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Energy Transition:
Towards the Final Energy Mix in 2050

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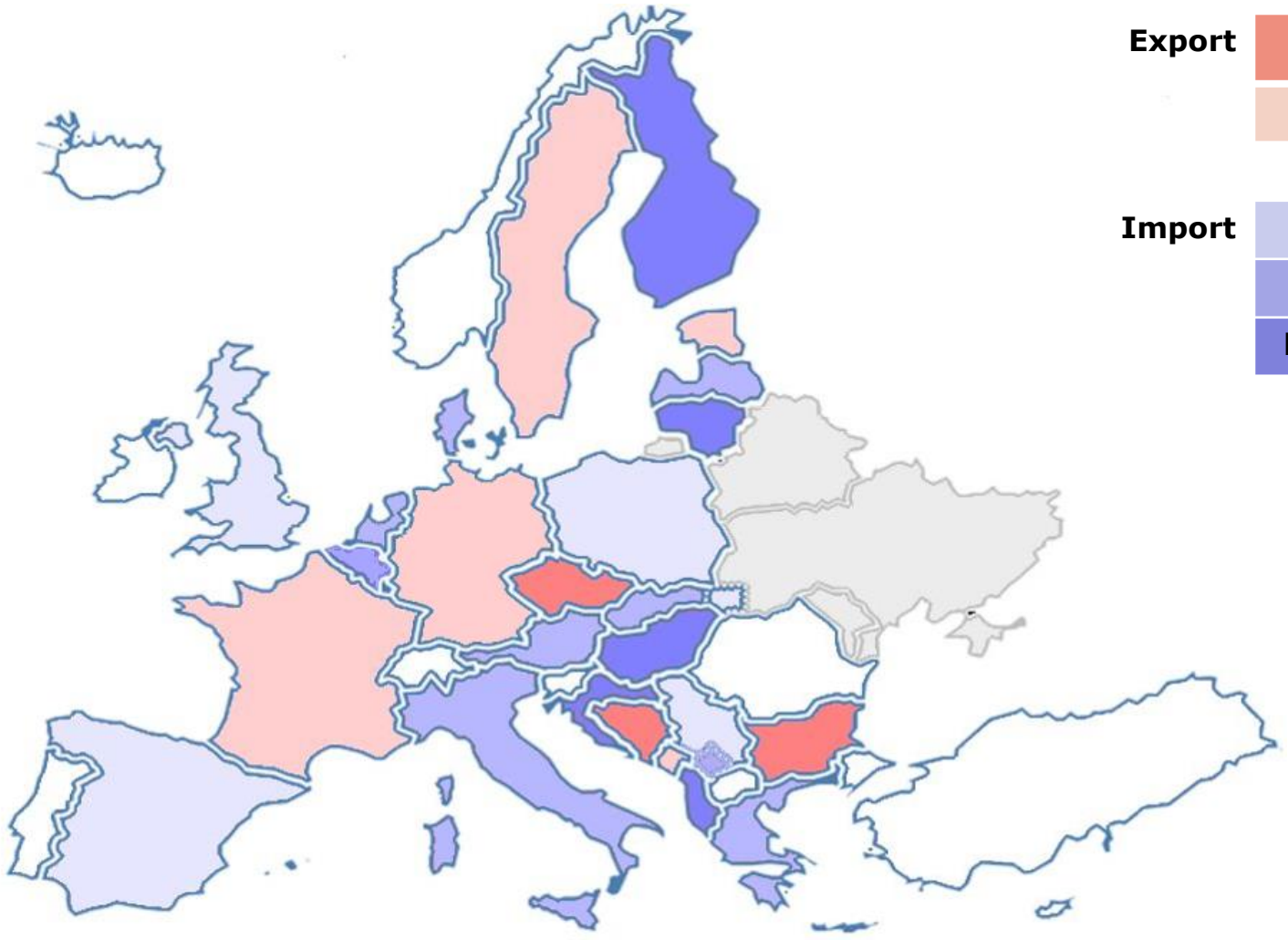
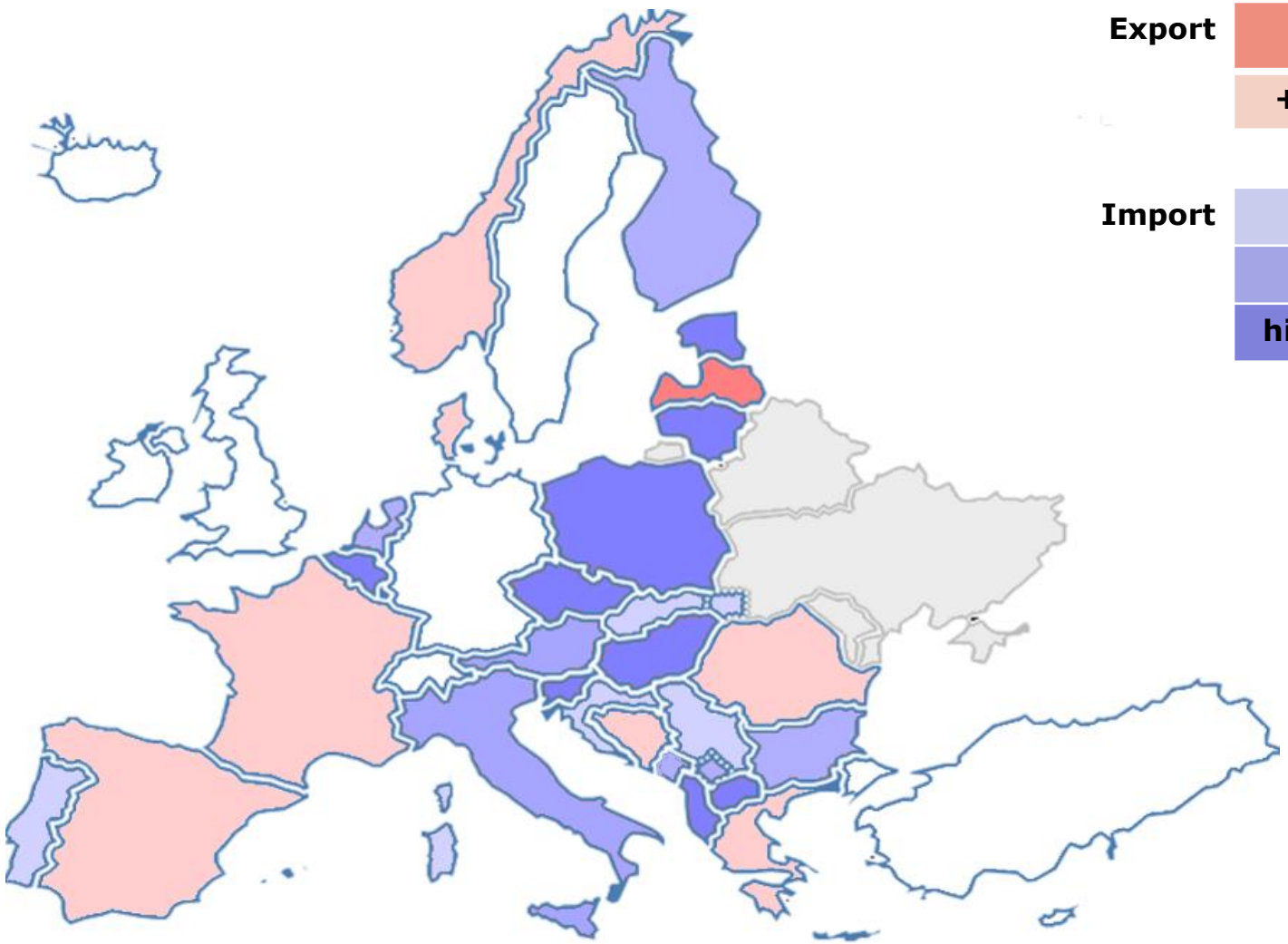
POWER GENERATION ADEQUACY IN EU COUNTRIES IN 2018

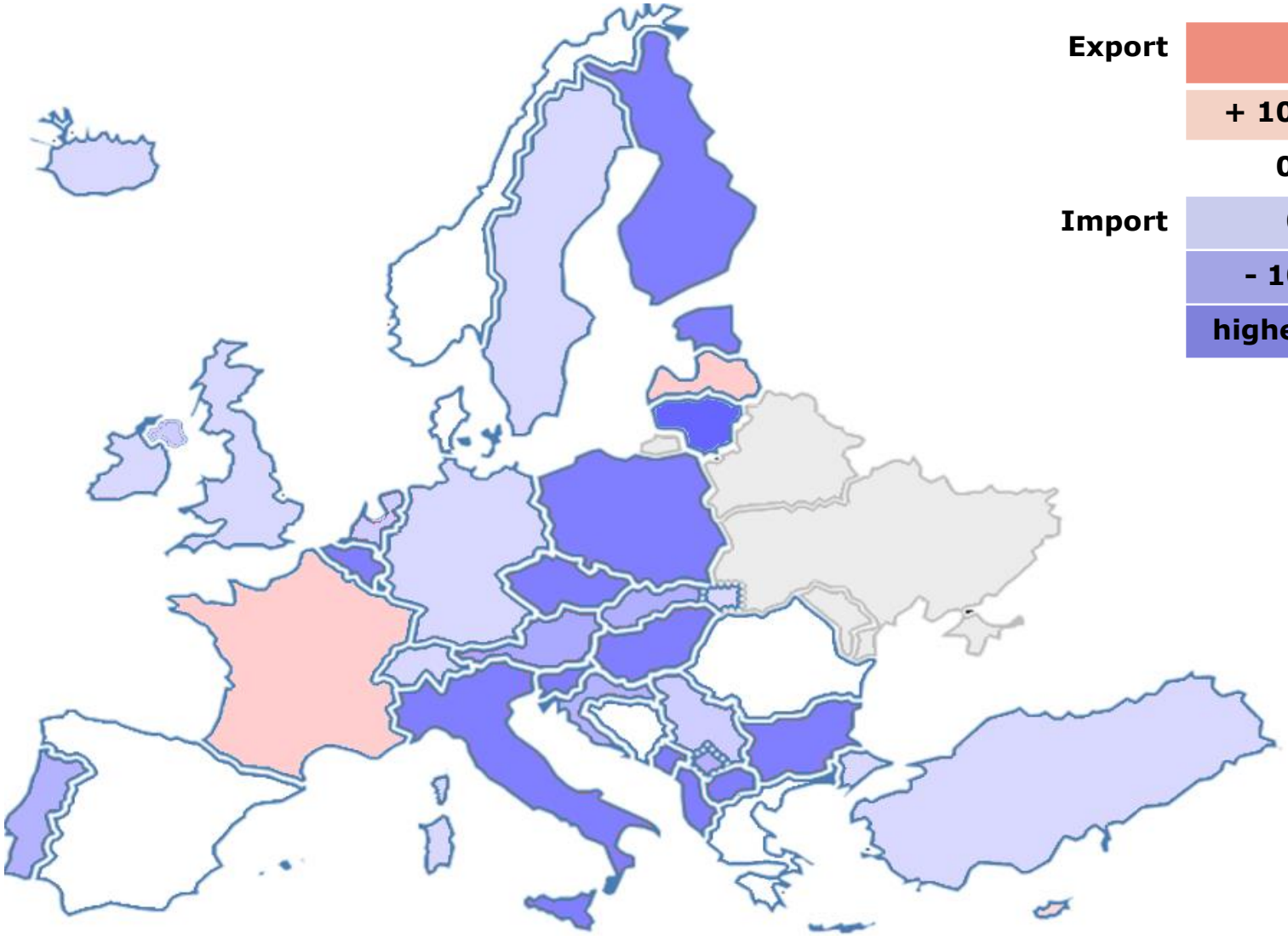


Export	over + 20 %
	+ 10 % to + 20 %
	0 % to + 10 %
Import	0 % to - 10 %
	- 10 % to - 20 %
	higher than - 20 %

POWER GENERATION ADEQUACY IN EU COUNTRIES EU IN 2040



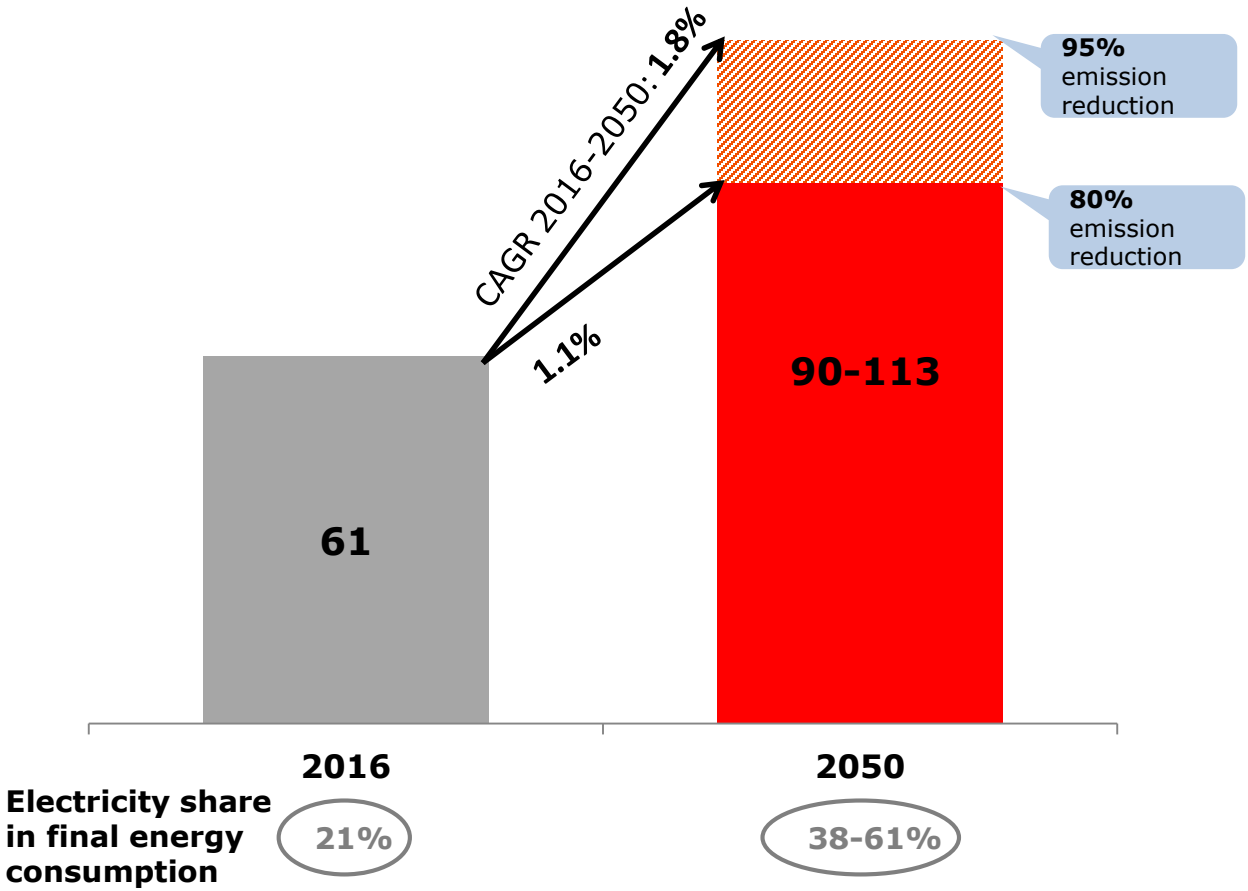
POWER GENERATION ADEQUACY IN EU COUNTRIES IN 2050



ELECTRIFICATION is required TO MEET decarbonisation targets up to 2050 in EU

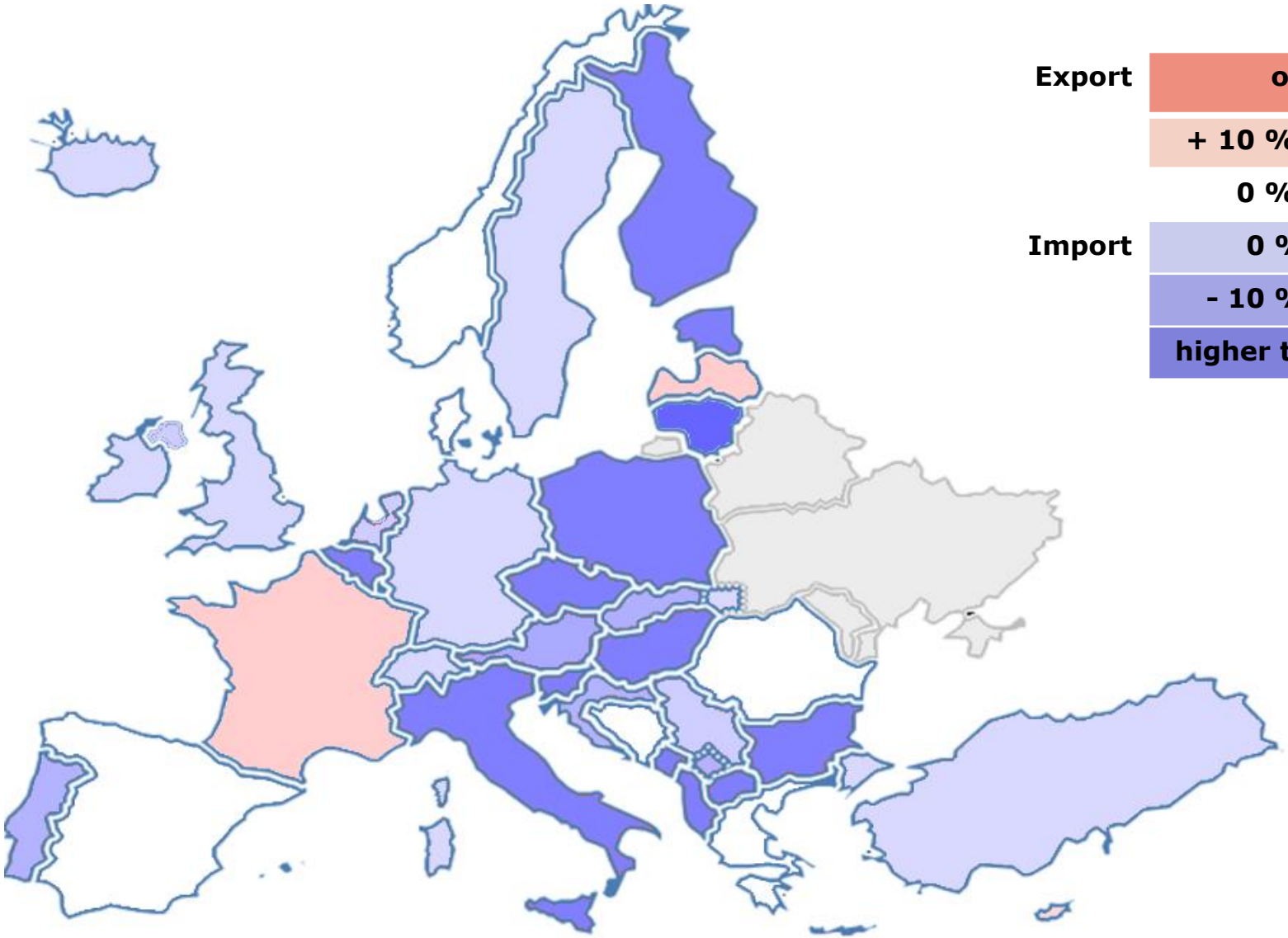
Estimated net electricity consumption at the ambition of 80-95% emissions reduction in 2050 according to the Eurelectric study

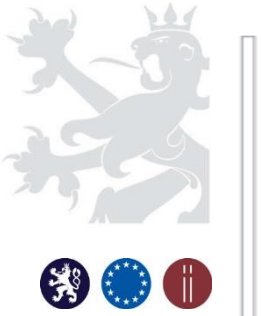
TWh



- The study analyses scenarios for reducing EU greenhouse gas emissions by **80-95%** by 2050 compared to 1990
- The assignment shows a need to **reduce energy consumption** in the EU by **0.6% -1.3% per year**
- The remaining decarbonisation will take place thanks to the fundamental electrification of consumption, assuming virtually emission-free electricity production
- For Central Europe, there is an increase in **electricity share** in total consumption of **38%** (80% emission reduction) to **61%** (95% emission reduction)
- The most ambitious scenario expects almost **100% electrification of passenger car traffic** and roughly **50% electrification of heating**

POWER GENERATION ADEQUACY IN EU COUNTRIES IN 2050





Thank you for your attention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