



1 February 2024

# Towards net-zero emission of T&D grids







# TenneT presentation Cigre event 1 Feb 2024

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Head of Strategy





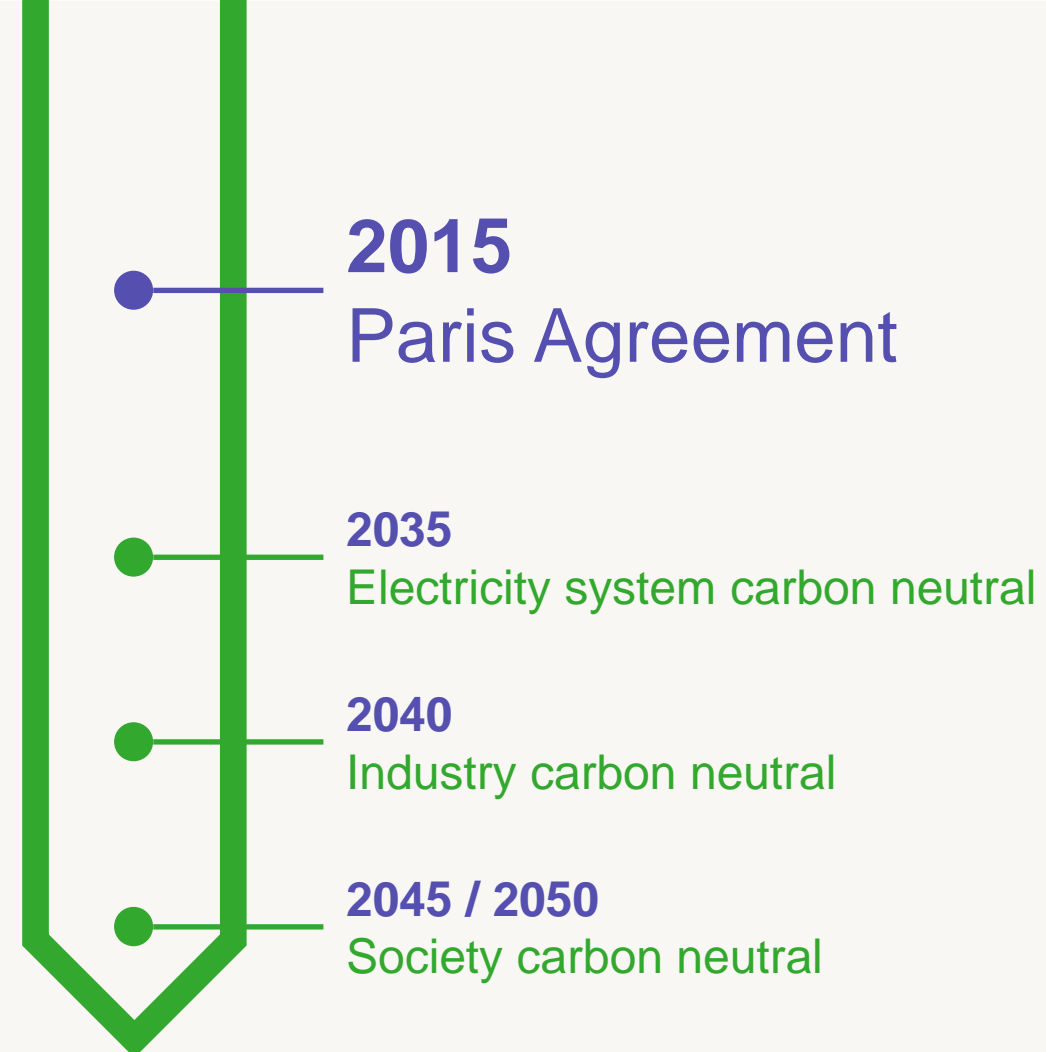
## The Paris Agreement

A legally binding international treaty on climate change

This marked our journey towards climate neutrality

Before 2040,  
the onshore grid  
needs to be ready

In order to enable this, TenneT  
needs to **accelerate** now.

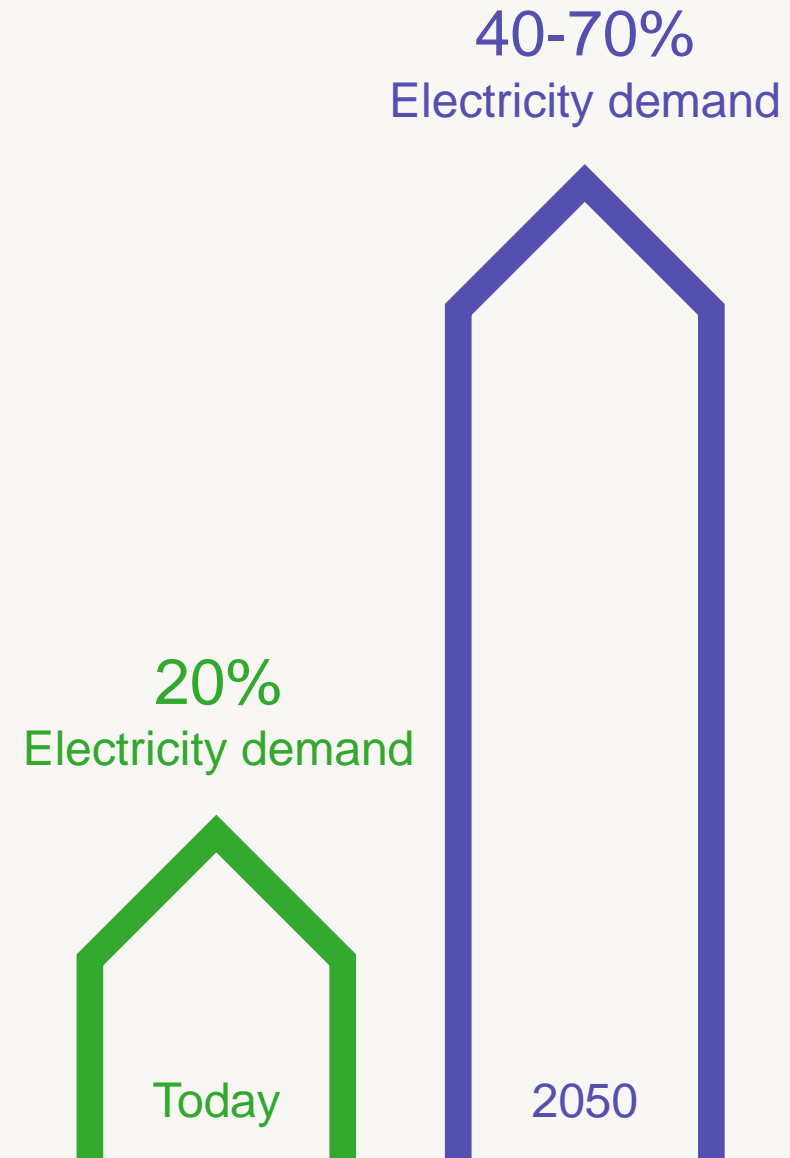


To hit these  
targets, Europe  
needs rapid  
electrification

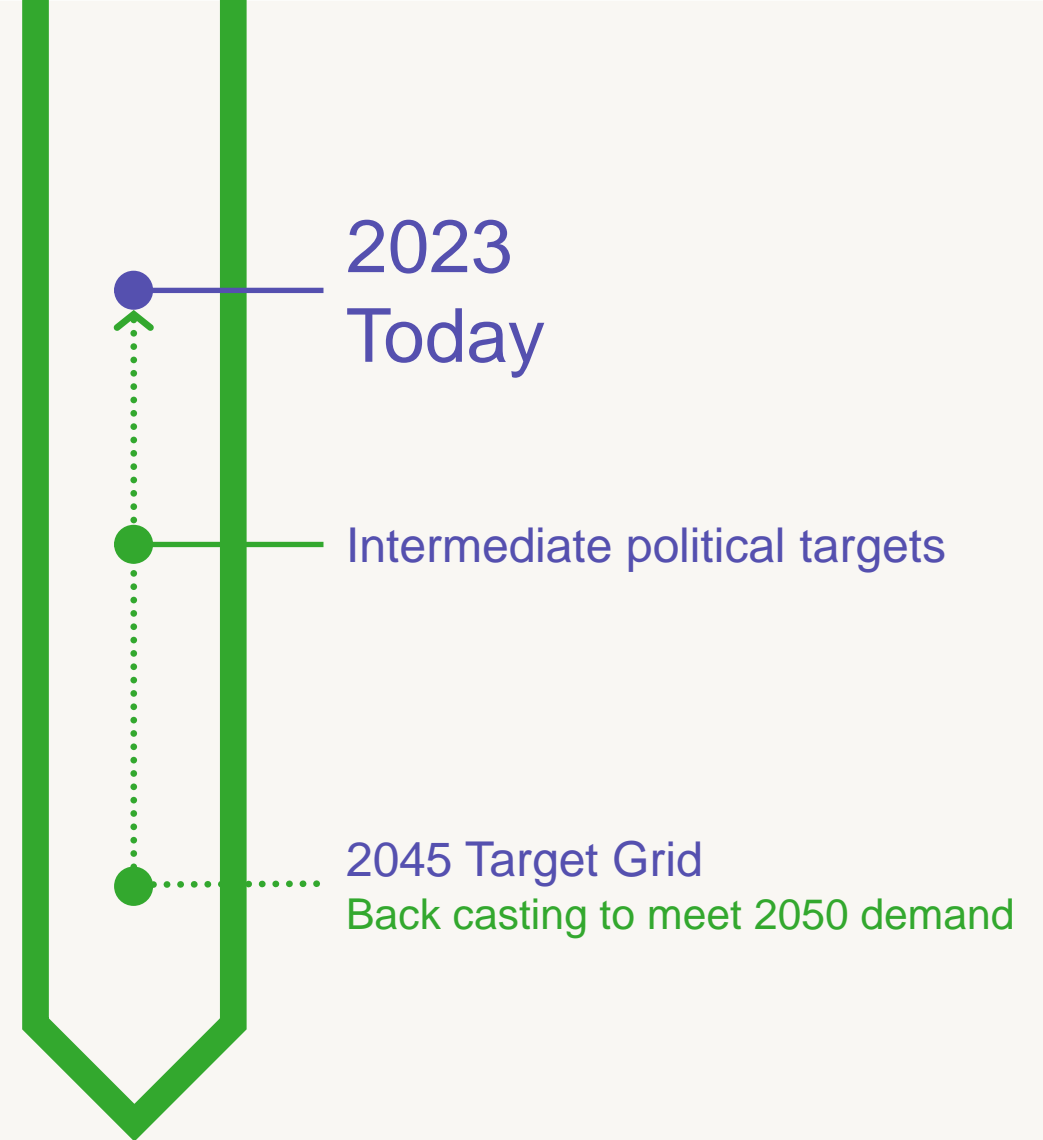
In industry, mobility  
and households

The energy transition is moving faster than the lead times we need to adapt our grid.

In order to enable this, TenneT needs to **accelerate**.



We need to set course with Target Grid to respond to the growing electricity demand.





## Target Grid Strategy

Start preparing for 2045  
and build future proof



By designing and preparing  
Target Grid for the highest  
electrification scenario,  
TenneT is preparing itself  
for all scenarios.

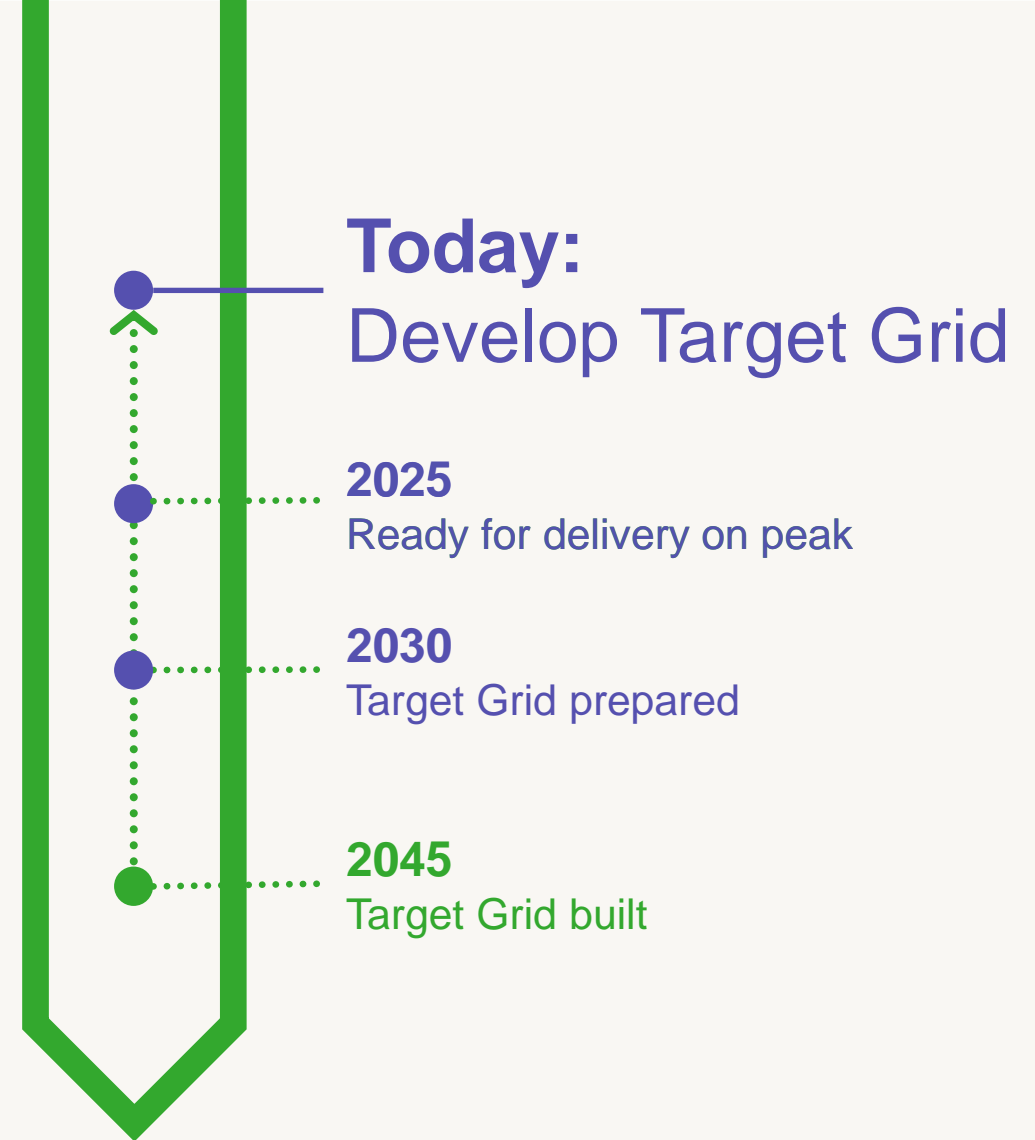


## Start preparing towards 2045

**Designate** energy corridors

**Acquire** spatial permits

**Strategic** land acquisition





## Build future proof

Building infrastructure  
directly for the final picture:

Allows acceleration of **electrification**

**Less impact** on environment

**Spatial** optimization



# Target Grid design

Our design principles guide us in shaping our future cross-border electricity infrastructure

## Driven by society

Based on existing plans and scenarios: NEP 2023 B-scenario; II3050 Nationaal Leiderschap ex. Synfuels



## Efficient

Building a reliable, energy and cost efficient network



## Innovative

Integrate innovations in technology and regulation







# Responsibility

As TenneT plays our part in leading the transition to a greener future, we also **aim to lead as a green and responsible grid operator** in how we conduct our own business




# Develop and grow sustainably

Although the urgency to develop a zero-carbon energy system has never been greater, **we must develop our infrastructure in a sustainable manner**







Therefore we make  
sure responsibility  
is woven into  
**everything** we do

# Responsibility is woven into everything we do

## How do we do that?

We have a clear strategy with relevant promises for CSR in place

We specified long-term ambitions and targets in line with our strategy

We monitor our achievements and learn from gained insights

And...

We are eager to work together with our stakeholders

We have a lot more information ready to share with you



# Responsibility is woven into everything we do

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# Our Sustainability Strategy

We strive to enhance the energy transition in a sustainable manner, leading the way in maximizing our societal contribution and minimizing our impact as a transmission system operator (“TSO”)

1

We contribute to society, creating maximum impact for **people** working for us and impacted by us



2

We commit to the environment, avoiding, minimizing and compensating our impact on the **planet**



3

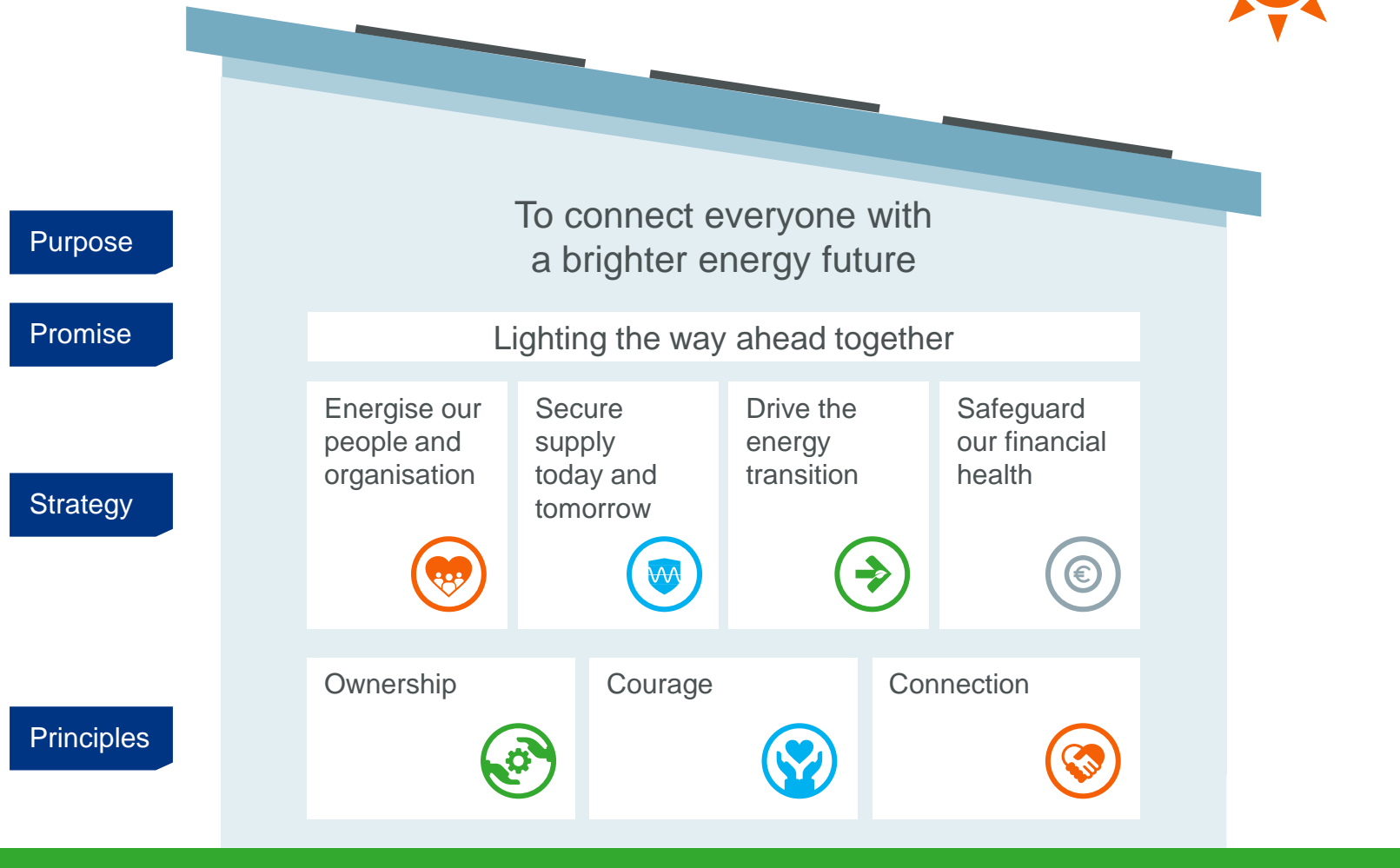
We strive for a profit which provides an adequate **return** on capital and an affordable cost of electricity supply for society






# Integrate CSR in the organisational DNA

## Our CSR philosophy



# Our promise to our People

- Our targets are set for our own operations
- We include our ambitions in our work with suppliers & contractors

Ambition	Description	
<b>Society</b>	<ul style="list-style-type: none"><li>■ We address our stakeholders' concerns by living up to our values, i.e. being responsible, engaged and connected</li></ul>	
<b>Diversity</b>	<ul style="list-style-type: none"><li>■ We recognize diversity as a key contributor to our success as a high-performing organisation</li></ul>	
<b>Safety</b>	<ul style="list-style-type: none"><li>■ Safety is our number one priority in every activity that we undertake</li></ul>	




# Our promise to our Planet

- Our targets are set for our own operations
- We include our ambitions in our work with suppliers & contractors

Ambition	Description 
Circular	<ul style="list-style-type: none"><li>■ Circularity is minimizing use of scarce materials, reusing materials and reducing waste in our operations</li></ul>
Climate	<ul style="list-style-type: none"><li>■ Climate impact of our operations is our responsibility and we strive to reduce our impact</li></ul>
Nature	<ul style="list-style-type: none"><li>■ Our commitment to nature is to take our responsibility to minimise our impact and protect and improve local nature</li></ul>

# Our promise to our Profit

- Our targets are set for our own operations
- We include our ambitions in our work with suppliers & contractors

Ambition	Description	
Profitability	<ul style="list-style-type: none"><li>■ Profitability and return on capital (how effective is TenneT in turning capital into profit) are important to remain attractive for capital providers in order to finance our business and anticipated growth</li></ul>	



# Responsibility is woven into everything we do

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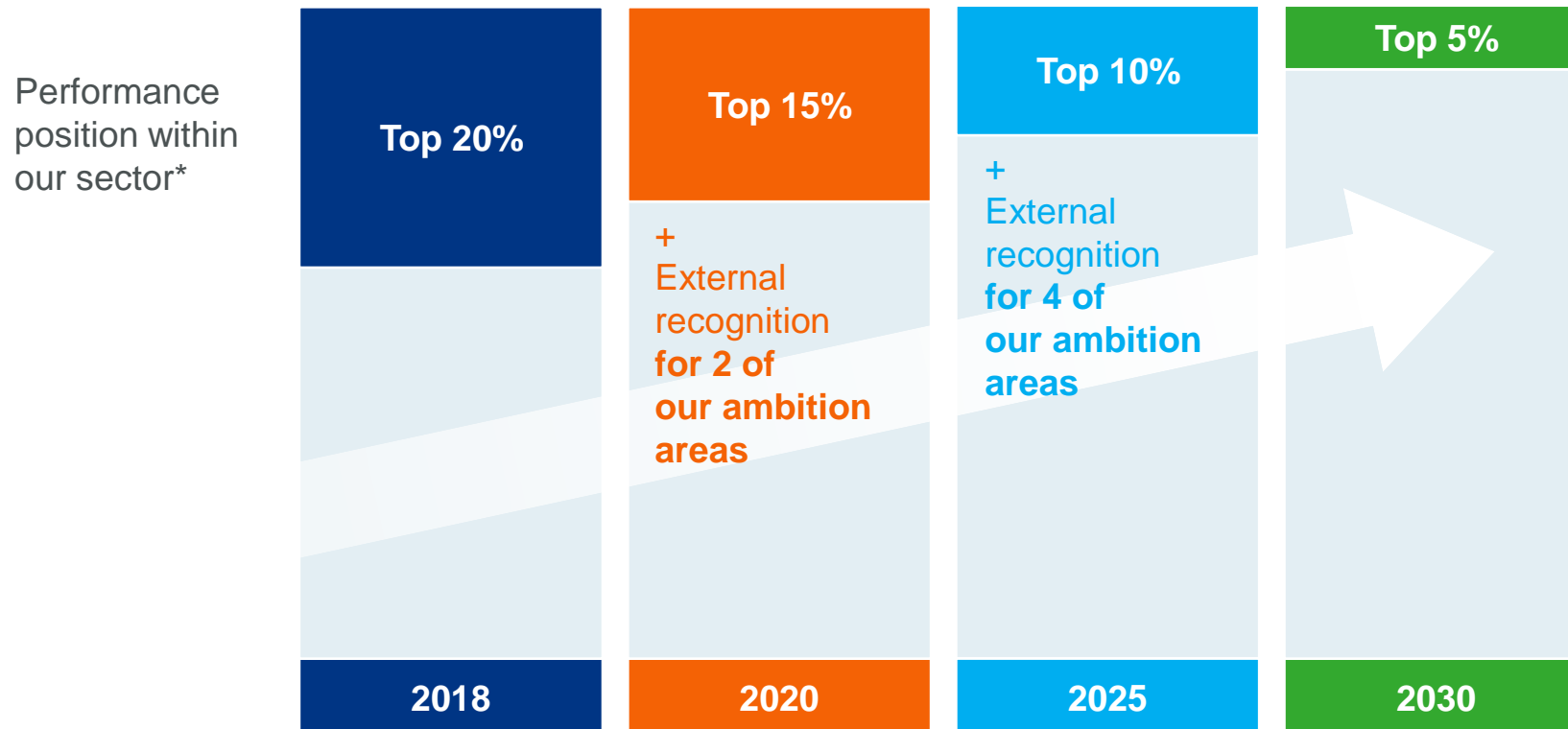
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# Our CSR ambitions timeline

In 2030: Performance within top 5% of our sector



\* As at 26 March 2018, this rating puts TenneT Holding BV in place 5 out of 28 companies rated by oekom research in the sector Utilities / Network Operators



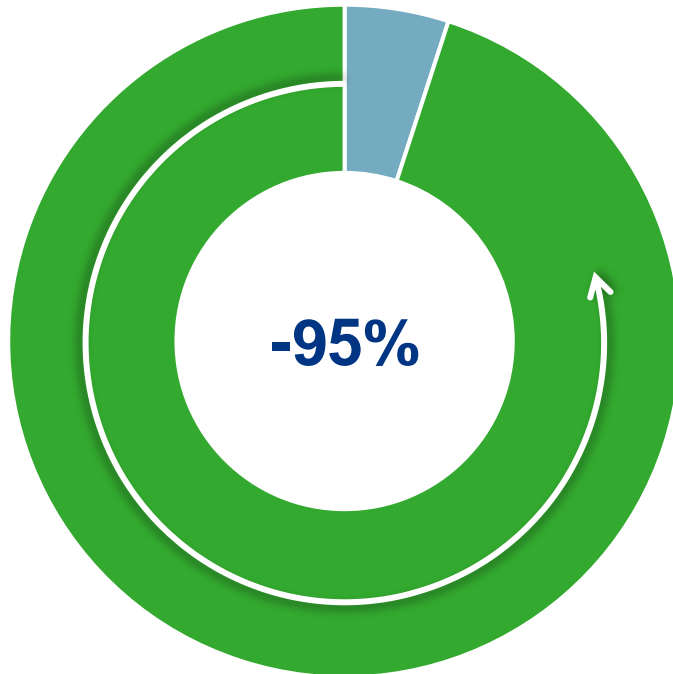
# Green finance Achievements

Leading  
green bonds  
issuer

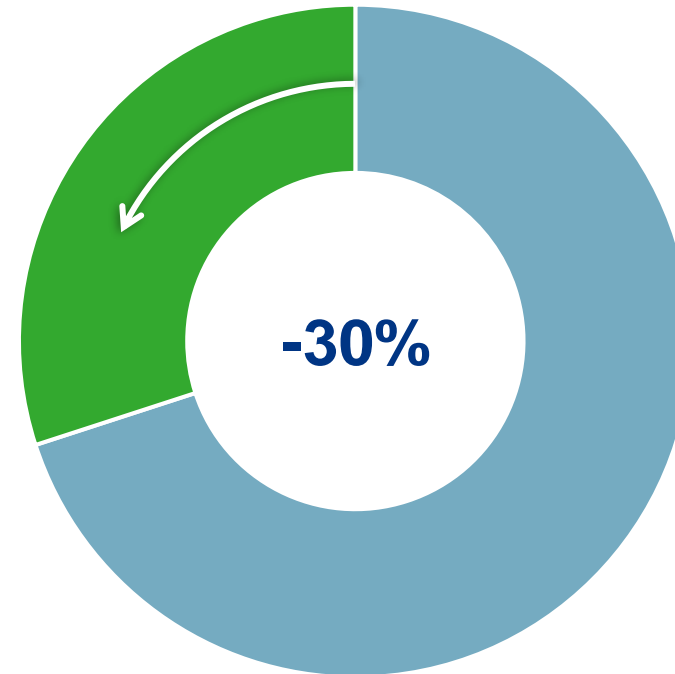
Click here  
for more  
information

# Our climate targets are in line with the Paris agreement And approved by science based targets initiative (SBTi)

Reduce our absolute **scope 1 and 2**  
greenhouse gas emissions **by 95% in 2030\***



Reduce our absolute **scope 3**  
greenhouse gas emissions **by 30% in 2030\***

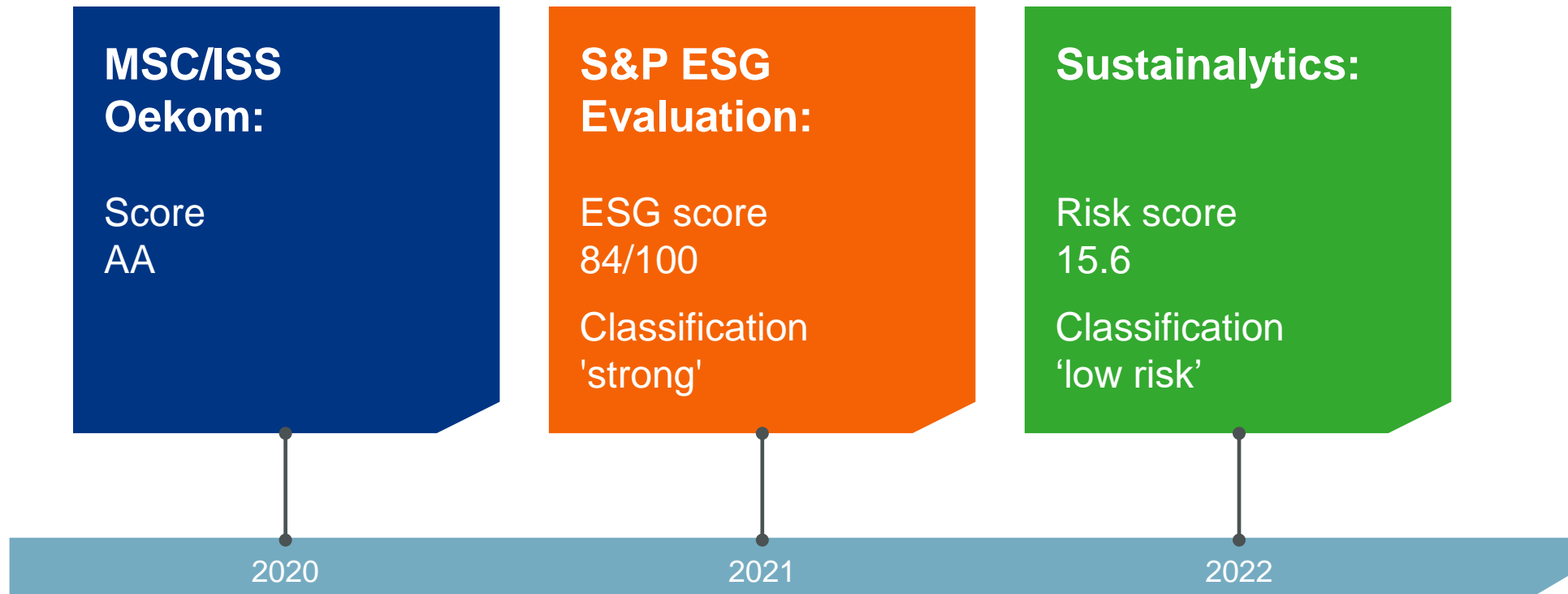


\* Compared to 2019 baseline



# CSR ratings and rankings

## Where are we today



# Targets

## People, Planet, Profit

Ambition	Target People	Ambition	Target Planet	Ambition	Target Profit
<b>Society</b>	<ul style="list-style-type: none"> <li>To be developed</li> </ul>	<b>Circular</b>	<b>In 2025</b> <ul style="list-style-type: none"> <li>25% less impact on virgin copper</li> <li>Use and non-recyclable waste</li> </ul>	<b>Profitability</b>	<ul style="list-style-type: none"> <li>Return on capital <math>\geq</math> regulatory determined return on capital (KPIs: return on invested capital (ROIC) and return on equity)</li> </ul>
<b>Diversity</b>	<b>In 2023</b> <ul style="list-style-type: none"> <li>Executive &amp; Supervisory Board 30% female</li> <li>New management hires 22% female</li> <li>TenneT population 22% female</li> </ul>	<b>Climate</b>	<b>In 2025</b> <ul style="list-style-type: none"> <li>Climate neutral</li> </ul> <b>In 2030</b> <ul style="list-style-type: none"> <li>Absolute emission reduction by 95% in scope 1 &amp; 2</li> <li>Absolute emission reduction by 30% in scope 3</li> </ul>		
<b>Safety</b>	<b>In 2020</b> <ul style="list-style-type: none"> <li>TRIR &lt; 3.2</li> </ul>	<b>Nature</b>	<b>In 2025</b> <ul style="list-style-type: none"> <li>Zero impact (net) on nature</li> </ul>		



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