

## 1 February 2024

## Towards net-zero emission of T&D grids



# **Climate action** integral part of the Elia Group Strategy



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## Who are we?



## This is Elia Group

### From European key player to valuable global partner to drive the energy transition





# Sustainability fully integrated into corporate strategy



### From our strategic pillars of growth to ActNow

### **Our vision**

"A successful energy transition for a sustainable world"

### **Our mission**

"In the interest of society, we make the **energy transition** happen to **decarbonise Europe** by delivering the needed power infrastructure and shaping the European markets.

We **keep the lights on** by operating a reliable and **sustainable** system and innovate to **meet evolving consumers' needs** in an efficient way and to protect people's safety. We create further **value for society** in the changing energy landscape."





### **The ActNow Program**

### Setting our sustainability ambitions along five dimensions





## Sustainability at the core of our business



#### ActNow as an integral part of the Elia Group Strategy and its **implementation via Business Roadmaps & Business Planning** Business Roadmaps elia group **5** Dimensions **Group Action Plan** Dashboard incl. joint KPIs **Climate Action** 5.9 **Environment & Circular Economy** 2 $\mathbf{\tilde{\mathbf{D}}}$ Health & Safety 3 FOR A SUSTAINABLE WORLD 4 Diversity, Equity & Inclusion Governance, Ethics & Compliance 5 Local Roadmaps Milestones & Approach elia 50hertz Business Planning Powering a world in progress

9





3

(4)

2

5

# **O** Climate Action

# While we recognize our biggest impact is decarbonizing the power sector, we decided to go one step further





#### Elia Group as a proponent of Electrification

- Most efficient & cheapest way to meet energy demand on the road to net zero in 2050
- ✓ Allows more renewable electricity sources onto the grid
- Increases potential flexibility sources, such as EVs, assisting Elia in managing the grid

How do we decarbonize the power grid?

- Grid development
- Market development & system operations
- Electrification

## Our 5 climate action objectives



(5)

(2)

(3)

4







## Local roadmaps own activities (Obj.3): Substations



#### ETB emissions "Own activities"



1. Reduction	n potential
Scenario	Reduction (GWh/y)
Existing roof renovation (BAU)	1,3 (- 5%)
+ Change heating	6,7 (-25%)
+ RES (solar panels)	12,7 (-48%)
+ Acc. roof renov.	14,7 (-56%)

2. Cost - benefit

70

-3,3%

2,9%

7,6%

11,8%

IRR [%]

Electr.

price

[€/MWh]

50

100

150

200

Carbon cost [€/ton]

250

1,3%

6,2%

10,6%

14,7%

1.000

14,3%

18,5%

22,9%

27,7%

150

-1,1%

4,5%

8,9%

13,1%

#### 3. Final scope & roadmap by 2030

Measures	Buildi	ng type
	new	existing
Heat pumps	х	
Climate control	х	х
PV on ground		х
PV on roof	х	х

 45.000 m<sup>2</sup> of PV
 #780/ 130.000 m<sup>2</sup> buildings with climate control







### Towards a carbon neutral value chain (Obj. 4) - construction works

#### Tracking emissions from works

- 8 pilots different type of projects (cable, line & substations)
- CO2 simulators (based on standards)
- Integrate in Accounting platform
  (merge with purchased equipment)

#### **Evaluate reduction potential**

- ✓ Identify main impacts
- Develop reduction measures
- Setting **reduction targets**





## Thank you.





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