



Empowering **you** to act
on **climate change**

EU Electrification of Industrial Heat Observatory

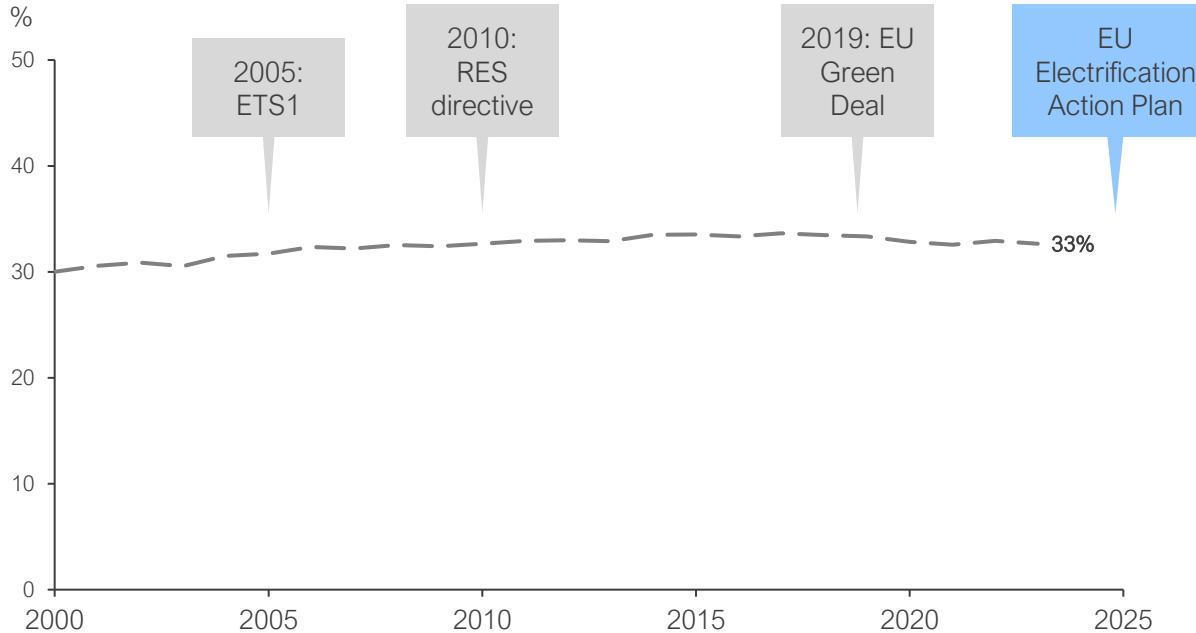
WATT's next event

December 2025

Industry electrification is stagnating at EU level.



Electrification of industry at EU level [%]



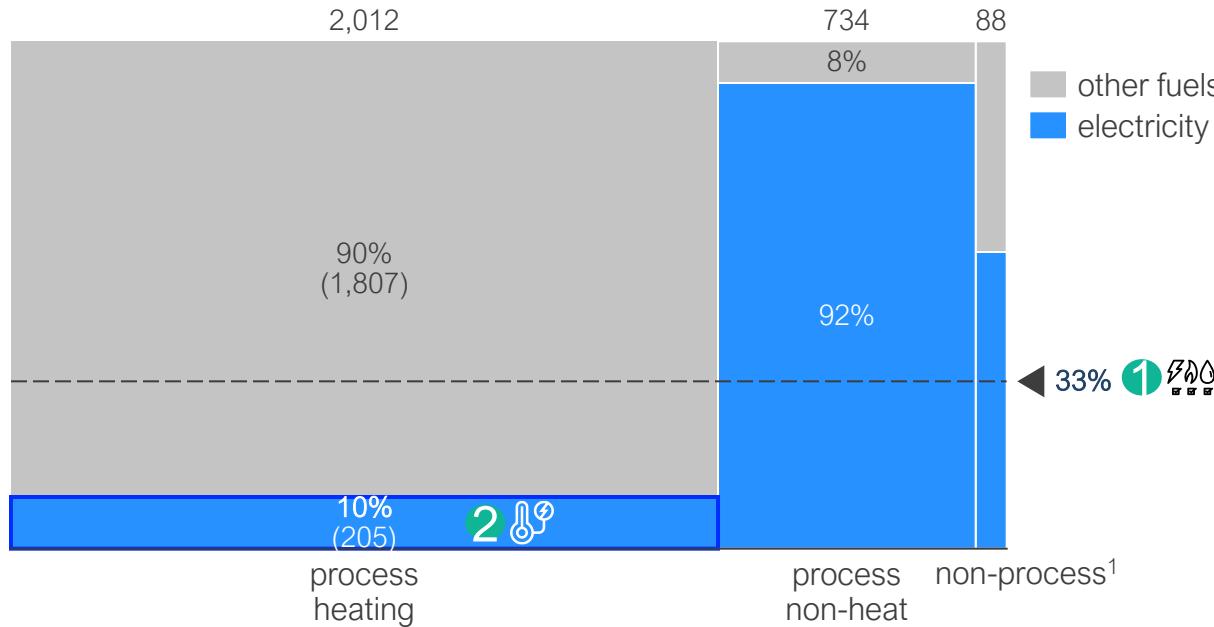
Comments

- The electrification rate of the EU industry has been stagnating over the last two decades, at around 33%.
- Lack of an electrification policy framework at the EU level.

In 2021, electricity covered 33% of EU-27 industrial energy consumption, but only 10% of heat processes.



Industrial energy consumption in 2021, EU27 [TWh]



Comments

- Total of 2833 TWh.
- Non-process energy includes lighting, space heating.
- Excluding feedstock, representing ~1,000 TWh of non-electric fuels.

Sources: Eurostat, CLIMACT based on IDEES 2021 (JRC, 2024)

Almost all Member States have between 25-40% of their industrial final energy consumption electrified.

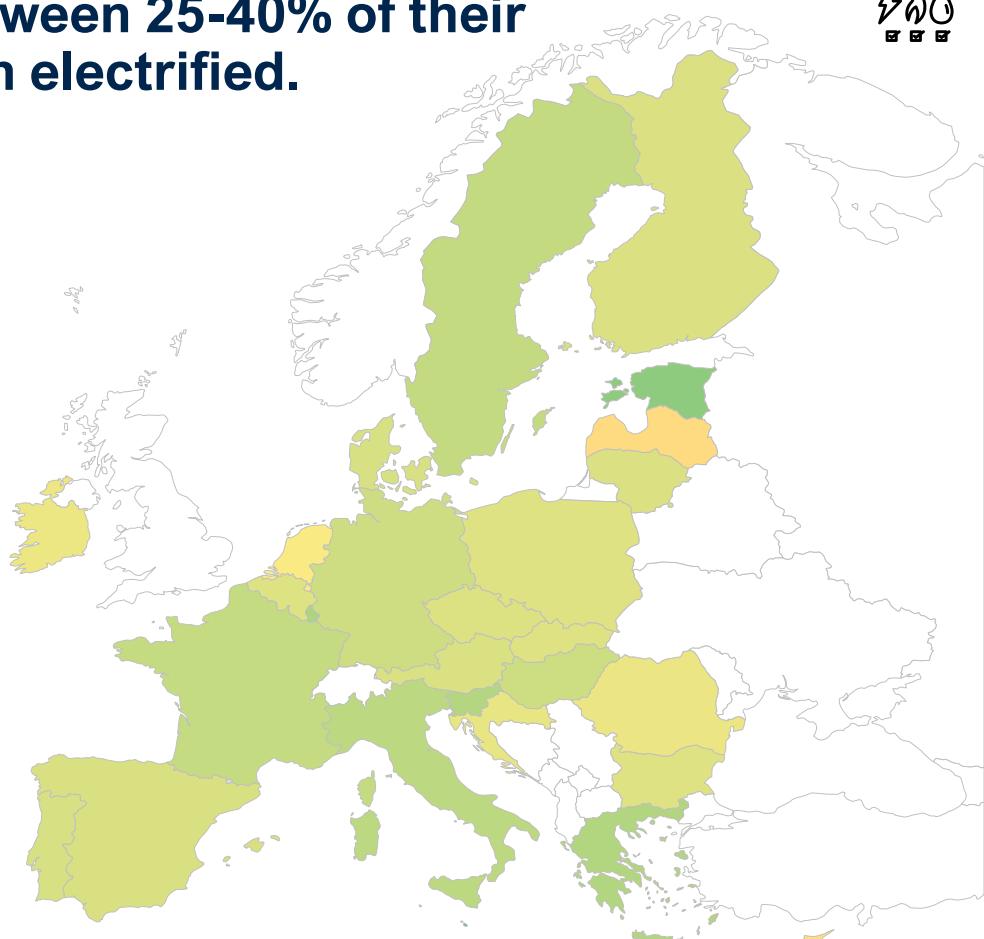


1 Electrification of industry in 2021

- The electrification rate of the EU industry is ~33%.
- The variation between Member States: almost all in an interval between 25-40%.



Source: Eurostat



For industrial heat, the level of electrification falls to between 5-15% for the majority of Member States.

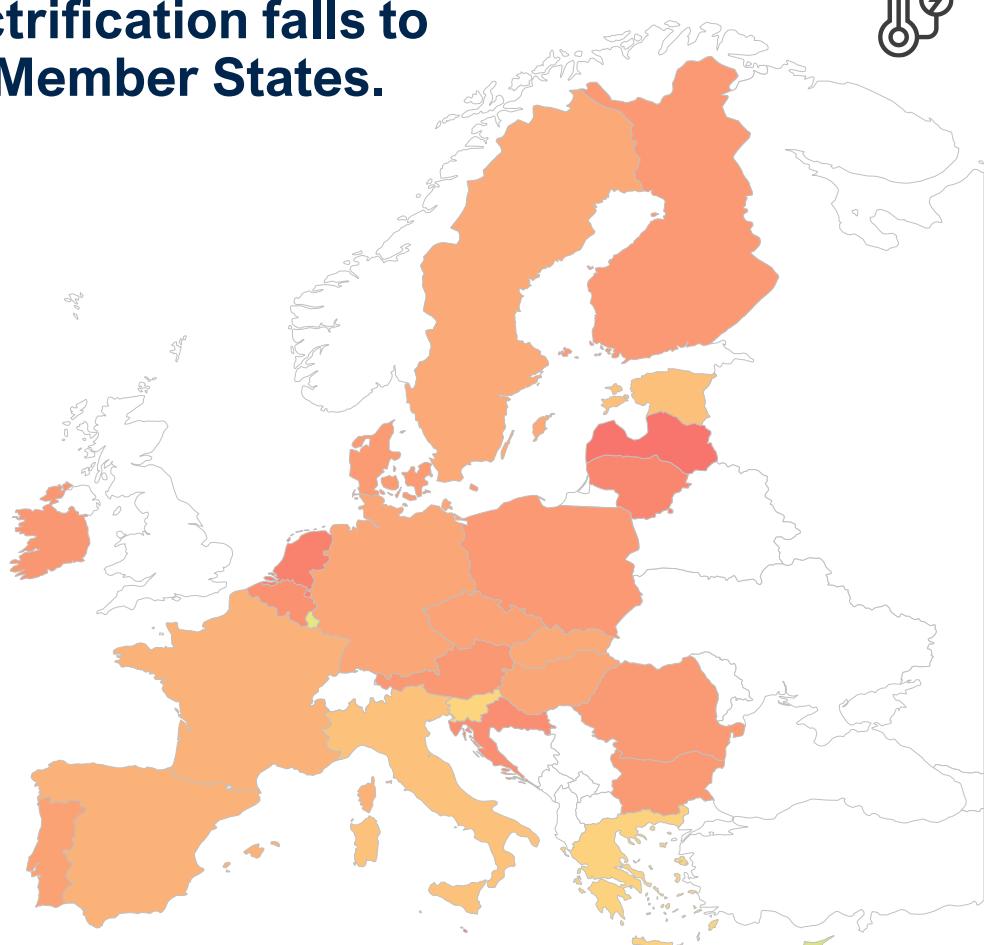


2 Electrification of industrial heat in 2021

- In comparison, the electrification of industrial heat is significantly lower at EU-27 level and by Member States: between 5-15%.
- This estimate is based on a robust methodology developed by CLIMACT.



Source: Climact



For more information, visit our online tracker.
<https://industrialheat.ecf.climact.com/>

