

Electricity and Energy Security - ENTSO-E's Perspective

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ENTSO-E Board Member Kristin Munthe

Introduction

In a fast-changing geopolitical environment, our coordinated power system is the backbone of the Internal Energy Market.



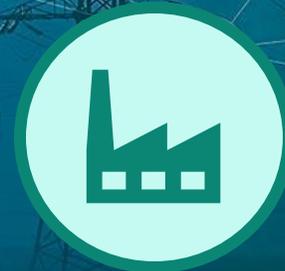
TSOs are regulated monopolies with public service mandates



TSOs plan and develop the **transmission grid**



TSOs balance demand and supply in **real time**



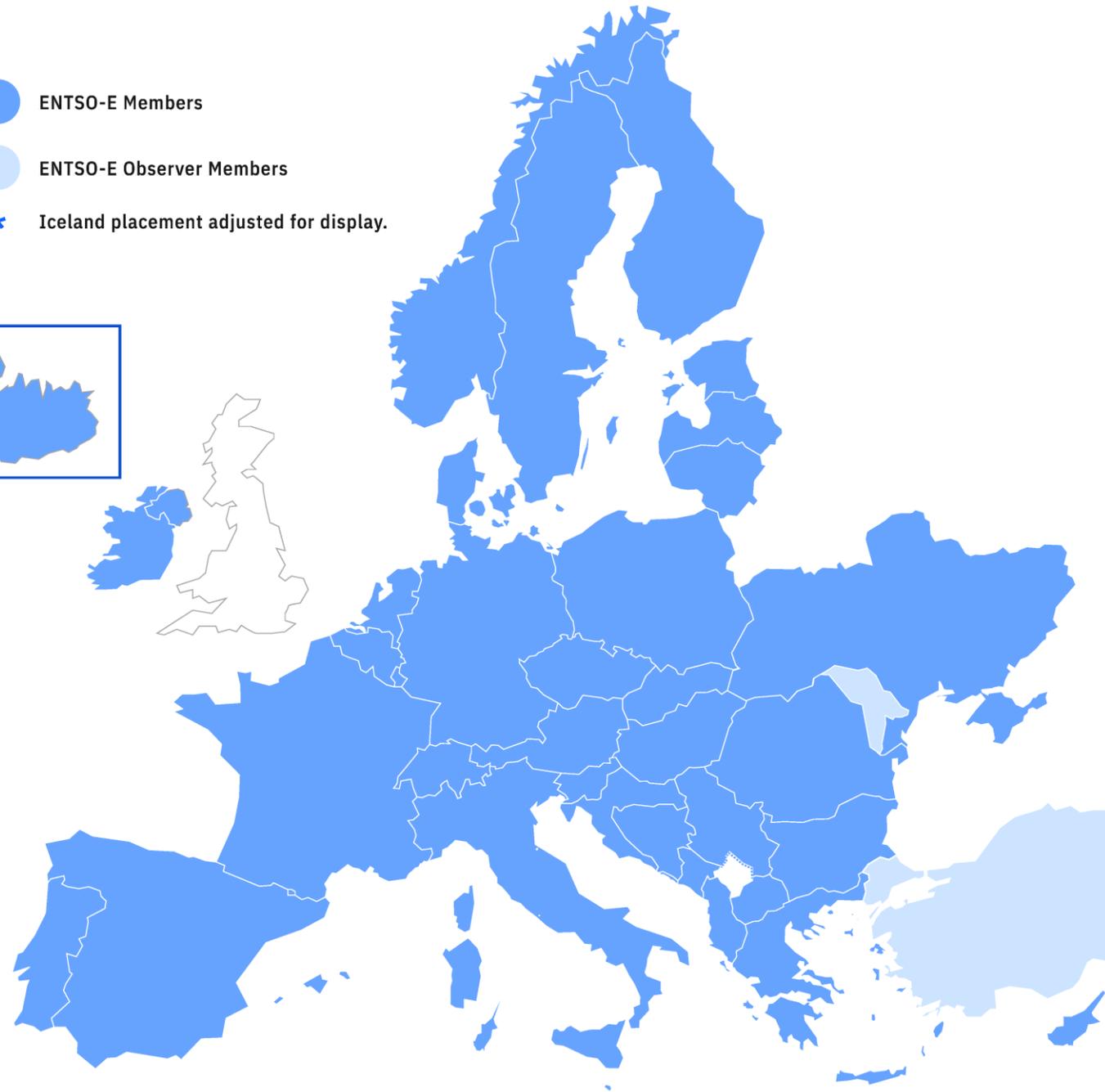
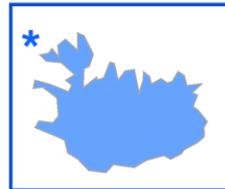
ENTSO-E

40 TSOs from **36** countries

500.000 km of transmission lines

520 million citizens

- ENTSO-E Members
- ENTSO-E Observer Members
- * Iceland placement adjusted for display.



ENTSO-E's Purpose

To Power Society and Enhance Cooperation



Arena for cooperation
represents **TSOs** at the
European level.



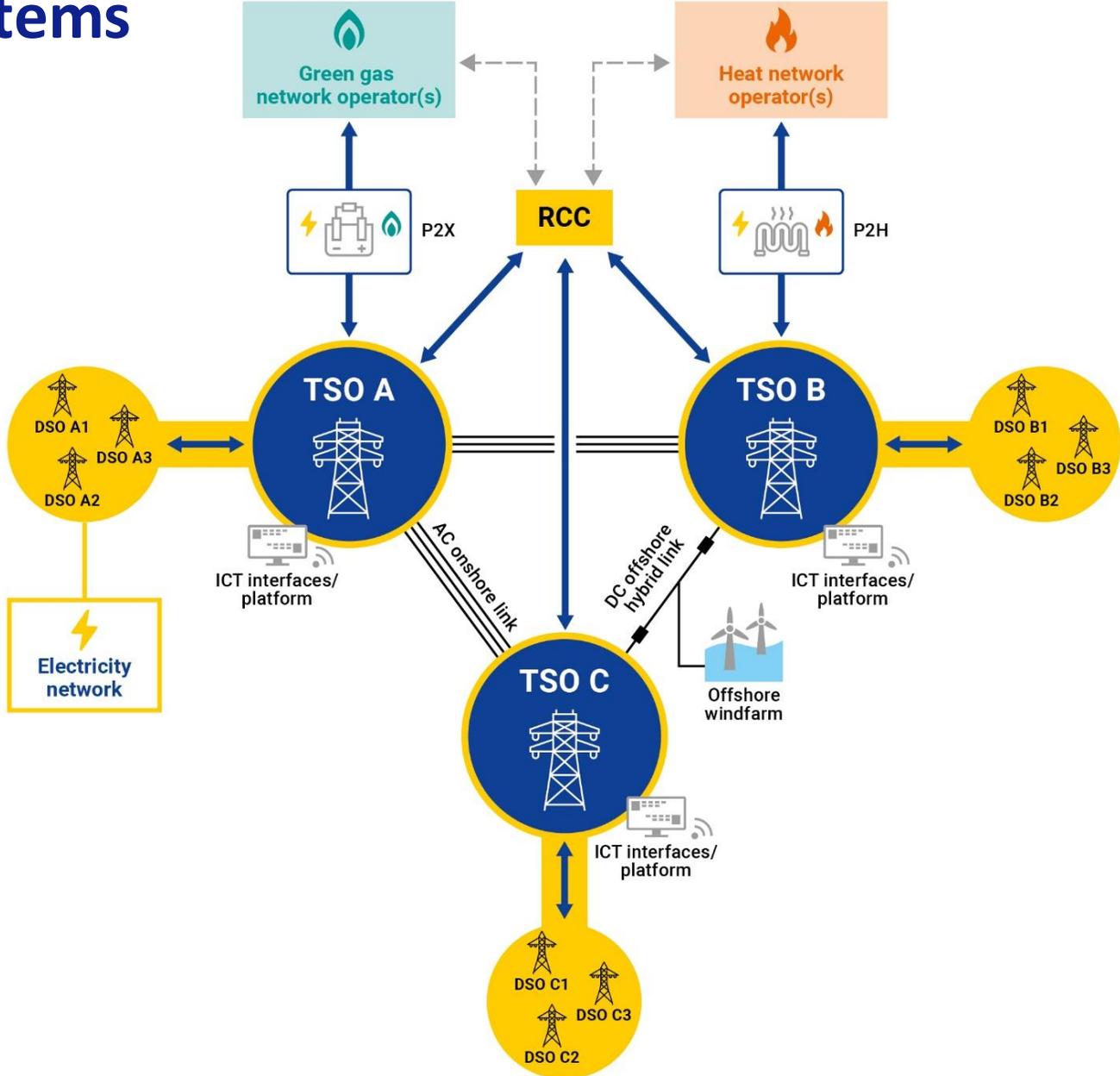
Helps TSOs **implement
and monitor** common
rules and EU legislation.



Legally mandated tasks

- Adequacy analysis
- Develop **technical rules**
- Coordinate long-term **grid planning**
- Develop and operate **common data platforms**

System of Systems



Electricity Grids: Europe's Backbone for the Energy Transition

**> €800
Bn**

Investment needed by 2050
for cross-border transmission
grids.

2 for 1

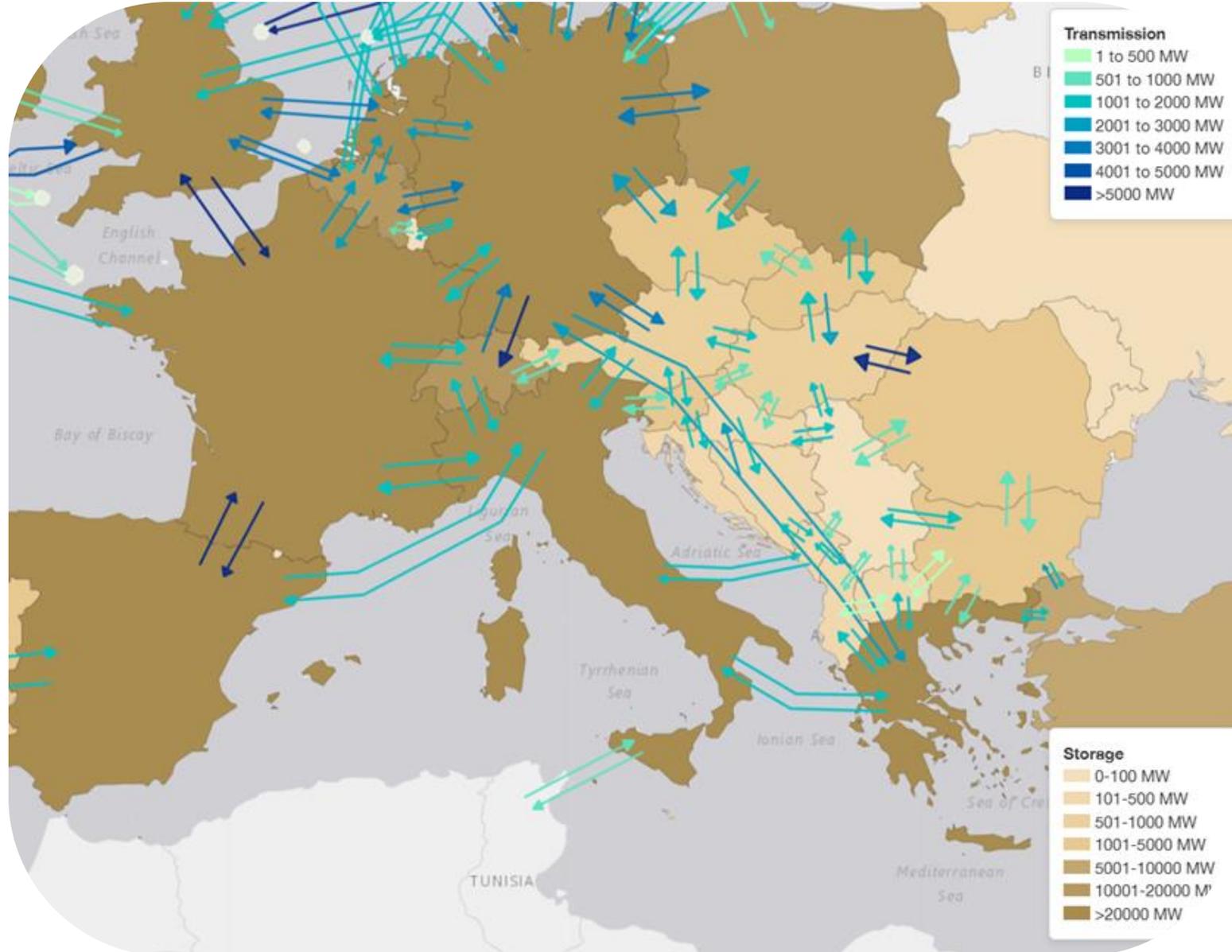
Every €1 invested saves €2 by
2040.

**€49.5 Bn
Per Year**

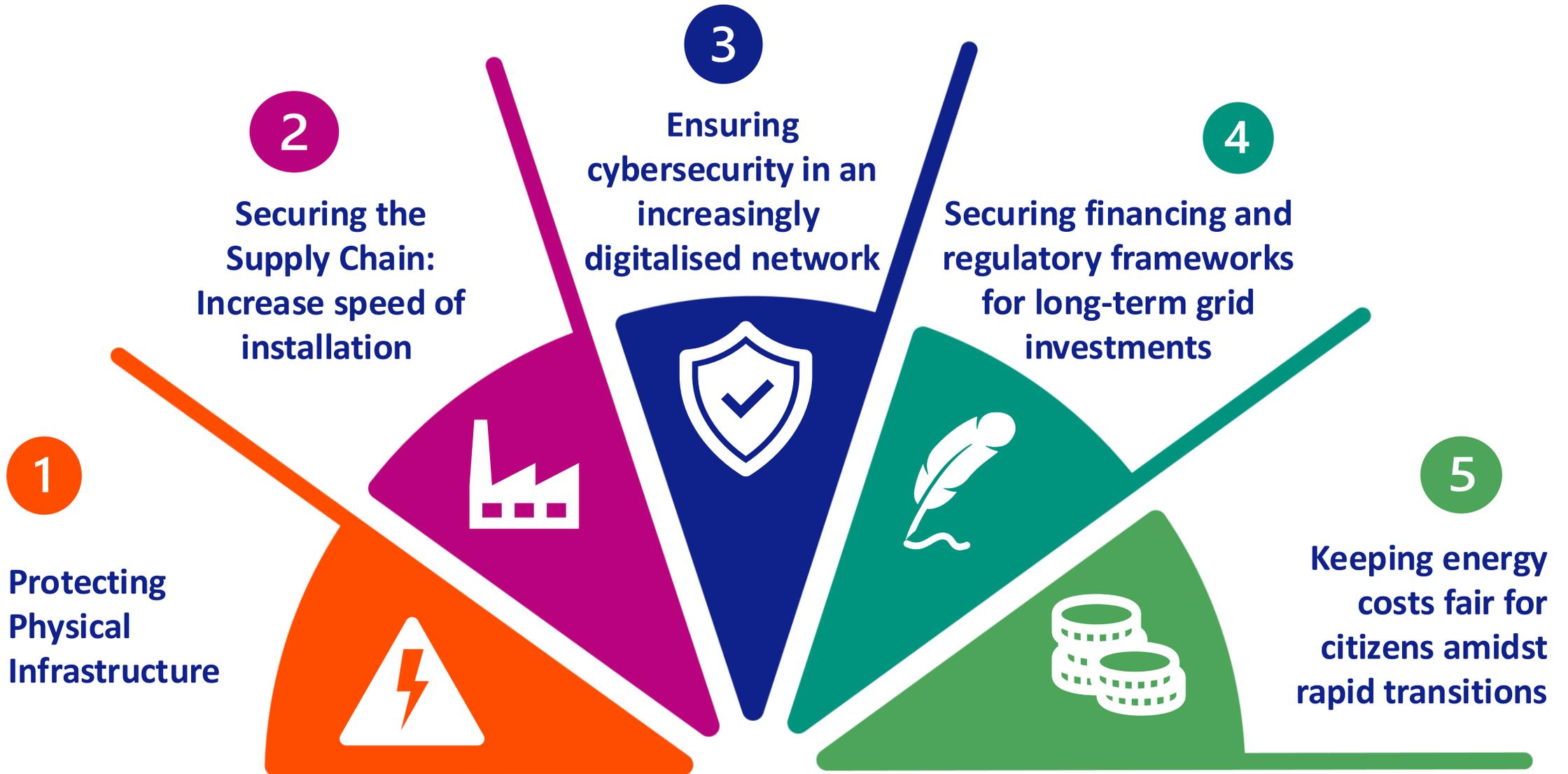
Increase in energy bills by 2040, if
we stopped investing in cross-
border infrastructure after 2030.



Enabling Massive RES Integration in SEE



Key Challenges for transmission development



Conclusion

Without grids, there is no secure and affordable Europe.

