Green Bond Progress Report

October 2025

vodafone Ziggo

Table of content

1. Introduction

VodafoneZiggo is a 50/50 joint venture between Liberty Global, a world leader in converged broadband, video and mobile communications services, and Vodafone Group, a leading European and African telecoms company. VodafoneZiggo started operation in 2017 after the completion of the merger of Vodafone Netherlands and Ziggo, each with its own heritage stretching back more than two decades. In the years since, VodafoneZiggo has become a fully converged operator, offering both fixed and mobile services.

We operate through our two main brands, Vodafone and Ziggo, as well as our no-frills mobile brand, hollandsnieuwe, which offers affordable subscriptions for basic services. Our converged approach allows us not only to grow faster as a company but also to provide more products and services, more efficiently, to more customers – all while delivering an exceptional customer experience.

"With the issuance of our second green bond in 2024, we reinforced our commitment to fostering sustainable growth and innovation within the telecom industry. This report showcases the tangible impact of the projects funded by our green bond – reducing emissions, improving energy efficiency, and advancing a greener, more inclusive future. Together, we are making meaningful progress toward our environmental goals."

Ritchy Drost,
CFO VodafoneZiggo

Sustainability at VodafoneZiggo

We are committed to ensuring that digital progress benefits everyone. This starts within our organisation, fostering an inclusive workplace, and extends to our communities through initiatives that promote responsible digital use for younger generations and digital skills development for the elderly. Our connectivity solutions, such as Mediabox Next Mini, help our customers to partly reduce their electricity usage. At the same time, we take responsibility for the environmental impact of the products we provide, addressing challenges from manufacturing to end-of-life. This aligns with our mission to reduce our environmental footprint, drive accountability in our supply chain, and promote a circular economy.

In 2024, we strengthened our efforts to combat climate change by improving energy efficiency, reducing CO_2 emissions across Scope 1, 2, and 3, and voluntarily offsetting all of our Scope 1 and 2 emissions through Gold Standard-certified carbon credits. Key initiatives included the creation of an Energy & Sustainability team, publishing our first organisation-wide environmental policy, and enhancing data quality and compliance. Furthermore, we began developing a climate transition plan to achieve long-term carbon reduction targets, with the first version to be shared in our 2025 Integrated Annual Report. Through these efforts, we aim to build a resilient and sustainable future for all.

Carbon reporting methodology

In 2022, we issued our first sustainability-linked bonds (SLBs) totaling €2.1 billion which are linked to our environmental goals of a 50% CO_2 emissions reduction in Scope 1 & 2, and in Scope 3 by 2025 (as compared to a 2018 baseline). By the end of 2024, we surpassed these targets ahead of schedule, achieving a 64% reduction in Scope 1 and 2 emissions and a 52% reduction in Scope 3 emissions, in line with the methodology as defined in our Sustainable Finance Framework and Sustainability-Linked Bond.

In 2024, we implemented an enhanced carbon calculation methodology aligned with the latest GHG Protocol, improving accuracy and completeness in measuring our emissions. This updated methodology and baseline will guide future CO_2 reporting, target-setting, and the development of our climate transition plan.

Sustainable Finance Framework

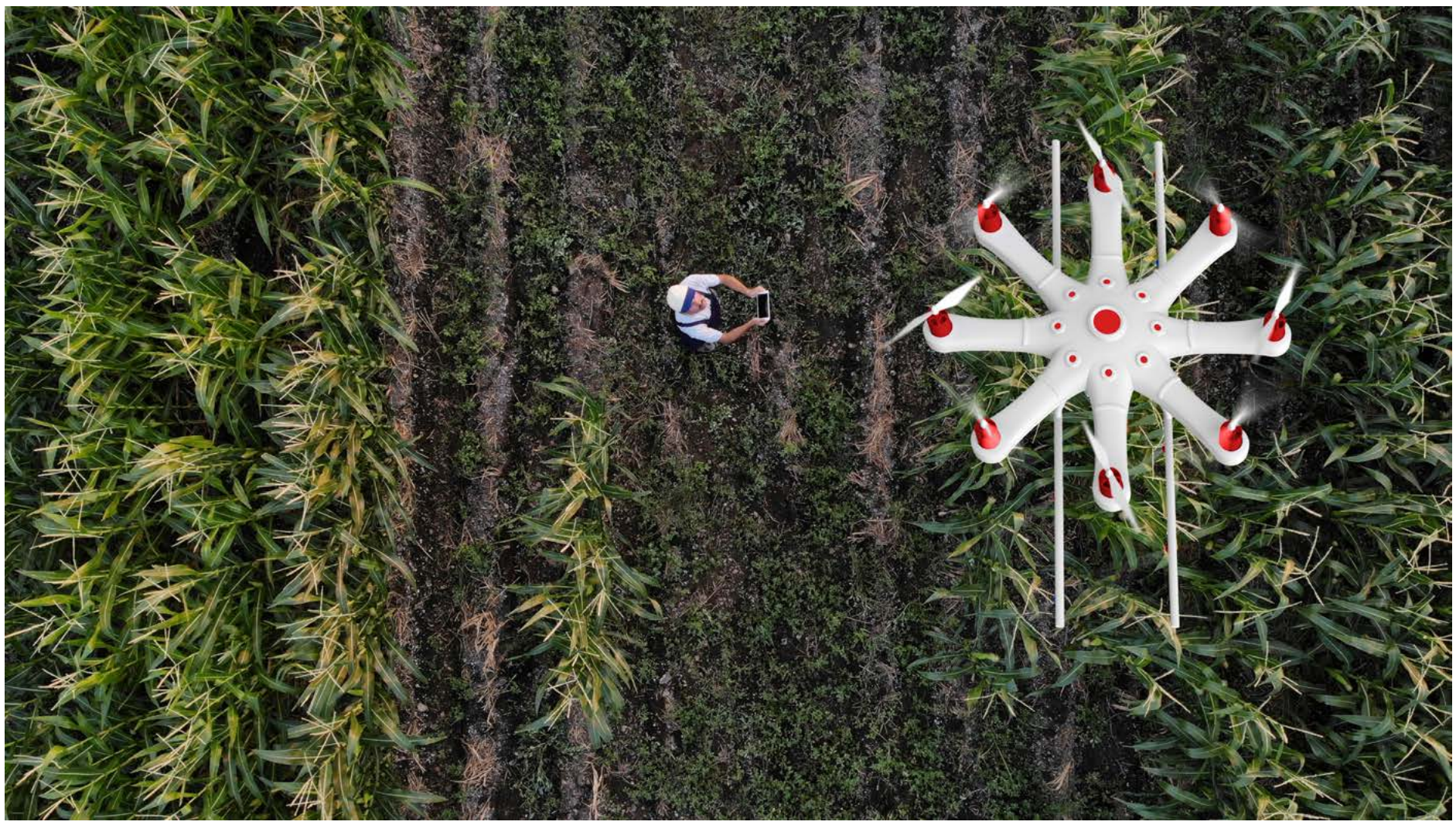
To support our goal of reducing our environmental impact by half by 2025 (as compared to the 2018 baseline), we introduced a Sustainable Finance Framework (the Framework) in January 2022, enabling the issuance of Green Bonds. The Framework defines criteria for the eligibility, selection, and evaluation of green projects, along with guidelines for managing proceeds and reporting on project progress and environmental impact.

Net proceeds, or an equivalent amount, from Green Bonds issued under the Framework are allocated to fund or refinance eligible green projects, based on the specified selection process. These allocations are tracked internally through a Green Finance Register.

Eligible green projects must support our transition towards low-carbon climate resilient growth with focus areas such as renewable energy, energy efficiency, clean transportation, circular economy adapted products, production technologies and processes and/or certified eco-efficient products, and green buildings. All eligible green projects have a look-back period of no longer than 36 months from the time of a Green Bond issuance. This entails that we are able to invest the net proceeds or an amount equal to the net proceeds in existing eligible green projects no older than 36 months from the time of a Green Bond issuance.

Any portion of the net proceeds or an amount equal to the net proceeds of a Green Bond that has not been allocated to eligible green projects will be managed in accordance with our standard liquidity management practices.

The Framework is aligned with the ICMA Green Bond Principles[1] and has been certified by Sustainalytics, a leading global independent company in Environmental Social Governance (ESG) research and rating provider.



[1] The Green Bond Principles are administered by the International Capital Market Association and are available at https://www.icmagroup.org/greensocial-and-sustainability-bonds/green-bond-principles-gbp/

2. Green Bond

Under the Framework, our second Green Bond was issued in October 2024 by Ziggo Bond Company B.V., issuing €575 million 6.125% Senior Notes due 2032 with proceeds used to refinance $625 million 6.0% Senior Notes due January 2027.

Issuer	Nominal Amount	Due Date	Coupon	ISIN Code
Ziggo Bond Company B.V.	€575 million	2032	6.125%	XS2914769299 & XS2914769372

In connection with the Framework, we are committed to invest an amount equal to the net proceeds of the €575 million Green Bond in existing and/or future eligible green projects over the eligible period between October 2021 until September 2027.

In this report we provide an overview of the €575 million funding allocation to various eligible green projects, our environmental impact and an independent assurance report from our auditor KPMG. The independent assurance report currently excludes the assessment on our environmental impact.

3. Eligible green project evaluation

Our Sustainable Finance Committee includes representatives from Finance, Corporate Social Responsibility, Technology teams and other stakeholders nominated as subject matter experts. Following the steps laid out in the Framework, the Committee must select, evaluate and approve candidate projects put forward by teams across VodafoneZiggo for their eligibility, ensuring that they contributed to achieving our environmental targets. All approved eligible green projects will then be reported and monitored in the register.

In addition to the evaluation process, the Committee regularly convenes, at least on an annual basis, to discuss and review the progress of eligible green projects and the KPI report.

4. Eligible green project allocation

We have identified and allocated in total €695.5 million funding to eligible green projects, exceeding the minimum required amount equal to the €575 million Green Bond proceeds, therefore, fulfilling the criteria in accordance with the management of proceeds principle laid out in the Framework.

Our direct environmental impact is mainly related to our mobile and fixed networks, our buildings and the mobility of our employees. The indirect environmental impact is related to the production and energy use of our products and services. Our fixed and mobile networks (including data centers and infrastructure) accounting for 95% of our electricity consumption. Our networks are therefore a significant focus of the Green Bond program.

Therefore, eligible green projects aiming to deliver energy efficiency in our networks accounted for 100% of the allocated funding.

Eligible Green Projects Portfolio		**Green Funding**			
(as of 30 September 2025)					
	Amount (in millions)	**Instrument (ISIN)**	**Issuance Date**	**Due Date**	**Amount (in millions)**
Energy Efficiency*	€ 695.5	XS2914769299 & XS2914769372	Oct 2024	2032	€ 575.0
Total	**€ 695.5**				**€ 575.0**

Percentage of eligible green project portfolio currently financed through green funds (usage)	83%
Percentage of green funds - allocated	100%
Eligible Green Projects Portfolio - unallocated (in millions)	€ 120.5
Eligible Green Projects in 2021 (Oct-Dec)	1%
Eligible Green Projects in 2022	34%
Eligible Green Projects in 2023	31%
Eligible Green Projects in 2024	34%

*Denotes the project allocation in scope for the independent assurance report

5. Environmental impact

In order to measure the overall environmental impact, several monitoring indicators have been established in line with the provisions of the Framework. The progress of our performance with regard to our carbon footprint and energy consumption is reported on a yearly basis in our Integrated Annual Report.

We look at the correlation between data usage by our customers in both mobile and fixed networks and our overall energy consumption (in KWh) and the CO_2 emissions (scope 1, 2 and 3). We observe a positive development that our energy consumption and CO_2 emissions decreased during the 2022-2024 period, despite the fact that our customer data usage has increased significantly driven by - amongst other things - the 4G and 5G mass adoption, the increasing internet download speeds, the increasing home entertainment consumption and the increasing use of AI. In the same period, we have invested in several eligible green projects to cope with the increasing demand and invest in new technology to run our networks in a more energy efficient way. Although we do our utmost and take our responsibility to run more energy efficient networks, we acknowledge the energy consumption of our customers might increase due to their own data usage behaviour.

We believe by tracking the below mentioned metrics we are able to establish a positive correlation between our investment in all eligible green projects and increasing our energy efficiency and reducing our CO_2 emissions. The environmental impact is calculated at an aggregate level. Individual eligible green projects will likely contribute to higher percentage impact in their specific area.

Furthermore, by investing in such eligible green projects, we contribute to the advancement of the United Nations' Sustainable Development Goals (SDG) related to Affordable and Clean Energy (SDG7), Industry, Innovation and Infrastructure (SDG9), Sustainable Cities and Communities (SDG11) and Responsible Consumption and Production (SDG12), as laid out in the Framework. These goals are integral part of the 17 SDGs developed by the United Nations as a call for action to promote prosperity while protecting the planet.

Green Bond Principles	Investment (in millions)	Impact
Energy Efficiency	**Fixed Network** € 191.1 million	**Kg CO_2 emissions (Scope 1, 2 & 3) / RGU** 20% decrease from 85 kg CO_2 / RGU in 2023 to 68 kg CO_2 / RGU in 2024 **Energy use per terabytes / annum (in KWh)** 13% decrease from 8.4 KWh / terabytes in 2023 to 7.3 KWh / terabytes in 2024
	Mobile Network € 211.0 million	**Kg CO_2 emissions (Scope 1, 2 &3) / Terabytes** 34% decrease from 1,292 kg CO_2 / terabytes in 2023 to 849 kg CO_2 / terabytes in 2024 **Energy use per terabytes / annum (in KWh)** 11% decrease from 163 KWh / terabytes in 2023 to 145 KWh / terabytes in 2024
	Technology (including CPE) € 293.4 million	**Energy use per terabytes / annum (in KWh)** 13% decrease from 13 KWh / terabytes in 2023 to 11 KWh / terabytes in 2024
Total	**€ 695.5 million**	**439 million kg CO_2 emissions reduction** in the baseline year 2018 to 2024 period (45% reduction) **31 GWh energy savings** in networks and buildings in the 2022-2024 period (11% reduction)

5.1 ENERGY USE AND CO_2 EMISSIONS OF FIXED NETWORK

The metric we deploy to monitor the environmental impact of our fixed network is energy use per terabytes / annum (in KWh) and CO_2 emissions per Revenue Generating Unit (RGU[2]). Despite the strong growth trajectory in fixed network data traffic over 2024 (15% YoY), we were able to reduce our energy use per terabytes / annum (in KWh) and kg CO_2 emissions per RGU by 13% YoY and 20% YoY respectively in 2024, supported by eligible green projects initiated to make the network more energy efficient and less pollutant.

FIXED NETWORK

13% YoY reduction in energy use per terabytes / annum (in KWh) in 2024

20% YoY reduction in kg CO_2 emissions per RGU in 2024

[2] Revenue Generating Units (RGU) are separately a Basic Video Subscriber, Enhanced Video Subscriber, Internet Subscriber or Telephony Subscriber. A home, residential multiple dwelling unit, or commercial unit may contain one or more RGUs

5.2 ENERGY USE AND CO_2 EMISSIONS OF MOBILE NETWORK

The energy use indicator is calculated using the electricity consumption and data traffic managed by the mobile network, expressed in terabytes. Despite the strong growth trajectory in mobile data traffic over 2024 (14% YoY), our energy use per terabytes / annum (in KWh) decreased by 11% YoY in 2024.

We also closely monitor our CO_2 emissions and their correlation with mobile network data traffic. In 2024 our Kg CO_2 emissions per terabyte metric decreased by 34% YoY.

This supports our view that our investments in 4G and 5G technology have resulted in a more energy efficient mobile network, contributing to lower energy use and CO_2 emissions.

MOBILE NETWORK

11% YoY reduction in energy use per terabytes / annum (in KWh) in 2024

34% YoY reduction in kg CO_2 emissions per terabytes in 2024

6. Eligible green project examples

We currently track and monitor around 65 eligible green projects in our Green Finance Register. The following examples of eligible green projects have been selected based on their respective materiality and scope in the register.

6.1 MEDIABOX NEXT AND NEXT MINI

Mediabox Next and Mediabox Next Mini are our 4K TV platforms equipped with an optimised hardware and a smarter software technology, resulting in less materials required to build our mediaboxes and less energy consumption to operate. When compared to the older Mediabox XL, the energy consumption of Mediabox Next and Next Mini decreased, on average, between 15%-90% depending on the mode status.

In 2024, we continued to deploy our Mediabox Next Mini – our most energy-efficient media box yet– as the default option for new Ziggo customers. Not only is the Next Mini smaller than its predecessor, reducing material consumption, but it also uses two-thirds less energy, with an average power consumption of 1.57 Watt, and runs on eco-mode as its default setting. At the end of 2024, around 2.1 million customers had the newest-generation TV watching experience which represents 62% of our video customer base.

Energy Consumption	Mediabox Next Mini	Mediabox Next	Mediabox XL	Difference Next/Next Mini and XL
Mode 'On'	max 5 watt	11.16 watt	max 59 watt	circa 90% saving on energy consumption
Mode 'Stand-by' - Quick Start	2.9 watt	9.29 watt	34 watt	circa 90% saving on energy consumption
Mode 'Stand-by' - Slow Start	0.9 watt	1.55 watt	16 watt	circa 90% saving on energy consumption
Mode 'Stand-by' - Eco Mode	0.5 watt	0.34 watt	0.4 watt	circa 15% saving on energy consumption

Source: www.ziggo.nl/klantenservice/televisie-radio/energieverbruik-en-stand-by

6.2 FIXED NETWORK: SPECTRUM BANDWITH UPGRADE, STREET CABINET REFURBISHMENT AND COOLING EQUIPMENT REPLACEMENT

The eligible green projects within our fixed network centered around network modernisation through upgrading our spectrum bandwidth, street cabinet refurbishment programs and replacement of cooling equipment in our data centers. We have increased our spectrum bandwidth in the fixed network from 800 MHz to 1200 MHz, allowing for more data traffic at the same energy consumption level. At the same time, we refurbished older equipment in all of 450,000 street cabinets with more energy efficient equipment. Furthermore, in our data centers, we replaced older cooling system equipment with a new, more sustainable and energy-efficient cooling system.

All these project examples have contributed to reducing our energy use and CO_2 emissions whilst accommodating for an increase in data traffic. Kg CO_2 emissions / RGU and energy use per terabytes / annum (in KWh) have decreased by 20% and 13% respectively in 2024, as compared to the previous year.

Fixed network

Environmental Impact	2018	2023	2024	Change: 2024 vs 2023	Change: 2024 vs 2018
Scope 1, 2 and 3 CO_2 emissions (in kg CO_2)	966,127,494	701,341,368	526,804,863	-25%	-45%
Total fixed RGUs	9,719,463	8,252,806	7,756,109	-6%	-20%
Kg CO_2 emissions / RGU	**99**	**85**	**68**	**-20%**	**-32%**

Year-on-year Change

Energy Efficiency	2022	2023	2024	2024 vs 2023	2023 vs 2022
Fixed network electricity usage (in KWh)	164,593,434	151,005,535	150,464,107	0%	-8%
Fixed network data traffic (in terabytes)	14,647,958	17,989,629	20,716,558	15%	23%
Energy efficiency (in KWh / terabytes)	**11**	**8**	**7**	**-13%**	**-25%**

6.3 MOBILE NETWORK CAPACITY AND COVERAGE EXPANSION AND UPGRADES

5G technology can contribute to solving our world climate change challenges. Recent research from STL Partners have shown that 5G technology could reduce CO_2 emissions by almost 1% in 2030 (over 250 million tonnes CO_2 emissions in that year), primarily by accelerating the adoption of wind and solar energy over fossil fuels. The research confirms that various 5G use cases can leverage its key capabilities (low latency, high bandwidth, high device density and reliability) against 4G technology to ensure real-time decision making at scale. One example being using 5G devices to allow wind turbines to automatically change blade direction based on external factors. These use cases will be an integral part of the future energy ecosystem, where everything will need to be connected – appliances, vehicles, energy networks, trading platforms, distributed generation sources, wholesale markets, renewable energy assets, etc.

As the 4G and 5G mass adoption continue to increase, we experience significant data traffic increases in our mobile network. Our customer promise is to continue to deliver all the required capacity and coverage upgrades to cope with traffic growth, which requires a thorough site planning. This includes upgrading each site with the newest equipment and technology, ensuring that each successive generation of equipment is more energy efficient.

All these initiatives, whilst coping with increasing capacity demand from our customers, have reduced our energy consumption and CO_2 emissions in our mobile network. Kg CO_2 emissions / terabytes and energy use per terabytes / annum (in KWh) have decreased by 34% and 11% respectively in 2024, as compared to the previous year.

Mobile network

				Change	
Environmental Impact	**2018**	**2023**	**2024**	**2024 vs 2023**	**2024 vs 2018**
Scope 1, 2 and 3 CO_2 emissions (in kg CO_2)	966,127,494	701,341,368	526,804,863	-25%	-45%
Mobile network data traffic (in terabytes)	422,213	542,684	620,371	14%	47%
Kg CO_2 emissions / terabytes	**2,288**	**1,292**	**849**	**-34%**	**-63%**

				Year-on-year Change	
Energy Efficiency	**2022**	**2023**	**2024**	**2024 vs 2023**	**2023 vs 2022**
Mobile network electricity usage (in KWh)	102,237,124	88,381,919	89,799,034	2%	-14%
Mobile network data traffic (in terabytes)	422,213	542,684	620,371	14%	29%
Energy efficiency (in KWh / terabytes)	**242**	**163**	**145**	**-11%**	**-33%**

7. KPMG assurance report

Limited assurance report of the independent auditor on the Eligible Green Project Allocation

To: The Board of Directors of VodafoneZiggo Group Holding B.V.

Our conclusion
We have reviewed the Allocation of Proceeds of the Green Funding as included in the section '4. Eligible Green Project Allocation' of the VodafoneZiggo Green Bond Progress Report (hereafter: the 'Report'), dated October 1, 2025 of VodafoneZiggo Group Holding B.V. (hereafter: 'VodafoneZiggo' or the 'Company') based in Utrecht. The Eligible Green Project Allocation is marked in the Report with an asterisk (*).

Based on the procedures performed, nothing has come to our attention that causes us to believe that the Eligible Green Project Allocation is not, in all material respects, prepared in accordance with the Eligible investments per category as described in the VodafoneZiggo Sustainable Finance Framework (hereafter: the 'Framework').

Basis for our conclusion
We performed our review on the Report in accordance with Dutch law, including Dutch Standard 3000A 'Assurance-opdrachten anders dan opdrachten tot controle of beoordeling van historische financiele informatie (attest-opdrachten)' (Assurance engagements other than audits or reviews of historical financial information (attestation engagements)). Our review is aimed to obtain limited assurance. Our responsibilities under this standard are further described in the section 'Our responsibilities for the review of the Eligible Green Project Allocation' section of our report.

We are independent of VodafoneZiggo Group Holding B.V. in accordance with the 'Verordening inzake de onafhankelijkheid van accountants bij assurance-opdrachten' (ViO, Code of Ethics for Professional Accountants, a regulation with respect to independence). Furthermore, we have complied with the 'Verordening gedrags- en beroepsregels accountants' (VGBA, Dutch Code of Ethics for Professional Accountants).

We believe the assurance evidence we have obtained is sufficient and appropriate to provide a basis for our conclusion.

Criteria
The criteria applied are the criteria outlined in the Framework ("Eligibility Criteria") and need to be read and understood together with the Eligibility Green Project Allocation. VodafoneZiggo is solely responsible for selecting and applying these Eligibility Criteria, taking into account applicable law and regulations related to reporting.

The Eligibility Criteria used for the preparation of the Eligible Green Project Allocation are the Eligible investments per category as described in the Framework. The Framework is available online at Sustainable Finance Framework. The key sections of the Eligibility Criteria are also described in the Appendix of the Report.

Materiality
Based on our professional judgement we determined materiality levels for each relevant part of the Report. When evaluating our materiality levels, we have taken into account quantitative and qualitative aspects as well as the relevance of information for both stakeholders and the Company.

Matter related to the scope of our review
We have reviewed the Allocation of Proceeds of the Green Funding as included in the section '4. Eligible Green Project Allocation' of the Report. The information in the remaining sections are not in scope of our review and we therefore do not provide assurance on these sections of the Report.

Responsibilities of the Board of Directors for the Eligible Green Project Allocation
The Board of Directors is responsible for the preparation of the Report including the Eligible Green Project Allocation in accordance with the Eligibility criteria as described in the Framework. It is important to view the Eligible Green Project Allocation in the context of these Eligibility Criteria.

Furthermore, the Board of Directors is responsible for such internal control as it determines is necessary to enable the preparation of the Report including the Eligible Green Project Allocation that is free from material misstatement, whether due to fraud or error.

Our responsibilities for the review of the Eligible Green Project Allocation
Our objective is to plan and perform the review in a manner that allows us to obtain sufficient and appropriate assurance evidence for our conclusion.

Our assurance engagement is aimed to obtain a limited level of assurance to determine the plausibility of the Eligible Green Project Allocation. The procedures vary in nature and timing from, and are less in extent, than for a reasonable assurance engagement. The level of assurance obtained in review engagements with a limited level- of assurance is therefore substantially less than the assurance that would have been obtained when a reasonable assurance engagement is performed.

We apply the 'Nadere voorschriften kwaliteitsmanagement' (NVKM, Regulations for Quality Management) and accordingly maintain a comprehensive system of quality management including documented policies and procedures regarding compliance with ethical requirements, professional standards and applicable legal and regulatory requirements.

Our review included among others, the following procedures:

- Performing an analysis of the external environment and obtaining an understanding of relevant sustainability themes and issues, and the characteristics of the Green Funding and the Eligible Green Project Allocation;
- Reviewing the second-party opinion from Sustainalytics which addresses the applicability of the Eligibility Criteria used in the preparation of the information in the Report;
- Evaluating the application and the consistency of the Eligibility Criteria used in the preparation of the Eligible Green Project Allocation and related disclosures in the information in the Report;
- Identifying areas of the Eligible Green Project Allocation where a material misstatement, whether due to fraud or error, are most likely to occur, designing and performing assurance procedures responsive to these areas, and obtaining assurance information that is sufficient and appropriate to provide a basis for our conclusion;
- Obtaining through inquiries a general understanding of the internal control environment, the reporting processes, the information systems and the Company's risk assessment process relevant to the preparation of the Eligible Green Project Allocation, without testing the operating effectiveness of controls;
- Interviewing relevant staff at the Company responsible for the data collection and reporting of the Eligible Green Project Allocation;
- Evaluating internal and external documentation, based on limited sampling, to determine whether the information in the Eligible Green Project Allocation is plausible and in line with the Eligibility Criteria; and
- Reading the information in the Report which is not included in the scope of our review of the Eligible Green Project Allocation to identify material inconsistencies, if any, with our understanding based on the information gathered in our review.

Amstelveen, October 1, 2025
KPMG Accountants N.V.

P.G.W. Takken RA

8. Disclaimer

This document is intended to provide non-exhaustive, general information. This document may contain or incorporate by reference public information not separately reviewed, approved or endorsed by VodafoneZiggo and accordingly, no representation, warranty or undertaking, express or implied, is made and no responsibility or liability is accepted by VodafoneZiggo as to the fairness, accuracy, reasonableness, or completeness of such information.

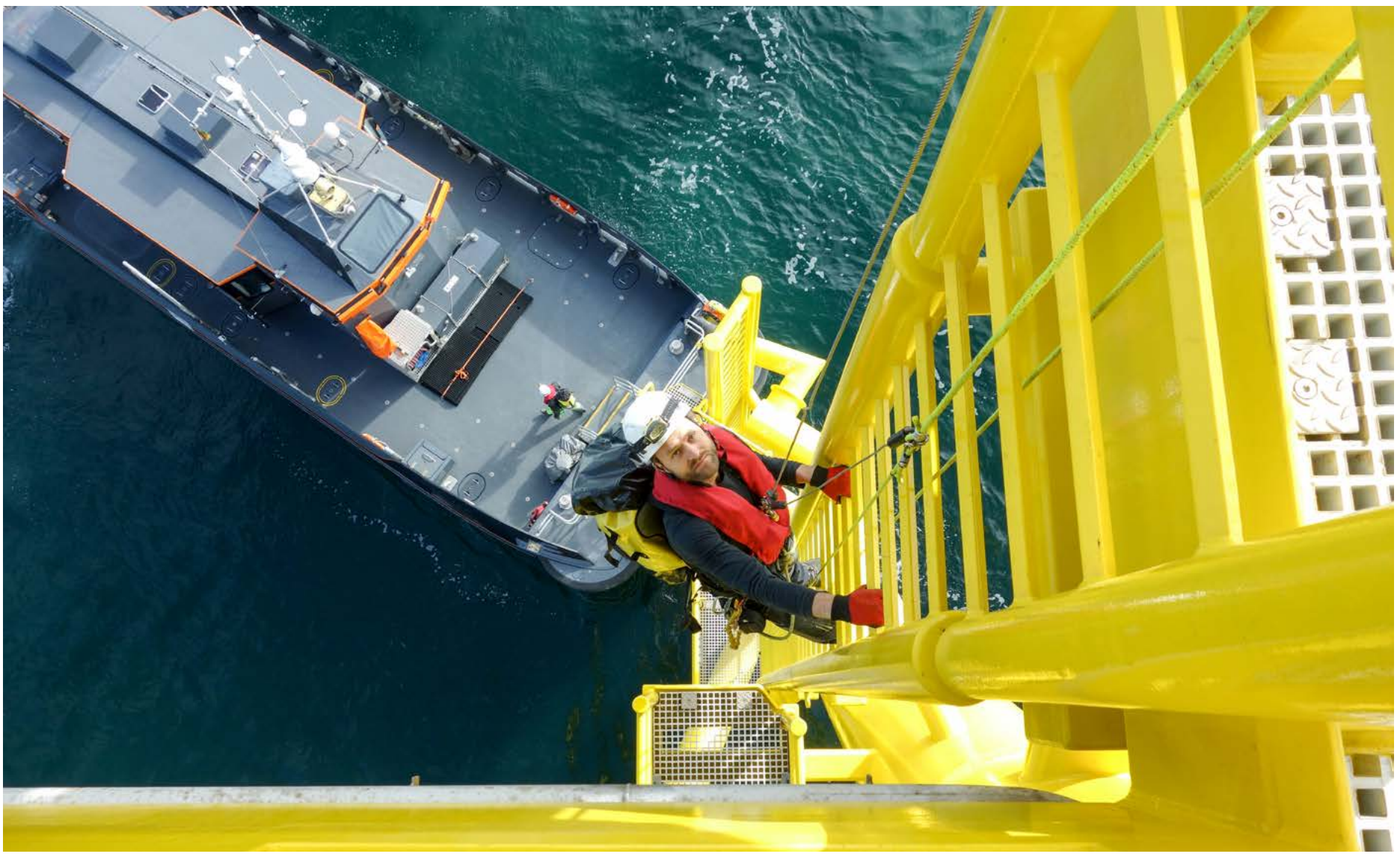
This document may contain statements about future events and expectations that are forward-looking statements. None of the future projections, expectations, estimates or prospects in this document should be taken as forecasts or promises nor should they be taken implying any indication, assurance or guarantee that the assumptions on which such future projections, expectations, estimates or prospects have been prepared are correct or exhaustive or, in the case of assumptions, fully stated in the document. VodafoneZiggo has and undertakes no obligation to update, modify or amend this document and the statements contained herein to reflect actual changes in assumptions or changes in factors affecting these statements or to otherwise notify any addressee if any information, opinion, projection, forecast or estimate set forth herein changes or subsequently becomes inaccurate.

This document is not intended to be and should not be construed as providing legal or financial advice. This document does not constitute an offering of securities or otherwise constitute an invitation or inducement to any person to underwrite, subscribe for or otherwise acquire or dispose of securities in VodafoneZiggo. Nothing contained herein shall form the basis of any contract or commitment whatsoever and it has not been approved by any security regulatory authority.

The distribution of this document and of the information it contains may be subject to legal restriction in some countries. Persons who might come into possession of it must enquire as to the existence of such restrictions and comply with them.

The addressee is solely liable for any use of the information contained herein and VodafoneZiggo shall not be held responsible for any damages, direct, indirect or otherwise, arising from the use of this document by the addressee.

References to VodafoneZiggo are to VodafoneZiggo Group Holding B.V. Other product and company names mentioned herein may be the trademarks of their respective owners.



9. Appendix – green bond eligibility criteria

A list of eligible green projects that may be considered by VodafoneZiggo is shown below:

GBP category	Eligible Projects	SDG mapping
Renewable Energy	– Initiatives to improve the energy mix through energy agreements focussed on European windfarms, and investment in electricity generation from renewable sources such as solar and wind	
Energy Efficiency	**Internet of Things –** development and operation of networks, services and products that are specific to enabling IoT, helping our customers to manage energy more efficiently and reduce their emissions 1. **Network and platform projects** that enable IoT such as, but not limited to: – Low Power Wide Area ("LPWA") communication. The two key LPWA technologies are Narrowband IoT ("NB-IoT") and LTE for Machine Type Communications ("LTE-M"). In combination with Vodafone Group IoT Connectivity Platform and Global SIM, these investments support industry automation, smart metering, smart lighting, smart cities, sharing economy (e.g. shared bikes) etc – Mobile Private Networks ("MPN") support various sectors and industries dealing with sensor data monitoring, tracking, robotics, self-driving or autonomous guided vehicles ("AGVs"), connected workers and more – Multi Access Edge Computing ("MEC") moves the cloud closer to the device, reducing latency, increasing speeds and near real-time decision making, with no need to cross the network. Furthermore, computing can be moved off device to more efficient edge servers 2. **IoT solutions and products** offering both platform and end-to-end solutions such as, but not limited to: – Utilisation of big data and artificial intelligence to create a platform with a comprehensive development toolset enabling solutions that contribute to maximise energy efficiency, such as: smart data, smart metering, smart agriculture, logistics, mobility, fleet management and smart cities 3. **Invest and operate energy saving software to improve energy efficiency of everyday operations. Examples include, but are not limited to:** – Remote management and data management applications – Machine learning and artificial intelligence ("AI") applications to reduce energy consumption – Evaluation of Self Organizing Network ("SON") including AI dynamic power management (active network demand pattern recognition to dynamically switch between power modes) – Servers virtualization, Radio Access Network ("RAN") sharing and further power saving features 4. **Network transformation (both fixed and mobile networks) that results in energy efficiency, including but not limited to modernisation of network related to broadband, video and telephony services, as well as energy efficient data centers and rationalization of passive network infrastructure. Examples include, but are not limited to:** – Modernisation of Customer Premise Equipment including cooling optimization, efficient power amplifier, modernization of active antenna and projects related to digital process transformations – Retrofitting of legacy networks for fixed and mobile, including placement of legacy radio equipment and investments in 'PowerCube' hybrid technology, which integrates energy supply with onsite battery storage, lithium-ion, lead carbon, flow batteries, fuel cells and large scale energy storage – Giganet: Shutting down old analogue technology, improving our spectrum efficiency by expanding fixed spectrum bandwidth to 1.2 GHz and acquiring new mobile spectrum licenses enabling 5G, replacing EuroDocsis 3.0 while implementing Docsis 3.1 and future network upgrade technologies – Increasing energy efficiency & reducing energy consumption through the decommissioning & consolidation of fixed and mobile network sites, and reduction in floor space	  

GBP category	Eligible Projects	SDG mapping
	– Energy Efficient Measures including, not limited to: upgrade properties to improve Power Usage Effectiveness ("PUE") with a targeted PUE of <1.5 by 2025, power & cooling optimisation, use of base station free air cooling (e.g. adiabatic), smart metering solutions, smart energy management, LED lighting, Infrastructure optimization, and reduction overall location footprint – Energy efficient data centres that are certified to ISO 14001 and comply with the expected practices of the European Code of Conduct on Data Centre Energy Efficiency and ISO 50001	
Clean transportation	– Electric vans and bikes for technicians – Green lease policy allowing new electric vehicle lease cars only as of 2022	
Circular economy adapted products, production technologies and processes and/or certified eco-efficient products	– Initiatives to support the recycling of packaging – Initiatives to reduce E-waste (e.g. refurbishing and recycling of set up boxes and mobile phones) – Initiatives to reduce plastic usage and/or waste in the value chain	 
Green Buildings	– Ensure that buildings are certified in accordance with "recognised energy saving measures" at a minimum C rating by 2023 – Invest in New Build Office buildings that have an energy label of A+