



# Potential and actual space heating and cooling consumption in Europe

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# Energy consumption (EU-27): space heating, residential sector

$$[TWh/a] = ([kWh/m^2a] \times [Mm^2])/1000$$

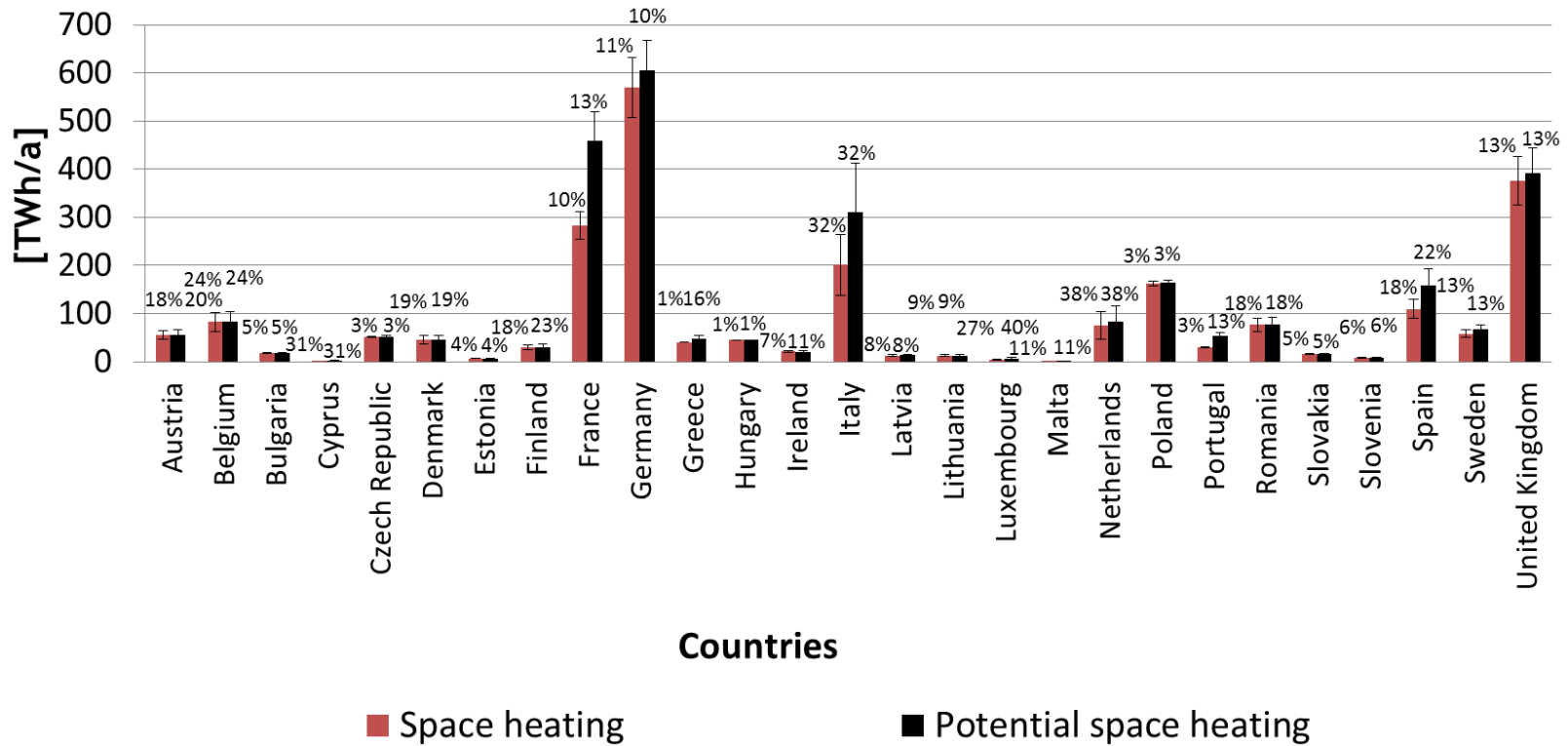


Figure 1: Actual and potential space heating consumption - residential sector (EU-27) [TWh/a]

$\Sigma$  Space heating consumption = ~2395 [TWh/a],  $\Sigma$  Potential space heating consumption = ~2840 [TWh/a]

## Energy consumption (EU-27): Space cooling, residential sector

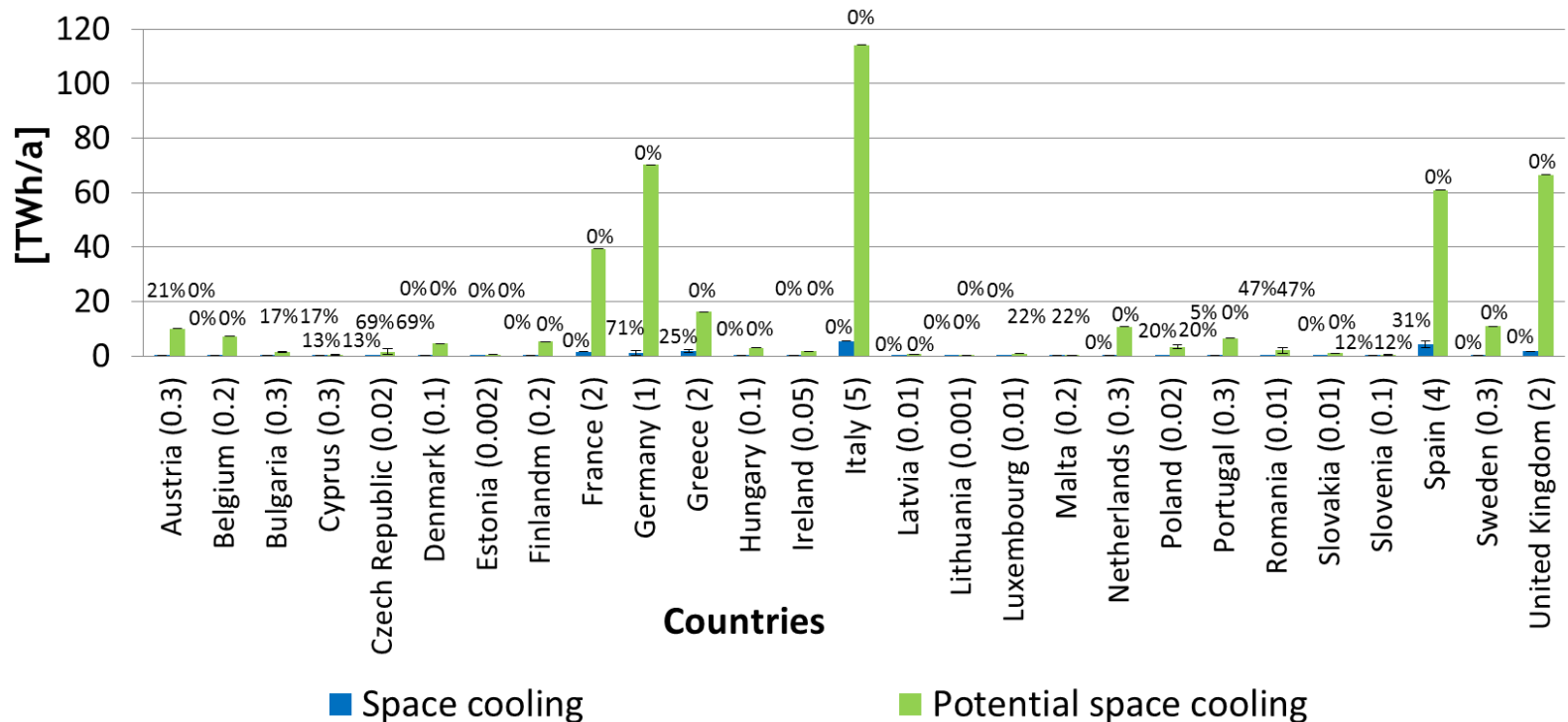


Figure 2: Actual and potential space cooling consumption - residential sector (EU-27) [TWh/a]

$\Sigma$  Space cooling consumption = ~18 [TWh/a],  $\Sigma$  Potential space cooling consumption = ~439 [TWh/a]

## Energy consumption (EU-27): Space cooling, service sector

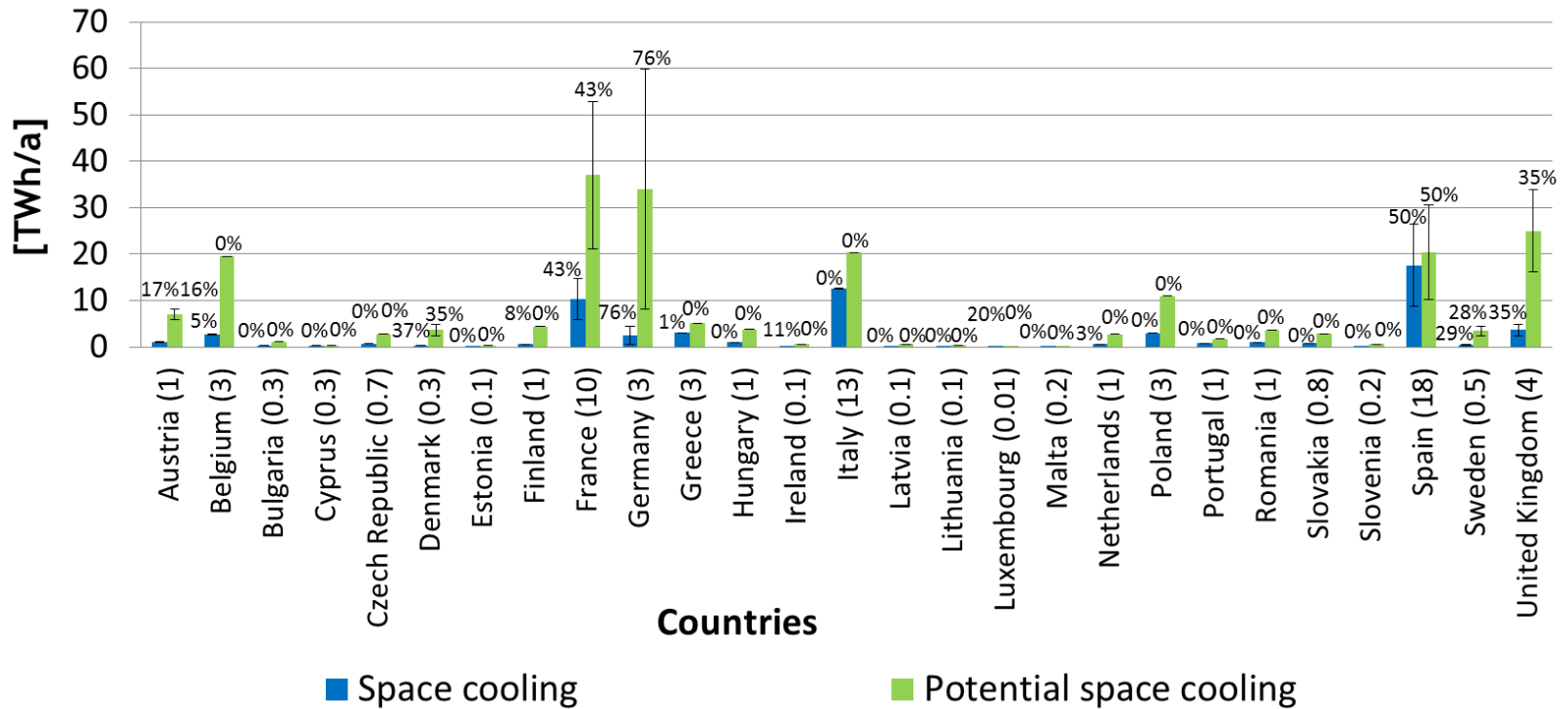


Figure 3: Actual and potential space cooling consumption - service sector (EU-27) [TWh/a]

$\Sigma$  Space cooling consumption = ~64 [TWh/a],  $\Sigma$  Potential space cooling consumption = ~213 [TWh/a]


## Summary

Ratio of total (residential + service) potential and actual space cooling consumption = ~8:1



Ratio of total (residential + service) potential and actual space heating consumption = ~1:1

EU-27, total actual energy consumption for:

Space heating: ~ 3852 [TWh/a]  Space cooling: ~ 82 [TWh/a] (Top-down approach)



Space cooling consumption indications given by EC (EU-27): 39 [TWh/a]



**Thank you for your attention!**

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