

## Use of proceeds

- Eligible investments: **Energy Efficiency** in the network transformation, from **copper to fibre optic** (fixed network) and **5G deployment** (mobile network), and also **self-generation of renewable** energy, according to [Telefónica's SDG Framework](#) (last updated January 2021).
- Investments for green projects consist of shutting down legacy units, deploying and upgrading network infrastructure, and placement optimisation.
- Eligible investments refer to new investments made after issuance as well as investments made 2 years prior to issuance.

## Green projects' impact

- New **fibre optic and 5G infrastructure**, as part of the network's transformation, as well as **renewable energy**, are key contributors to Telefonica's emissions reduction target to **reduce scopes 1+2 GHG emissions by 90% in absolute terms in 2025 in our 3 main markets**.
- Telefonica has global **targets** on energy and climate change **aligned with the 1.5° scenario** (validated by **Science Based Target Initiative<sup>2)</sup>** and the electricity it consumes in its main markets is already **100% renewable**.
- **Migrating clients to fibre optic reduces the environmental impact of networks by reducing energy consumption** (85% more efficient per customer); as well as reducing the need for cooling systems; reducing the need for buildings by 50%; and reducing the overall maintenance needs of the networks – all of which result in GHG emissions reductions.
- 5G technology is expected to represent an unprecedented, disruptive, technological change in many different economic sectors and in society over the next decade. It is up to 90% more energy efficient than 4G in terms of energy consumption per traffic unit and has much more capacity, so it will be able to provide increased services with a lower energy consumption than 4G<sup>3</sup>.

## Annual reporting

- Telefonica will provide impact reporting metrics on Green Projects, such as:
  - energy consumption per data traffic (MWh/PB)
  - energy saved (MWh)
  - estimated GHG Emissions avoided (tCO<sub>2</sub>eq)
- Reporting will be made publicly available on our [website](#), starting within a year after the issuance and on an annual basis until proceeds are fully allocated.
- Third-party auditors will ensure the allocation and impact reports are consistent with Telefónica's SDG Framework.

### Impacts<sup>1</sup>

**+115,000** tCO<sub>2</sub> avoided emissions

**+470,000** MWh of energy saved

**-86%** consumption of energy/traffic (MWh/PB) in fixed network in Spain

### SDG contribution

This issuance contributes to the achievement of the UN SDG



**7.2** By 2030, increase substantially the share of renewable energy in the global energy mix

**7.3** By 2030, double the global rate of improvement in energy efficiency



**9.4** By 2030, upgrade infrastructure and retrofit industries to make them sustainable, with increased resource-use efficiency and greater adoption of clean and environmentally sound technologies and industrial processes

1. Cumulative environmental impacts of the bonds issuances whose allocation report have already been published: [green bond issued in February 2019](#), [green hybrid issued in February 2020](#), [sustainable hybrid issued in February 2021](#), and [sustainable hybrid issued in November 2021](#).

2. The [Science Based Targets Initiative](#) is joint initiative of the UN Global Compact, Carbon Disclosure Project, World Resources Institute and WWF.

3. Based on several on-site research carried out with different vendors. <https://www.nokia.com/about-us/news/releases/2020/12/02/nokia-confirms-5g-as-90-percent-more-energy-efficient/> or <https://www.telefonica.com/en/communication-room/blog/telefonica-makes-progress-in-the-design-of-a-green-5g-network/>