-
Central banks	0.220	0.150		-	-	-	-1		- -1	-	-	-	-	-	-
General governments Credit institutions	9,220 2,009	9,159 2,009	61 0	-	-	-	-1	0	-1	-	-	-	-	538 351	-
Other financial corporations	5,217	5.118	99	_	_	-	-5	0	-5	_	-	_	-	883	-
Non-financial corporations	1,179	1,106	73				0	0	0		_	_		- 000	_
Off-balance-sheet	1,175	1,100	15				O	O	U						
exposures	10,886	10,753	132	1		1	-4	-1	-2	_			_	_	_
Central banks		-			-		0	-	0	-	-	_	-	-	-
General governments	3,848	3,848	0	-	-	_	0	-	-	-	-	_	-	-	-
Credit institutions	-	-	-	-	-	-	-	-	_	-	-	-	-	-	-
Other financial corporations	2,081	2,073	8	-	-	-	0	0	0	-	-	-	-	-	-
Non-financial corporations	4,521	4,456	65	1	-	1	-2	-1	-1	-	-	-	-	-	-
Households	436	376	59	-	-	-	-2	-	-2	-	-	-	-	-	-
Total	_														38

31-12-2019	G	Gross carry	ying amou	unt/nomi	Accumulated impairment, accumulated negative changes in fair value due to credit risk and provisions									Collate and financi guaran receive	ial itees
	Perfor exposi	U		Non- perforr exposu	U		a imį	ming expo ccumulate pairment provision	ed and	a i accun change to c	on-perforn exposures ccumulate mpairmer nulated no es in fair va credit risk provision	ed nt, egative alue due and	Accumu- lated partial write- off		<b>D</b> 0
		Of which: Stage 1	Of which: stage 2		Of which: stage 2	Of which: stage 3		Of which: Stage 1	Of which: stage 2		Of which: stage 2	Of which: stage 3		On performing exposures	On non-performing exposures
Loans and advances	104,864	103,424	1,440	290		290	-37	-5	-31	-156		-156	-	-	174
Central banks	1,272	1,272	-	-	-	-	-	-	-	-	-	-	-	-	-
General governments	34,726	34,673	53	-	-	-	-1	0	0	-	-	-	-	-	-
Credit institutions	14,717	14,717	-	-	-	-	-	0	0	-	-	-	-	-	-
Other financial corporations	933	783	150	2	-	2	-	-	-	-2	-	-2	-	-	142
Non-financial corporations	49,629	48,967	662	256	-	256	-30	-4	-26	-154	-	-154	-	-	-
of which SMEs	12,306	12,165	141	13	-	13	-16	0	-16	-	-	-	-	-	-
Households	3,587	3,012	575	32	-	32	-6	-1	-5	-	-	-	-	-	32
Debt Securities	18,066	17,904	162	-	-	-	-7	-1	-6	-	-	-	-	-	-
Central banks	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
General governments	8,598	8,542	57	-	-	-	-1	-1	0	-	-	-	-	-	-
Credit institutions	2,364	2,363	-	-	-	-	0	0	-	-	-	-	-	-	-
Other financial corporations	5,310	5,205	105	-	-	-	-6	0	-6	-	-	-	-	-	-
Non-financial corporations	1,794	1,794	-	-	-	-	0	0	-	-	-	-	-	-	-
Off-balance-sheet	10.043	10 704	220			22	_	_		•		•			
exposures	10,943	10,704	239	32	-	32	-2	-2	-1	-2	-	-2		-	-
Central banks	2.000	2 505	5	-	-	-	0	0	0	-	-	-		-	-
General governments	3,600	3,595	-	-	-	-	Ü	U	U	-	-	-		-	-
Credit institutions	712		140	-	-	-	-	-	-	-	-	-		-	-
Other financial corporations	713	573	140	-	-	-	0	0	0	-	-	-		-	-
Non-financial corporations Households	6,177 453	6,123 413	54 40	32	-	32	-2 0	-2 0	-1 0	-2	-	-2		-	-
					-	-					-				
Total	133,873	132,032	1,841	322	-	322	-46	-8	-38	-158	-	-158	-	-	174

31-12-2020 31-12-2019

	Collateral obtaine	ed by taking possession	Collateral obtained by t	aking possession
				Accumulated
	Value at initial	Accumulated negative	Value at initial	negative
	recognition	changes	recognition	changes
Property, plant and equipment				
(PP&E)	-	-	-	-
Other than PP&E, of which:				
- Residential immovable property	-	-	-	-
- Commercial immovable				
property	-	-	-	-
- Movable property (auto,				
shipping, etc.)	-	-	-	-
- Equity and debt instruments	-	-	-	-
- Other	-	-	-	-
Total	-	-	-	-

### Moratoria

31-12-2020	1		Gro	ss carry	ing a	amount		Accumulated impairment, accumulated negative changes in fair value due to credit risk					Gross carrying amount Inflows to		
			Perform	ning	No	on perfo	rming			Perform	iing	N	on perfo	orming	non- performing exposures
Loans and advances subject to moratorium			Of which: exposures with forbearance measures	Of which: Instruments with significant increase in credit risk since initial recognition but not credit-impaired (Stage 2)		Of which: exposures with forbearance measures	Of which: Unlikely to pay that are not past-due or past-due <= 90 days			Of which: exposures with forbearance measures	Of which: Instruments with significant increase in credit risk since initial recognition but not credit-impaired (Stage 2)		Of which: exposures with forbearance measures	Of which: Unlikely to pay that are not past-due or past-due e=90 days	
	7	7	-	6	-	-	-	-	-	-	-	-	-	-	-
of which: Households	5	5	-	4	-	-	-	-	-	-	-	-	-	-	-
of which: Collateralised															
by residential	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
immovable property of which: Non-financial corporations of which: Small and	0	0	-	-	-	-	-	-	-	-	-	-	-	-	-
Medium-sized Enterprises of which: Collateralised	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
by commercial immovable property	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

31-12-2020	Gross carryii	ng amount	Maximum amount of the guarantee that can be considered	Gross carrying amount
		of which: forborne	Public guarantees received	Inflows to non-performing exposures
Newly originated loans and advances subject				
to public guarantee schemes	-	-	-	-
of which: Households	-	-	-	-
- of which: Collateralised by residential				
immovable property	-	-	-	-
of which: Non-financial corporations	-	-	-	-
- of which: Small and Medium-sized Enterprises	-	-	-	-
- of which: Collateralised by commercial				
immovable property	-	-	-	-

31-12-2020	Number of obligors			Gross ca	rrying am	ount			
						Residual m	aturity of	moratoria	
			Of which: legislative moratoria	Of which: expired	<= 3 months	> 3 months <= 6 months	> 6 months <= 9 months	> 9 months <= 12 months	>1 year
Loans and advances for which moratorium was offered	31	20							
Loans and advances subject to moratorium (granted)	11	7	-	-	0	0	0	0	7
of which: Households		5	-	-	0	0	0	0	5
<ul> <li>of which: Collateralised by residential immovable property</li> </ul>		-	-	-	-	-	-	-	-
of which: Non-financial corporations		0	-	-	-	0	-	-	0
<ul> <li>of which: Small and Medium- sized Enterprises</li> </ul>		-	-	-	-	-	-	-	-
<ul> <li>of which: Collateralised by commercial immovable property</li> </ul>		-	-	-	-	-	-	-	-

# Changes in stock of general and specific credit risk adjustments (EU CR2-A)

	Accumulated specific credit risk
Table: EU CR2-A	adjustment
Closing balance 2018	57
Recoveries on credit risk adjustments recorded directly to the statement of profit or loss	-
Specific credit risk adjustments directly recorded to the statement of profit or loss	-
Opening balance 2019	57
Increases due to amounts set aside for estimated loan losses during the period	6
Decreases due to amounts reversed for estimated loan losses during the period	-6
Decreases due to amounts taken against accumulated credit risk adjustments	-
Transfers between credit risk adjustments	153
Impact of exchange rate differences	-
Business combinations, including acquisitions and disposals of subsidiaries	-
Other adjustments	-5
Opening balance 2020	205
Increases due to amounts set aside for estimated loan losses during the period	11
Decreases due to amounts reversed for estimated loan losses during the period	-12
Decreases due to amounts taken against accumulated credit risk adjustments	-
Transfers between credit risk adjustments	16
Impact of exchange rate differences	-
Business combinations, including acquisitions and disposals of subsidiaries	-
Other adjustments	-
Closing balance 2020	220
$Recoveries \ on \ credit \ risk \ adjust ments \ recorded \ directly \ to \ the \ statement \ of \ profit \ or \ loss$	-
Specific credit risk adjustments directly recorded to the statement of profit or loss	-

BNG Bank does not asses credit risk adjustments on a general level, therefore this table only consists of accumulated specific credit risk adjustments.

BNG Bank assesses on a forward-looking basis the expected credit losses (ECL) for the following categories of financial assets that are not measured at fair value through the income statement:

- debt instruments measured at amortised cost; and
- debt instruments measured at fair value through other comprehensive income; and
- loan commitments; and
- financial guarantee contracts.

Financial assets migrate through the three stages defined in IFRS 9 based on the change in credit risk since initial recognition. When a modification of a financial asset results in the derecognition of the existing financial asset and the subsequent recognition of the modified asset, the date of modification shall be regarded as the date of initial recognition.

# Changes in stock of defaulted and impaired loans and debt securities (EU CR2-B)

Table: EU CR2-B	Gross carrying value defaulted exposures
Closing balance 2018	57
Loans and debt securities that have defaulted or impaired since the last reporting date	301
Returned to non-defaulted status	-22
Amounts written off	-5
Other changes	-10
Closing balance 2019	321
Loans and debt securities that have defaulted or impaired since the last reporting date	125
Returned to non-defaulted status	-
Amounts written off	-
Other changes	-49
Closing balance 2020	397

The EUR 125 mln above mainly relates to entities that have been reclassified as non performing in 2020.

## **Credit risk mitigation techniques – overview (EU CR3)**

31-12-2020	Exposures unsecured - carrying amount	Exposures to be secured	Exposured secured by collateral	Exposures secured by guarantees	Exposures secured by credit derivatives
Table: EU CR3					
Total loans and					
advances	89,400	49,875	79	49,796	-
Total debt securities	13,646	1,702	-	1,702	-
Total securitisation	4,938	-	-	-	-
Total off balance sheet					
exposure	13,307	5,066	1,429	3,637	-
Total other exposure	21,038	514	351	163	-
Total exposures	142,330	57,157	1,859	55,298	-
Of which defaulted	222	-	-	-	-

	Exposures unsecured -	Exposures to be	Exposured secured by	Exposures secured by	Exposures secured by credit
31-12-2019	carrying amount	secured	collateral	guarantees	derivatives
Table: EU CR3					
Total loans and					
advances	88,617	48,613	88	48,525	-
Total debt securities	13,120	6,348	-	6,349	-
Total securitisation	5,104	-	-	-	-
Total off balance sheet					
exposure	10,803	3,929	5	3,924	-
Total other exposure	18,316	297	8	289	-
Total exposures	135,960	59,187	101	59,087	-
Of which defaulted	163	-	-	-	-

# Standardised approach – credit risk exposure and credit risk mitigation (CRM) effects (EU CR4)

Guarantees provided by governments, WSW and WfZ are an important part in the determination of the credit risk profile of BNG Bank. Below tables show the effect of all CRM techniques. RWA density provides a synthetic metric on the portfolio that remains after the application of CRM techniques.

31-12-2020	Exposures bef	fore CCF and				
	CR	M	<b>Exposures post</b>	CCF and CRM	RWAs and R	WA density
	On-balance	Off-balance	On-balance	Off-balance	RWA	RWA density
Tabel: EU CR-4						
Central governments or central						
banks	7,694	-	54,740	473	-	-
Regional governments or local						
authorities	32,990	3,371	36,938	772	60	0%
Public sector entities	3,136	451	2,906	28	378	13%
Multilateral Development Banks	144	-	144	-	-	-
International Organisations	1,417	-	1,417	-	-	-
Institutions	702	-	93	-	19	20%
Corporates	57,825	6,915	7,825	310	7,284	90%
Secured by mortgages on						
immovable property	117	-	34	-	34	100%
Exposures in default	220	2	183	-	183	100%
Items associated with						
particularly high risk	132	-	34	-	51	150%
Covered bonds	1,385	-	1,385	-	139	10%
Claims with a short-term credit						
assessment	-	-	-	-	-	-
Collective investments						
undertakings (CIU)	-	-	-	-	-	-
Equity	31	-	31	-	31	100%
Securitisation positions	4,794	144	4,728	144	846	17%
Other items	20,860	-	20,860	-	44	0%
Total	131,447	10,883	131,318	1,726	9,067	7%

31-12-2019	Exposures be	fore CCF and				
	CR	М	Exposures post	CCF and CRM	RWAs and F	RWA density
	On-balance	Off-balance	On-balance	Off-balance	RWA	RWA density
Tabel: EU CR-4						
Central governments or central						
banks	6,845	1	52,310	510	-	-
Regional governments or local						
authorities	33,971	3,018	38,047	450	64	0%
Public sector entities	3,001	573	2,810	8	368	13%
Multilateral Development Banks	434	-	434	-	-	-
International Organisations	493	-	493	-	-	-
Institutions	632	-	94	-	19	20%
Corporates	56,381	7,182	7,835	229	7,255	90%
Secured by mortgages on						
immovable property	138	-	40	-	40	100%
Exposures in default	134	29	83	-	83	100%
Items associated with						
particularly high risk	107	-	19	-	28	150%
Covered bonds	1,389	-	1,389	-	139	0.1
Claims with a short-term credit						
assessment	-	-	-	-	-	-
Collective investments						
undertakings (CIU)	-	-	-	-	-	-
Equity	35	-	35	-	35	100%
Securitisation positions	4,938	167	4,869	74	1,038	21%
Other items	16,493	-	16,493	-	31	0%
Total	124,991	10,969	124,951	1,271	9,100	7%

## Standardised approach (EU CR5)

31-12-2020	Risk w	eight o	of:									
											Total	Of
								>		De-	exposure	which:
	0%	2%	10%	20%	35%	50%	100% 1	100%01	thers d	ucted	value	unrated
Table: EU CR5												
Central governments or central												
banks	55,213	-	-	-	-	-	-	-	-	-	55,213	55,213
Regional governments or local												
authorities	37,526	-	-	155	-	-	29	-	-	-	37,710	37,710
Public sector entities	1,017	-	-	1,916	-	-	-	-	-	-	2,933	2,933
Multilateral Development Banks	144	-	-	-	-	-	-	-	-	-	144	144
International Organisations	1,417	-	-	-	-	-	-	-	-	-	1,417	1,417
Institutions	-	-	-	93	-	-	-	-	-	-	164	93
Corporates	-	-	-	411	0	1,065	6,647	12	-	-	8,135	8,130
Secured by mortgages on												
immovable property	-	-	-	-	-	-	34	-	-	-	34	34
Exposures in default	-	-	-	-	-	-	183	-	-	-	183	183
Items associated with particularly												
high risk	-	-	-	-	-	-	-	34	-	-	34	34
Covered bonds	-	-	1,385	-	-	-	-	-	-	-	1,385	1,385
Claims with a short-term credit												
assessment	-	-	-	-	-	-	-	-	-	-	-	-
Collective investments												
undertakings (CIU)	-	-	-	-	-	-	-	-	-	-	-	-
Equity	-	-	-	-	-	-	31	-	-	-	31	31
Securitisation positions	87	281	2,603	1,203	190	407	83	-	19	-	4,871	4,871
Other items	20,814	3	-	-	-	-	44	-	-	-	20,860	20,860
Total credit risk exposure	116,218	283	3,989	3,779	190	1,471	7,049	46	19	-	133,115	133,039

Other items

Total credit risk exposure

16,462

109,534

- 2,073 5,989

46

1,313 6,886

53

327

Risk weight of: 31-12-2019 Of Total which: Deexposure 0% 50% 100% 100% Others ducted 2% 10% 20% 35% value unrated Table: EU CR5 Central governments or central banks 52,820 52,820 52,820 Regional governments or local authorities 38,292 176 29 38,497 38,424 1,841 Public sector entities 977 2,818 2,818 Multilateral Development Banks 434 434 434 International Organisations 493 493 493 Institutions 94 5 88 6 Corporates 411 0 971 6,668 8,063 13 6,847 Secured by mortgages on immovable property 40 40 40 Exposures in default 83 83 83 Items associated with particularly 19 19 19 high risk Covered bonds 1,389 1,389 Claims with a short-term credit assessment 0 Collective investments undertakings (CIU) 0 35 35 35 Equity Securitisation positions 3,473 46 336 21 327 4,943 4,943 56 684 31

16,493

126,221 123,452

16,493

# COUNTERPARTY CREDIT RISK (ARTICLE 439 CRR)

Counterparty credit risk means the risk that the counterparty to a transaction could default before the final settlement of the transaction's cash flows. The exposure to counterparty credit risk pertains to exposures arising from derivatives, repurchase transactions, securities or commodities lending or borrowing transactions, long settlement transactions and margin lending transactions. This section provides different perspectives on this counterparty credit risk as it pertains to BNG Bank.

# Analysis of the counterparty credit risk (CCR) exposure by approach (EU CCR1)

The credit risk of derivative transactions is relatively small, despite the fact that principal amounts totalled EUR 222 billion at year-end 2020 (2019: EUR 217 billion). With the exception of currency derivatives, these contractual principal amounts merely serve as accounting quantities and do not reflect the size of cash flows or the risk associated with the derivatives. The credit equivalent of the derivatives portfolio serves as a more accurate indicator in this regard. The credit risk is expressed in terms of credit equivalents, in accordance with central bank guidelines. The credit equivalent consists of the market value plus an add-on for future credit risk. Contracts with a positive value – where contractual default by the counterparty would cause the bank to miss out on revenue – are relevant in this regard. BNG Bank determines this value using the Mark-to-Market (MtM) method. The current replacement cost is calculated by including collateral received or posted. In addition, the principal amounts are multiplied by percentages based on the specific product and its maturity period in order to determine the potential credit risk ('add-on'). The sum of these two values (credit equivalent) indicates the net exposure to credit risk.

31-12-2020	Re	placement					
		cost/	Potential				
		current	future				
		market	credit			EAD post	
	Notional	value	exposure	EEPE	Multiplier	CRM	RWAs
Table: EU CCR1							
Mark-to-market	-	1,270	1,001	-	-	2,630	1,202
Original exposure method	-	-	-	-	-	-	-
Standardised approach	-	-	-	-	-	-	-
IMM (for derivatives and SFT's)	-	-	-	-	-	-	-
Financial collateral simple method							
(for SFT's)	-	-	-	-	-	-	-
Financial collateral comprehensive							
method (for SFT's)	-	-	-	-	-	-	-
VaR for SFT's	-	-	-	-	-	-	-
Total	-	1,270	1,001	-	-	2,630	1,202

31-12-2019	Rep	olacement					
		cost/	Potential				
		current market	future credit			EAD post	
	Notional	value	exposure	EEPE	Multiplier	CRM	RWAs
Table: EU CCR1							
Mark-to-market	-	1,130	1,323	-	-	2,468	1,167
Original exposure method	-	-	-	-	-	-	-
Standardised approach	-	-	-	-	-	-	-
IMM (for derivatives and SFT's)	-	-	-	-	-	-	-
Financial collateral simple method							
(for SFT's)	-	-	-	-	-	-	-
Financial collateral comprehensive							
method (for SFT's)	-	2,969	3,103	-	-	46	11
VaR for SFT's	-	-	-	-	-	-	-
Total	-	4,099	4,426	-	-	2,514	1,178

988

### Credit valuation adjustment (CVA) capital charge (EU CCR2)

31-12-2020	Exposure value	RWAs
Table: EU CCR2		
Total portfolios subject to the advanced method	-	-
(i) VaR component	-	-
(ii) SVaR component	-	-
All portfolios subject to the standardised method	1,144	953
Based on the original exposure method	-	-
	2.244	953
Total subject to the CVA capital charge	1,144	955
Total subject to the CVA capital charge 31-12-2019	Exposure value	RWAs
	·	
31-12-2019	·	
31-12-2019 Table: EU CCR2	·	
31-12-2019  Table: EU CCR2  Total portfolios subject to the advanced method	·	
31-12-2019  Table: EU CCR2  Total portfolios subject to the advanced method  (i) VaR component	·	

1,115

Total subject to the CVA capital charge

# Standardised approach – CCR exposures by regulatory portfolio and risk (EU CCR3)

31-12-2020										ex	Total posure	Of which
	0%	2%	10%	20%	50%	70%	75%	100%	150% Ot	hers	value	unrated
Table: EU CCR3												
Counterparty credit risk												
Central governments or central												
banks	40	-	-	-	-	-	-	-	-	-	40	40
Regional governments or local												
authorities	461	-	-	-	-	-	-	-	-	-	461	461
Public Sector Entities	-	-	-	25	-	-	-	-	-	-	25	25
Institutions	-	1,848	-	857	507	-	-	-	-	-	3,212	130
Corporates	-	-	-	5	-	-	-	734	-	-	739	734
Total	501	1,848	-	887	507	-	-	734	-	-	4,477	1,390
31-12-2019										•	Total	Of which
	0%	2%	10%	20%	50%	70%	75%	100%	150% Ot		posure value	unrated
Table: EU CCR3												
Counterparty credit risk												
Central governments or central												
banks	43	_	_	_	_	-	-	-	-	-	43	43
Regional governments or local												
authorities	340	_	-	-	-	-	-	-	-	-	340	340
Public Sector Entities	-	-	-	35	7	-	-	-	-	-	42	42
Institutions	-	1198	-	850	525	-	-	-	-	-	2573	80
Corporates	-	-	-	4	-	-	-	711	-	-	715	711
Total	383	1,198	_	889	532	_	_	711	_	-	3,713	1,216

# Impact of netting and collateral held on exposure values (EU CCR5-A)

31-12-2020	Gross positive fair value	Netting	Netted current		Net credit	
	or net carrying amount	benefits	credit exposure	Collateral held	exposure	
Table: EU CCR5-A						
Derivatives	12,367	10,286	2,081	858	1,223	
SFTs	885	-	885	882	3	
Cross-product netting	-	-	-	-	-	
(Reverse) Repos	-	-	-	-	-	
Total	13,252	10,286	2,966	1,740	1,226	
31-12-2019	Gross positive fair value	Netting	Netted current		Net credit	
	or net carrying amount	benefits	credit exposure	Collateral held	exposure	
Table: EU CCR5-A						
Derivatives	12,184	8,939	2,202	1,157	1,065	
SFTs	3,105	-	3,105	3,057	49	
Cross-product netting	-	-	-	-	-	
Total	15,289	8,939	5,307	4,214	1,114	

# Composition of collateral for exposures to counterparty credit risk (EU CCR5-B)

	Collateral used in der	ivative transactions	Collateral used in securities finance transactions			
	Fair value of collateral	Fair value of collateral	Fair value of collateral	Fair value of collateral		
	received	posted	received	posted		
Table: EU CCR5-B						
Cash collateral	858	21,193	3	3		
Paper		1,535	1,076	838		
Total 31-12-2020	858	22,728	1,079	841		
Cash collateral	1,157	14,933	49	49		
Paper	-	895	3,369	2,984		
Total 31-12-2019	1,157	15,828	3,418	3,033		

At year-end 2020, the collateral posted amounted to EUR 22.7 billion (2019: EUR 15.8 billion). The deterioration of BNG Bank's rating by three notches would not change this amount (2019: EUR 34 million increase). The strength of the bank's liquidity position is sufficient to meet, and to absorb fluctuations in, higher collateral obligations.

### **Exposures to central counterparties (EU CCR8)**

31-12-2020	EAD post CRM	RWAs
Table: EU CCR8		
Exposures for trades at QCCPs (excluding initial margin and default fund contributions); of which a support of the properties of the pro	1,850	37
(i) OTC derivatives	1,848	37
(ii) Exchange traded derivatives	-	-
(iii) SFT's	3	0
(iv) Netting sets where cross-product netting has been approved	-	-
Segregated initial margin	-	-
Non-segregated initial margin	-	-
Prefunded default fund contributions	31	0
Alternative calculation of own funds requirements for exposures	-	-
Total exposures to QCCPS	1,882	37

31-12-2019	EAD post CRM	RWAs	
Table: EU CCR8			
Exposures for trades at QCCPs (excluding initial margin and default fund contributions); of which a support of the properties of the pro	1,198	24	
(i) OTC derivatives	1,196	24	
(ii) Exchange traded derivatives	-	-	
(iii) SFT's	2	0	
(iv) Netting sets where cross-product netting has been approved	-	-	
Segregated initial margin	-	-	
Non-segregated initial margin	-	-	
Prefunded default fund contributions	31	0	
Alternative calculation of own funds requirements for exposures	-	-	
Total exposures to QCCPS	1,229	24	

BNG Bank only has exposures with QCCPS, therefore items regarding exposures to non-QCCPS are not mentioned in the table above.

# UNENCUMBERED ASSETS (ARTICLE 443 CRR)

### **Encumbered and unencumbered financial assets**

The value of the encumbered and unencumbered assets is related to the median value of the reporting year by broad categories of asset type.

2020	Carrying amount of encumbered assets		Fair value of encumbered assets		Carrying amount of unencumbered assets		Fair value of unencumbered assets	
		of which: notionally elligible EHQLA and HQLA		of which: notionally elligible EHQLA and HQLA		of which: EHQLA and HQLA		of which: EHQLA and HQLA
Assets of the reporting institution	38,206	4,362			136,233	13,203		
Equity instruments	0	0			0	-		
Debt securities	4,533	4,183	4,544	4,183	14,535	10,446	10,863	10,546
- of which: covered bonds	221	221	221	221	1,235	1,235	1,235	1,235
- of which: asset-backed securities	246	166	245	165	4,639	2,051	4,103	2,053
- of which: issued by general governments	3,546	3,546	3,546	3,546	5,776	5,468	4,132	5,557
- of which: issued by financial corporations	541	430	539	429	7,237	4,226	6,268	4,222
- of which: issued by non-financial corporations	435	-	456	-	1,451	223	397	229
Other assets	35,106	-			115,475	-		
- of which: Mortgage loans	-	-			126	-		
- of which: loans on demand	-	-			10,634	-		

<b>2019</b> <sup>1</sup>	Carrying amount of encumbered assets				Carrying amount of unencumbered assets		Fair value of unencumbered assets	
		of which: notionally elligible EHQLA and HQLA		of which: notionally elligible EHQLA and HQLA		of which: EHQLA and HQLA		of which: EHQLA and HQLA
Assets of the reporting								
institution	22,263	6,739			139,915	7,397		
Equity instruments	0	0			0	-		
Debt securities	7,256	6,739	7,261	6,737	10,903	7,397	11,032	7,498
- of which: covered bonds	1,066	1,066	1,104	1,104	308	206	308	206
- of which: asset-backed securities	464	383	462	381	4,227	2,509	4,248	2,524
- of which: issued by general								
governments	4,447	4,421	4,421	4,421	4,236	4,196	4,329	4,289
- of which: issued by financial								
corporations	2,308	2,263	2,342	2,261	5,327	3,016	5,350	3,019
- of which: issued by non-financial								
corporations	478	55	498	55	1,339	185	1,352	190
Other assets	15,512	-			130,227	-		
- of which: Mortgage loans	-	-			145	-		
- of which: loans on demand	-	-			15,439	-		

<sup>1</sup> As a result of an internal consistency check the comparative figures have been adjusted. The impact of this on the figures is limited.

## Collateral received by an institution, by broad categories of product type

The value of the collateral received is related to the median value of the reporting year by broad categories of asset type.

2020	collateral rec	encumbered eived or own ities issued	received o securitio availa	of collateral r own debt es issued ble for brance
		of which: notionally elligible EHQLA and HQLA		of which: EHQLA and HQLA
Collateral received by the reporting institution	-	-	3,649	2,552
Loans on demand	-	-	-	-
Equity instruments	-	-	-	-
Debt securities	-	-	2,552	2,552
- of which: covered bonds	-	-	-	-
- of which: asset-backed securities	-	-	-	-
- of which: issued by general governments	-	-	35	35
- of which: issued by financial corporations	-	-	1,334	1,334
- of which: issued by non-financial corporations	-	-	-	-
Loans and advances other than loans on demand	-	-	1,097	-
Other collateral received	-	-	-	-
- of which:	-	-	-	-
Own debt securities issued other than own covered bonds or asset-backed				
securities	-	-	-	-
Own covered bonds and asset-backed securities issued and not yet pledged	-	-	-	-
Total assets, collateral received and own debt securities issued	38,206	4,362		

2019	collateral re	encumbered ceived or own ities issued	received o securitio availa	of collateral r own debt es issued ble for brance
		of which: notionally elligible EHQLA and HQLA		of which: EHQLA and HQLA
Collateral received by the reporting institution	0	0	4,859	4,792
Loans on demand	-	-	-	-
Equity instruments	-	-	-	-
Debt securities	-	-	4,140	4,792
- of which: covered bonds	-	-	-	-
- of which: asset-backed securities	-	-	-	-
- of which: issued by general governments	-	-	-	-
- of which: issued by financial corporations	-	-	4,140	4,140
- of which: issued by non-financial corporations	-	-	-	-
Loans and advances other than loans on demand	-	-	904	-
Other collateral received	-	-	-	-
- of which:	-	-	-	-
Own debt securities issued other than own covered bonds or asset-backed				
securities	-	-	-	-
Own  covered  bonds  and  asset-backed  securities  is sued  and  not  yet  pledged			-	-
Total assets, collateral received and own debt securities issued	22,263	6,739		

## Carrying amount of encumbered assets/ collateral received and associated liabilities

The value of the encumbered assets, collateral received and associated liabilities is related to the median value of the reporting year by broad categories of asset type.

		2020		2019
				Assets,
				collateral
		Assets, collateral		received and
		received and own		own debt
	Matching	debt securities	Matching	securities issued
	liabilities,	issued other than	liabilities,	other than
	contingent	covered bonds	contingent	covered bonds
	liabilities or	and ABSS	liabilities or	and ABSS
	securities lent	encumbered	securities lent	encumbered
Carrying amount of selected financial liabilities	14,201	24,916	17,283	21,872
- of which derivatives	14,201	23,456	17,283	21,872
Other sources of encumbrance	11,092	15,018	337	391
TOTAL SOURCES OF ENCUMBRANCE	25,436	38,206	17,620	22,263

### Narrative information on the importance of asset encumbrance for an institution

Encumbered assets are assets involving a pledge or claim and include loans deposited at the central bank, issued paper collateral for repurchase agreements and derivative contracts, re-issued paper collateral and collateralised buy-backs of BNG Bank issues. In times of funding and liquidity needs, encumbered financial assets are not freely disposable to be able to meet these needs in the short term.

Selected financial liabilities consist of derivative positions with a negative balance sheet value which are covered by paper collateral. Collateral received by BNG Bank comprises of debt securities issued by governments and financial corporations and is used for money market transactions. BNG Bank also pledged a portfolio of loans with the Central Bank for monetary purposes. Since most of the banks assets could serve as collateral, this may be further extended in the event of prolonged stress.

#### **MARKET RISK (ARTICLE 445 CRR)**

For the disclosure of market risk pursuant with policies and strategies, please refer to the chapter Risk management objectives and policies in the section 'market risk'. Below table MR1 shows the components of own funds requirements under the standardised approach for market risk. Only temporary small foreign exchange positions for which it is not efficient to hedge the risks may result in a limited capital charge in the interim. At 31 December 2020 and 2019 this position resulted in no capital requirement because our exposure on foreign exchange risk is below the threshold of 2% of eligible capital.

#### Market risk under the standardised approach (EU MR1)

		31-12-2020		31-12-2019
		Capital		Capital
	RWAs	requirement	RWAs	requirement
Tabel: EU MR1				
Outright products				
Interest rate risk (general and specific)	-	-	-	-
Equity risk (general and specific)	-	-	-	-
Foreign exchange risk	-	-	-	-
Commodity risk	-	-	-	-
Options				
Simplified approach	-	-	-	-
Delta-plus method	-	-	-	-
Scenario approach	-	-	-	-
Securitisation (specific risk)	-	-	-	-
Total	-	_	-	-

#### **REMUNERATION (ARTICLE 450 CRR)**

The remuneration policy is compatible with the legal and policy frameworks for institutions established in the Netherlands. In 2020, the following laws and regulations were instrumental in determining the remuneration policy:

- European and national financial supervision rules, including the Capital Requirements Regulation, the Financial Supervision Act, the Regulation on Sound Remuneration Policies, the Remuneration Policy (Financial Enterprises) Act, and the Work and Security Act;
- the Dutch Corporate Governance Code;
- the Banking Code.

In addition to satisfying legal and regulatory requirements, the remuneration policy also complies with the central government's policy for state-owned enterprises. Disclosure on the remuneration policies, responsible committees, governance processes, applied criteria and amounts involved are provided in the annual report as well as on the <u>website</u> (e.g. remuneration report). <sup>8</sup>

#### **LEVERAGE RATIO (ARTICLE 451 CRR)**

Leverage	e ratio (article 451 CRR)		
		31-12-2020 Applicable amounts	31-12-2019 Applicable amounts
1	Total assets as per published financial statements	160,360	149,689
2	Adjustment for entities which are consolidated for accounting purposes but are outside the scope of regulatory consolidation	-	-
3	(Adjustment for fiduciary assets recognised on the balance sheet pursuant to the applicable accounting framework but excluded from the leverage ratio exposure measure in accordance with Article 429(13) of Regulation (EU) No 575/2013 "CRR")	_	_
4	Adjustments for derivative financial instruments	-24,231	-21,498
5 6	Adjustments for securities financing transactions "SFTs"  Adjustment for off-balance sheet items (ie conversion to credit equivalent	3	2
EU-6a	amounts of off-balance sheet exposures)	3,706	2,110
EU-6b	measure in accordance with Article 429 (7) of Regulation (EU) No 575/2013) (Adjustment for exposures excluded from the leverage ratio exposure measure	-	-
7	in accordance with Article 429 (14) of Regulation (EU) No 575/2013) Other adjustments	- -4	- -7
8	Total leverage ratio exposure	139,834	130,296
Table LR	Com: Leverage ratio common disclosure		
		31-12-2020	31-12-2019
		CRR Leverage	CRR Leverage
		ratio exposures	ratio exposures
On-ba	lance sheet exposures (excluding derivatives and SFTs)		
1	On-balance sheet items (excluding derivatives, SFTs and fiduciary assets, but		
	including collateral)	152,116	139,855
2	(Asset amounts deducted in determining Tier 1 capital)	-4	-7

139,848

1,269

1,869

152,112

2,028

1,544

Total on-balance sheet exposures (excluding derivatives, SFTs and fiduciary

Replacement cost associated with all derivatives transactions (ie net of eligible

Add-on amounts for PFE associated with all derivatives transactions (mark-to-

Gross-up for derivatives collateral provided where deducted from the balance

sheet assets pursuant to the applicable accounting framework

assets) (sum of lines 1 and 2)

EU-5a Exposure determined under Original Exposure Method

cash variation margin)

market method)

**Derivative exposures** 

5

		31-12-2020	31-12-2019
7	(Deductions of receivables assets for cash variation margin provided in derivatives		
0	transactions)	-19,559	-14,802
8	(Exempted CCP leg of client-cleared trade exposures)	-	-
9	Adjusted effective notional amount of written credit derivatives	-	-
10	(Adjusted effective notional offsets and add-on deductions for written credit derivatives)		
	·		
11 C	Total derivative exposures (sum of lines 4 to 10)	-15,987	-11,664
	ities financing transaction exposures		
12	Gross SFT assets (with no recognition of netting), after adjusting for sales		
10	accounting transactions	-	-
13	(Netted amounts of cash payables and cash receivables of gross SFT assets)	-	-
14	Counterparty credit risk exposure for SFT assets	3	2
EU-	Derogation for SFTs: Counterparty credit risk exposure in accordance with Article		
14a	429b (4) and 222 of Regulation (EU) No 575/2013	-	-
15	Agent transaction exposures	-	-
EU-	(Exempted CCP leg of client-cleared SFT exposure)		
15a		-	-
16	Total securities financing transaction exposures (sum of lines 12 to 15a)	3	2
Other	off-balance sheet exposures		
17	Off-balance sheet exposures at gross notional amount	8,507	10,974
18	(Adjustments for conversion to credit equivalent amounts)	-7,181	-8,864
19	Other off-balance sheet exposures (sum of lines 17 to 18)	1,326	2,110
	oted exposures in accordance with CRR Article 429 (7) and (14) (on and off balance		
sheet)			
EU-	(Exemption of intragroup exposures (solo basis) in accordance with Article 429(7)		
19a	of Regulation (EU) No 575/2013 (on and off balance sheet))	-	-
EU-	(Exposures exempted in accordance with Article 429 (14) of Regulation (EU) No		
19b	575/2013 (on and off balance sheet))	-2,312	-
Capita	al and total exposures		
20	Tier 1 capital	4,783	4,692
21	Total leverage ratio exposures (sum of lines 3, 11, 16, 19, EU-19a and EU-19b)	135,141	130,296
Lever	age ratio		
22	Leverage ratio	3.5%	3.6%
Choic	e on transitional arrangements and amount of derecognised fiduciary items		
EU-	Choice on transitional arrangements for the definition of the capital measure		
23		Fully phased in	Fully phased in
EU-	Amount of derecognised fiduciary items in accordance with Article 429(11) of		
+A692	4 Regulation (EU) NO 575/2013	-	-

Table LRSpl: Split-up of on balance sheet exposures (excluding derivatives, SFTs and exempted exposures)

		31-12-2020	31-12-2019
		CRR Leverage	CRR Leverage
		ratio	ratio
		exposures	exposures
On-bala	ance sheet exposures (excluding derivatives and SFTs)		
EU-1	Total on-balance sheet exposures (excluding derivatives, SFTs, and exempted	149,804	139,855
	exposures), of which:		
EU-2	Trading book exposures	-	-
EU-3	Banking book exposures, of which:	149,804	139,855
EU-4	Covered bonds	1,385	1,389
EU-5	Exposures treated as sovereigns	40,888	42,646
EU-6	Exposures to regional governments, MDB, international organisations and PSE NOT	2,368	2,100
	treated as sovereigns		
EU-7	Institutions	20,631	15,434
EU-8	Secured by mortgages of immovable properties	117	138
EU-9	Retail exposures	-	-
EU-10	Corporate	57,858	56,395
EU-11	Exposures in default	396	290
EU-12	Other exposures (eg equity, securitisations, and other non-credit obligation assets)	26,160	21,463

Table LRQua: Free format text boxes for disclosure on qualitative items

Description of the processes used to manage the risk of excessive leverage

Given the fact that a very large part of BNG Bank's balance sheet consists of 0% credit risk weighted assets, application of the leverage ratio is much less favourable than the more highly rated weighted solvency ratio. Thus far, a European minimum requirement for a leverage ratio of 3% seems most likely to become effective in the near future. For the time being BNG Bank assumed that it would need to comply with this 3% lower limit from 2018. Partly on account of the hybrid capital issue, the bank's leverage ratio at the end of 2016 already reached the required level of 3%. The possible changes in this minimum requirement remain a point of attention. If the capital planning for the leverage ratio should necessitate a raise in the near future, the bank would expressly consider a further issue of hybrid capital or further reducing dividend pay-out. By taking these measures, the bank prevents threats to client lending due to constrictive leverage ratios.

2 Description of the factors that had an impact on the leverage Ratio during the period to which the disclosed leverage Ratio refers The obligation to meet a leverage ratio in the future has meant among other things that, beginning in the 2011 financial year, the dividend was reduced from a payout percentage of 50% to 25%. This measure was still in place during 2016. In 2017 the proposed dividend payout ratio was raised to 37.5%. The possibility of attracting hybrid capital that qualifies as (additional) Tier 1 capital is also part of the migration plan. In 2015 EUR 424 million hybrid capital was attracted and an additional EUR 309 million was attracted in 2016.

# EXPOSURES IN EQUITIES NOT INCLUDED IN THE TRADING BOOK (ARTICLE 447 CRR)

The exposure comprises the shareholdings in BNG Bank's banking book. The tables below present the various values of the portfolio at year-end 2020 and 2019.

31-12-2020				Results
	Balance sheet		Cumulative	realised in
	value (exposure)	Fair value	unrealised results	financial year
Financial assets at fair value through profit and				
loss	-	-	-	-
Associates and joint ventures				
- Associates	3	3	-	1
- Joint ventures	28	28	-	2
Total	31	31	-	3
31-12-2019				Results
	Balance sheet		Cumulative	realised in
	value (exposure)	Fair value	unrealised results	financial year
Financial assets at fair value through profit and				
loss	-	-	-	-
Associates and joint ventures				
- Associates	3	3	-	-2
- Joint ventures	32	32	-	2
Total	35	35	-	0

BNG Bank has no investments in listed shares. The shares in the Investments in associates and joint ventures balance sheet item concern investments in joint ventures entered into by BNG Gebiedsontwikkeling. The purpose of these partnerships is to develop and allocate land for the construction of homes and industrial estates, together with public authorities, at the bank's own expense and risk. The shares in associates and the shares in the Financial assets at Fair Value through Other Comprehensive Income (FVOCI) balance sheet item concern investments in private equity exposures in companies that are significant suppliers to the public sector.

The Investments in associates and joint ventures balance sheet item is stated according to the equity method. The Financial assets at FVOCI item is stated at fair value and value movements are recognised in equity, net of taxes. Further information can be found in the annual report (pp. 110-127) under 'Accounting principles for the consolidated financial statements'.

## EXPOSURE TO SECURITISATION POSITIONS (ARTICLE 449 CRR)

BNG Bank acts primarily as an investor in the most senior tranches of securitisations for the ALM portfolio; these investments in securitisations are part of the banking book. The underlying assets are mostly residential mortgages. The bank does not invest in synthetic securitisations or resecuritisations. As well as acting as an investor in securitisations, BNG Bank fulfils a number of additional roles, albeit to a limited extent. These include the role of Issuer Account Bank and the role of Cash Advance Facility Provider in that the bank provides liquidity facilities to finance securitisations. BNG Bank does not act as an originator or sponsor. This means that the bank has not transferred any assets to securitisations and does not support securitised assets.

Securitisations broken down by underlying assets	31-12-2020	31-12-2019
Securitisations on the balance sheet with underlying assets in:		
- Home mortgages	1,146	1,281
- Home mortgages with NHG guarantee	3,516	3,512
- Other	137	150
Total balance sheet value	4,799	4,943
Off-balance sheet commitments regarding securitisations	144	167
Total securitisation positions	4,943	5,110

At year-end 2020 the balance sheet value amounted to EUR 4.8 billion (2019: EUR 4.9 billion) in securitisation positions. The off-balance sheet securitisation commitments at year-end 2020 amounted to EUR 0.2 billion (2019: EUR 0.2 billion) and concerned liquidity facilities.BNG Bank considers the credit risk of these facilities to be virtually zero. The facilities may only be drawn on under strict conditions (e.g. in the event of technical payment problems), and in that case BNG Bank's claim will have preference over all other claims. All securitisations in the bank's portfolio have at least one external rating from S&P, Moody's, Fitch or DBRS. Any interest rate risks are hedged with derivatives, in conformity with policy. The aforementioned risks are monitored by the Investment Committee. All securitisations are subjected to an impairment test twice a year. As investments are limited to the most senior tranches the liquidity risk for BNG Bank is considered limited as these senior tranches are impacted last if liquidity issues would arise for the underlying securitisation.

Exposure value and capital requirement of securitisations broken down by risk weighting

31-12-2020 31-12-2019 **Capital requirement Capital requirement Exposure value Exposure value** 25 0 0 0% 56 5% 1 327 1 281 5 10% 2,603 21 684 20% 1,273 20 3,473 56 3 30% 108 35% 46 1 102 40% 3 98 4 45% 50% 207 8 336 13 65% 79 4 70% 0 4 100% 225% 20 4 350% 21 6 1250% **Total** 4,799 68 4,943 82

Under CRD IV, BNG Bank applies the Standardised Approach (SA) in calculating risk-weighted exposure values of securitisations in relation to credit risk. Most of the securitisation positions have a 20% weighting. In 2020 no securitisations have a 1250% weighting because of the rating. If these items occur BNG Bank takes advantage of the option to offset these items against the CET1 capital.

#### **OVERVIEW OF PILLAR 3 REFERENCES**

The table below presents an overview of the relevant regulatory guidelines in relation to Pillar 3 disclosures and the location where the information is included in this report. The main reference point for these regulatory disclosure requirements is Part Eight of the Capital Requirements Directive (CRR). However, the European Banking Authority (EBA) as well as the European Commission published several additional guidelines or standards that prescribe in more detail how specific information should be disclosed. Most noteworthy in this respect are the following:

- EBA/GL/2018/10: Guidelines on disclosure of non-performing and forborne exposures
- (EU) 2017/2295 Regulatory Technical Standards for disclosure of encumbered and unencumbered assets
- EBA/GL/2017/01: Guidelines on LCR disclosure to complement the disclosure of liquidity risk management
- EBA/GL/2016/11: Guidelines on disclosure requirements under Part Eight of Regulation (EU) NO 575/2013
- EBA/GL/2016/01: Revised guidelines on the further specification of the indicators of global systemic importance and their disclosure
- (EU) 2016/200: Implementing Technical Standards with regard to disclosure of the leverage ratio EBA/GL/2015/22: Guidelines on sound remuneration policies
- (EU) 2015/1555: Regulatory Technical Standards for the disclosure of information in relation to the compliance of institutions with the requirement for a countercyclical capital buffer
- (EU)1030/2014: Implementing Technical Standards with regard to the disclosure of the values used to identify global systemically important institutions
- EBA/GL/2014/03: Guidelines on disclosure of encumbered and unencumbered assets
- (EU)1423/2013: Implementing Technical Standards with regard to disclosure of own funds requirements
- EBA/GL/2020/07: Guidelines on reporting and disclosure of exposures subject to measures applied in response to the COVID-19 crisis

CDD	Description	Additional g		Clauifeastion if mandad	Location Pillar III
CRR	Description	stand	applicable tables or templates	Clarification, if needed	report
Article 435	Risk management objectives and policies	EBA/GL/ 2016/11	EU OVA EU CRA EU CCRA EU MRA	This section provides a comprehensive overview on the risks management objectives and policies. The information is mostly qualitative for which no specific format is required. Note that quantitative targets on individual risk are not disclosed due to their confidential nature.	pp. 11 - 47
				Information regarding the governance arrangements with respect to the members of the Management and Supervisory Boards is not included again in this report. The latest information on this can be found on the website of BNG Bank. The annual report includes a comprehensive overview on this as at end 2020.	p. 14
		EBA/GL/ 2017/01	EU LIQA EU LIQ1	The CRR does not include a separate article on the disclosure of liquidity risk, but EBA has issued guidelines for this under article 435 of the CRR. This information is also included in the first section of this report.	pp. 33 - 37
Article 436	Scope of application		EU LI1 EU LI2 EU LI3 EU LIA		pp. 49 - 53
Article 437	Own funds	(EU)1423/2013		BNG Bank's own funds consists of share capital and hybrid capital. The hybrid capital instruments are issued privately to a limited number of investors. The terms and conditions for these instruments are not part of the disclosure as they are only made available to these parties on the basis of confidentiality.	pp. 54 - 65
Article 438	Capital requirements	EBA/GL/ 2016/11	EU OV1	•	pp. 66 - 71
Article 439	Exposure to counterparty credit risk	EBA/GL/ 2016/11	EU CCR1 EU CCR2 EU CCR8 EU CCR5-A EU CCR5-B	Qualitative information as described in articles 439(a), (b) and (d) is included in the first section on risk management objectives and policies, while article 439(c) is not applicable as BNG Bank has not identified any wrong-way risk. In addition, articles 439(g),	pp. 101 - 107

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of previous		A .d.:.:			Location
page <b>crr</b>	Description		guidelines or ndards	Clarification, if needed	Pillar III report
CRK	Description	Stai	iuaius	(h) and (i) are also not applicable as BNG Bank has no credit derivative hedges.  The quantitative information from articles 439(e) and (f) is included in accordance with the templates provided by EBA.	report
Article 440	Countercyclical capital buffer	(EU) 2015/1555		The geographical distribution of the credit exposures of BNG Bank is limited since most of the credit exposures are concentrated in The Netherlands. However, at end of 2019 a small countercyclical capital buffer applies which is disclosed in accordance with the requirements.	pp. 72 - 73
Article 441	Indicator of global systemic importance	(EU)1030/20	14	BNG Bank is not considered an institution of global systemic importance. Hence, this article is not applicable for the BNG Bank.	n/a
Article 442	Credit risk adjustments	EBA/GL/ 2018/10 EBA/GL/ 2016/11:	EU CRB-A EU CRB-B EU CRB-C EU CRB-D EU CR1-A EU CR1-B EU CR1-C Templates 1, 3, 4 & 9 EU CR2-A EU CR2-B Moratoria	EU CR1-D and EU CR1-E are replaced by Templates 1, 3, 4 and 9.	pp. 74 - 100
Article 443	Unencumbered assets	(EU) 2017/2295 EBA/GL/ 2014/03			pp. 108 - 113
Article 444	Use of ECAI's	EBA/GL/ 2016/11	EU CRD EU CR5 EU CCR3	Qualitative information on the use of ECAI's is included in the first section on risk management objectives and policies, and specifically in the subsection on credit risk. The quantitative template as provided by EBA is part of the section with templates on credit risk.	pp. 26, 99 - 100, 104
Article 445	Exposure of market risk	EBA/GL/ 2016/11	EU MR1		p. 114
Article 446	Operational risk			As included in table EU OV1 in the section on capital requirements, BNG Bank applies the	pp. 38 - 44

Continuation of previous page		Additional guidelines or		Location Pillar III
CRR	Description	standards	Clarification, if needed	report
Article 447	Exposure in equities not included in the trading book		standardized approach for the assessment of own fund requirements for operational risk.  BNG Bank has a small exposure in equities.  An overview on these exposures is included separately in this Pillar 3 report.	p. 119
Article 448	Exposure to interest rate risk on position not included in the trading book		Note that BNG Bank does not have a trading book.  An overview on the nature of the interest rate risk is included in the qualitative part of this report and is specifically addressed in the subsection on market risk.	pp. 29 - 32
Article 449	Exposure to securitisation positions			pp. 120 - 121
Article 450	Remuneration policy	EBA/GL/ 2015/22	BNG Bank has a prudent system of remuneration that complies with the legal and policy frameworks for institutions established in the Netherlands. In addition to satisfying legal and regulatory requirements, the remuneration policy also complies with the central government's policy for stateowned enterprises. Disclosure on the remuneration policies, responsible committees, governance processes, applied criteria and amounts involved are provided in the annual report as well on the website (e.g. remuneration report).	pp. 115  Annual report, pp. 36 - 37, 85 and 198 - 200
Article 451	Leverage ratio	(EU) 2016/200		pp. 116 - 118
Article 452	Use of IRB approach to credit risk		BNG Bank does not apply the IRB approach.	n/a
Article 453	Use of credit risk mitigation technique	EU CRC EU CR3 EU CR4	Qualitative information as described in tables EU CRC and EU CRD is part of the comprehensive disclosure in the first section on risk management objectives and policies. The prescribed quantitative templates are included separately in this report.	pp. 22 - 28, 96 - 98
Article 454	Use of the Advanced		BNG Bank does not apply the AMA approach to operational risk.	n/a

Continuation of previous				Location
page	Additional guidelines or			Pillar III
CRR	Description	standards	Clarification, if needed	report
	Measurement			
	Approaches			
	(AMA) to			
	Operational Risk			
Article 455	Use of internal		BNG Bank does not apply internal market risk	n/a
	market risk		models.	
	models			