



eurelectric

Electric decade

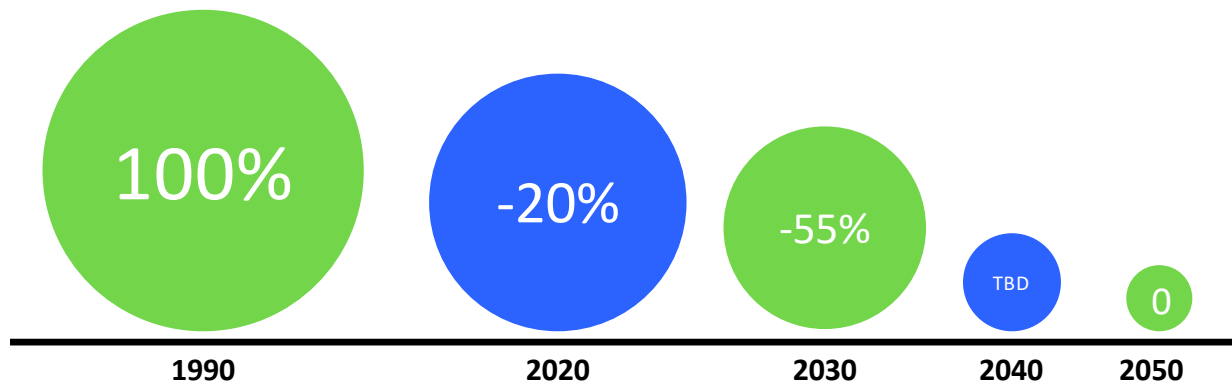
Eurelectric green power strategy

18 August 2021

Kristian Ruby – Secretary General



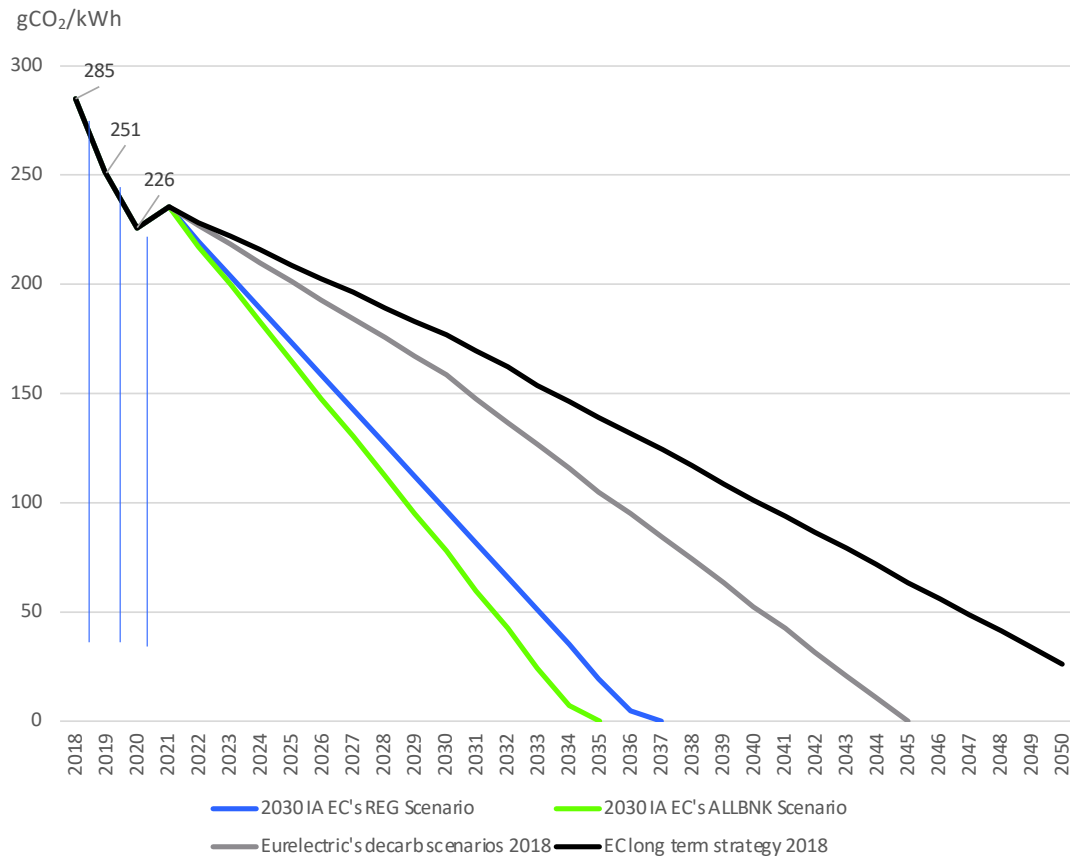
Europe's journey to carbon neutrality



The EU has decided to reduce greenhouse gas emissions by **at least 55%** compared to 1990



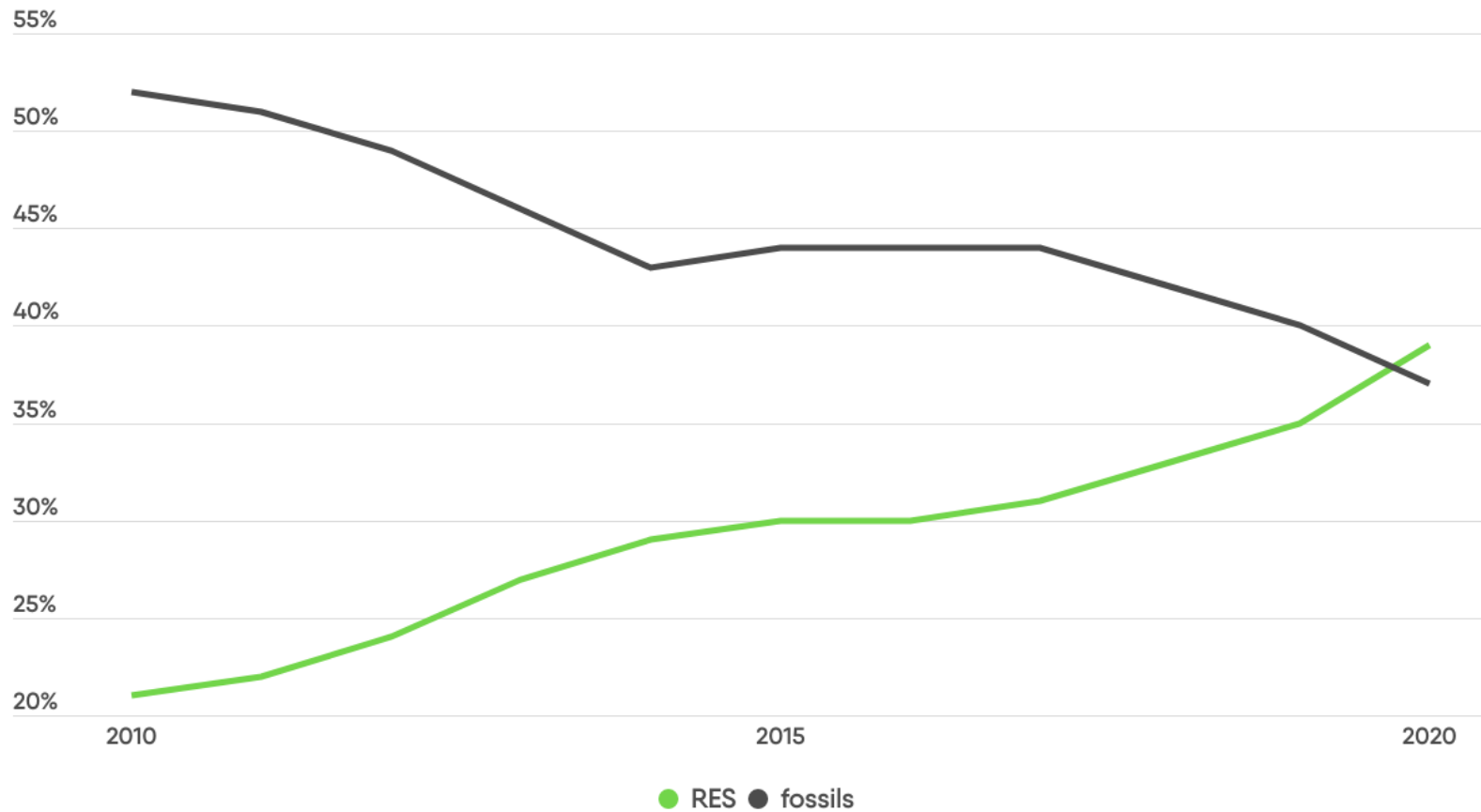
Doubling down on power decarbonisation



- A few years ago, power sector decarbonisation was foreseen for 2045-2050.
- The new proposals will make it happen between 2035-2040.

2020: Renewables overtook fossil fuels

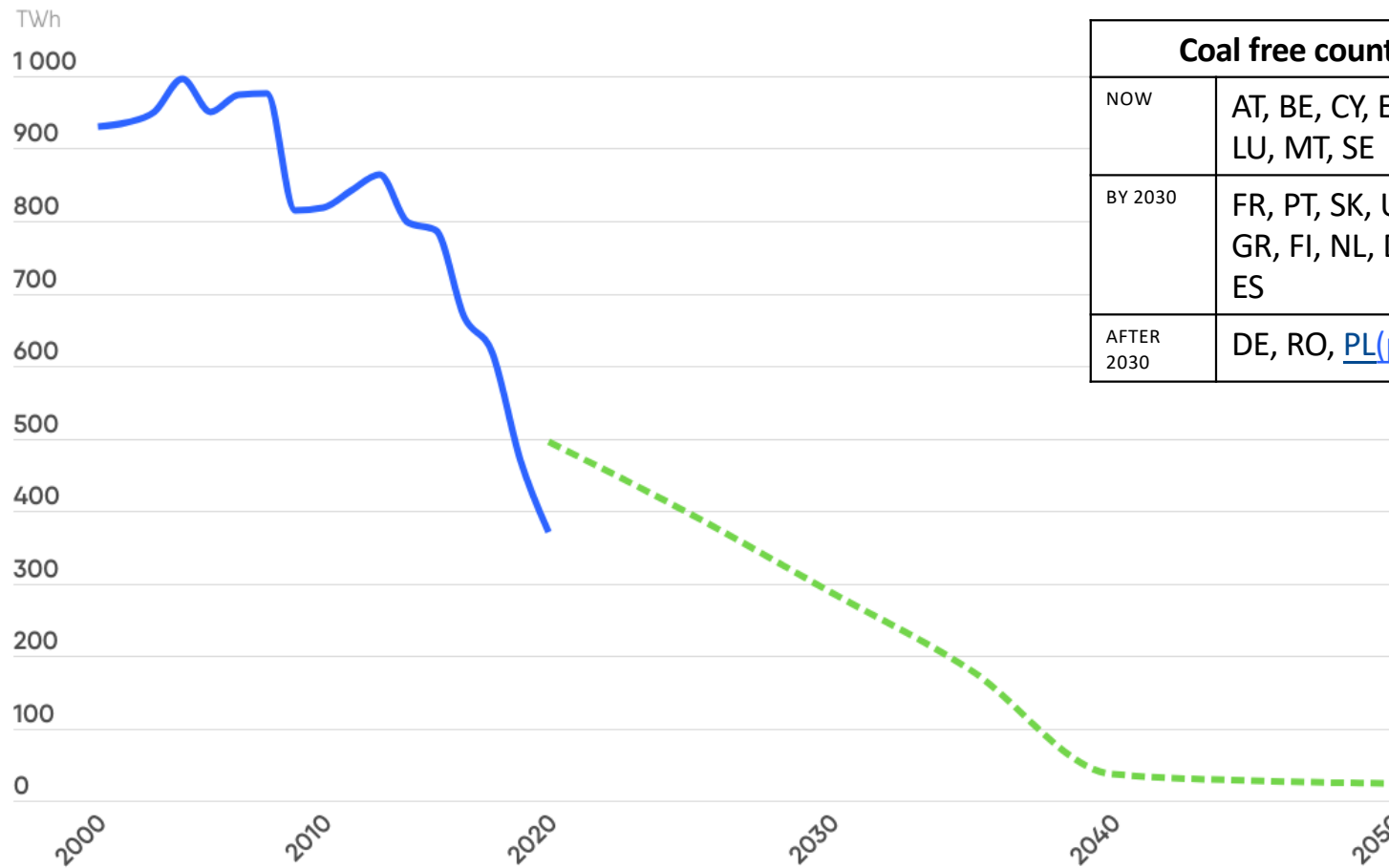
% of total electricity generation



electric
energizing people

Source: Eurelectric calculation from Eurostat (2010-2019); Ember-Agora (2020)

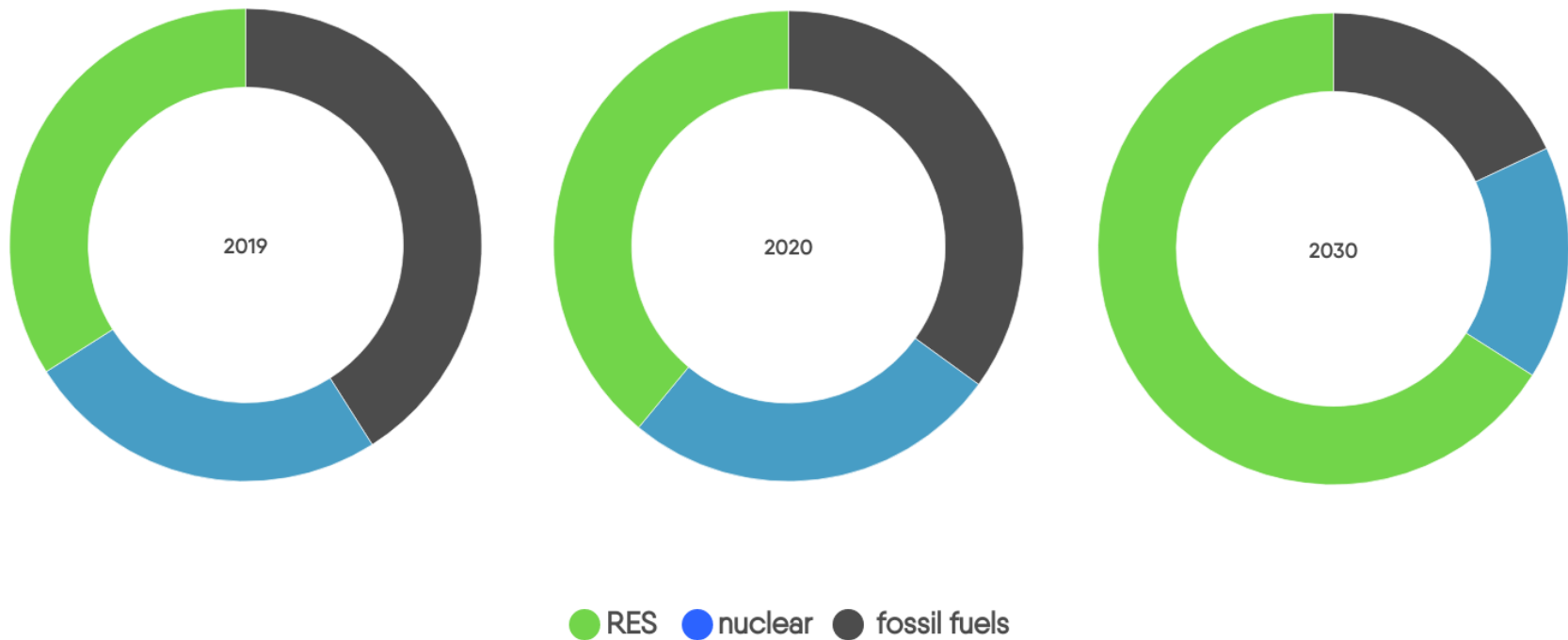
Coal generation declining faster than expected



Source: Eurelectric's analysis based on European Commission's Baseline Scenario; Eurostat; EMBER Climate

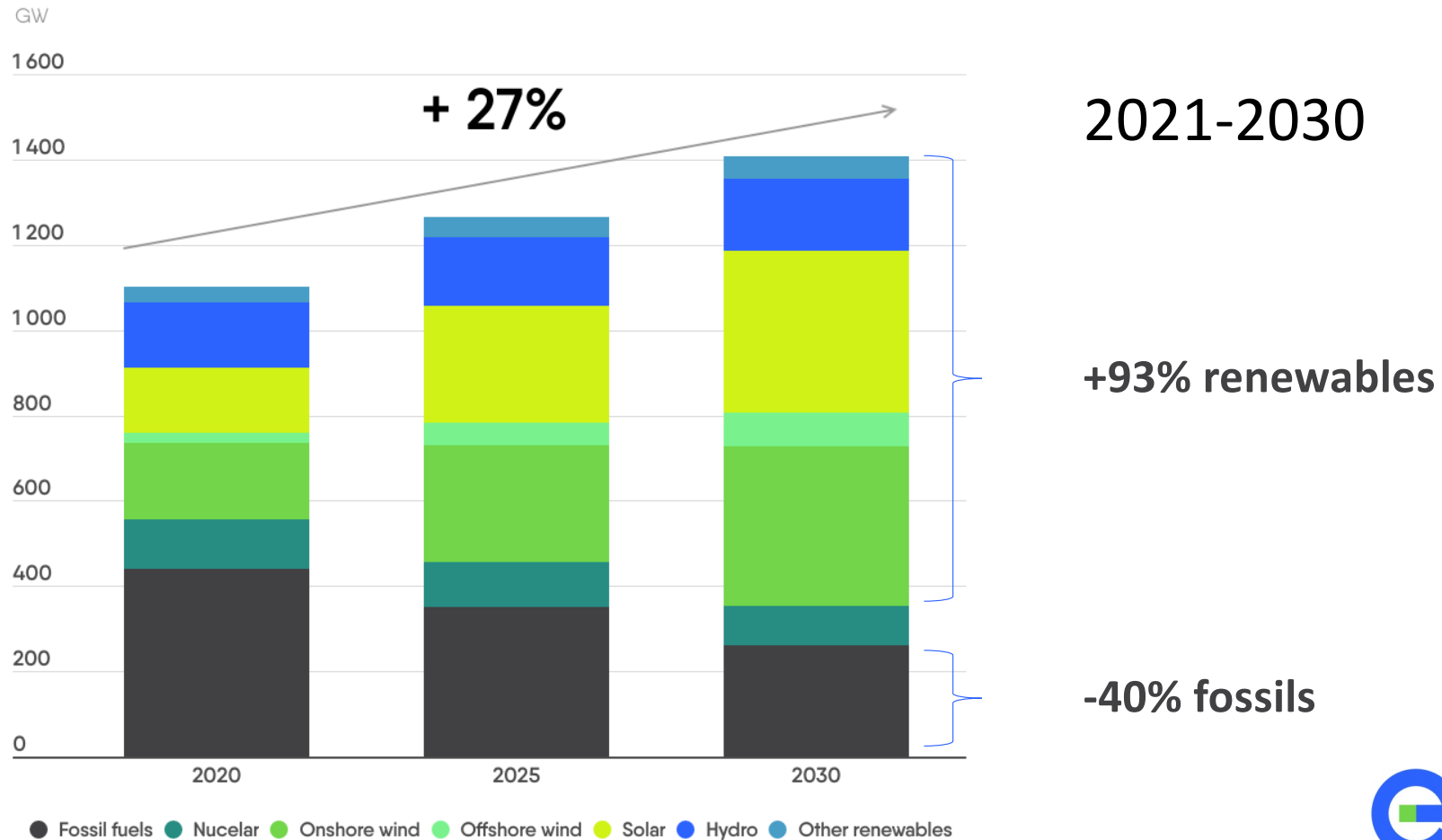
82% power decarbonised by 2030

EU 27 + UK



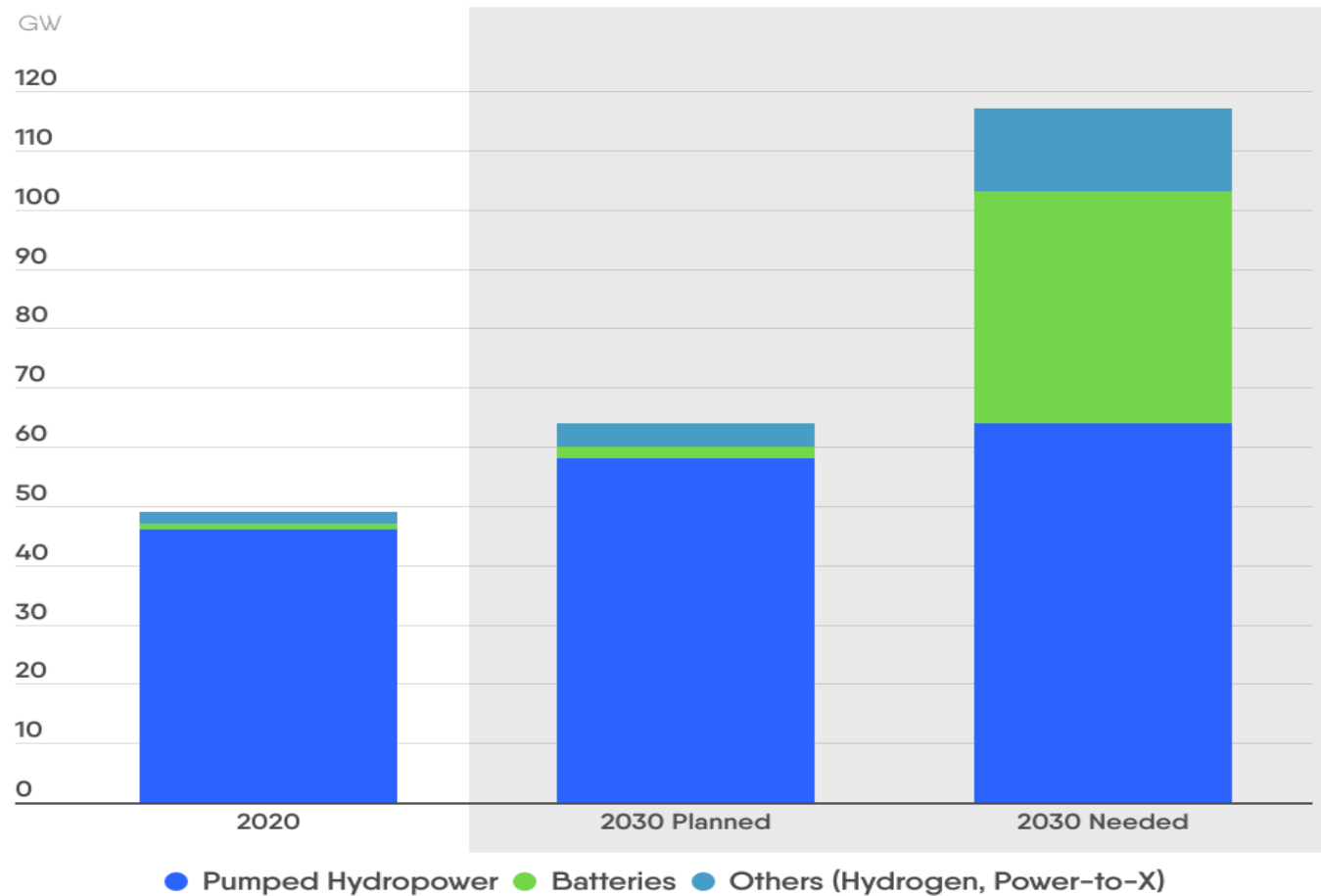
Source: Estimation from Eurostat (2019), Ember-Agora (2020), 2030 Impact Assessment report of EC (2030)

All technologies needed for carbon neutrality

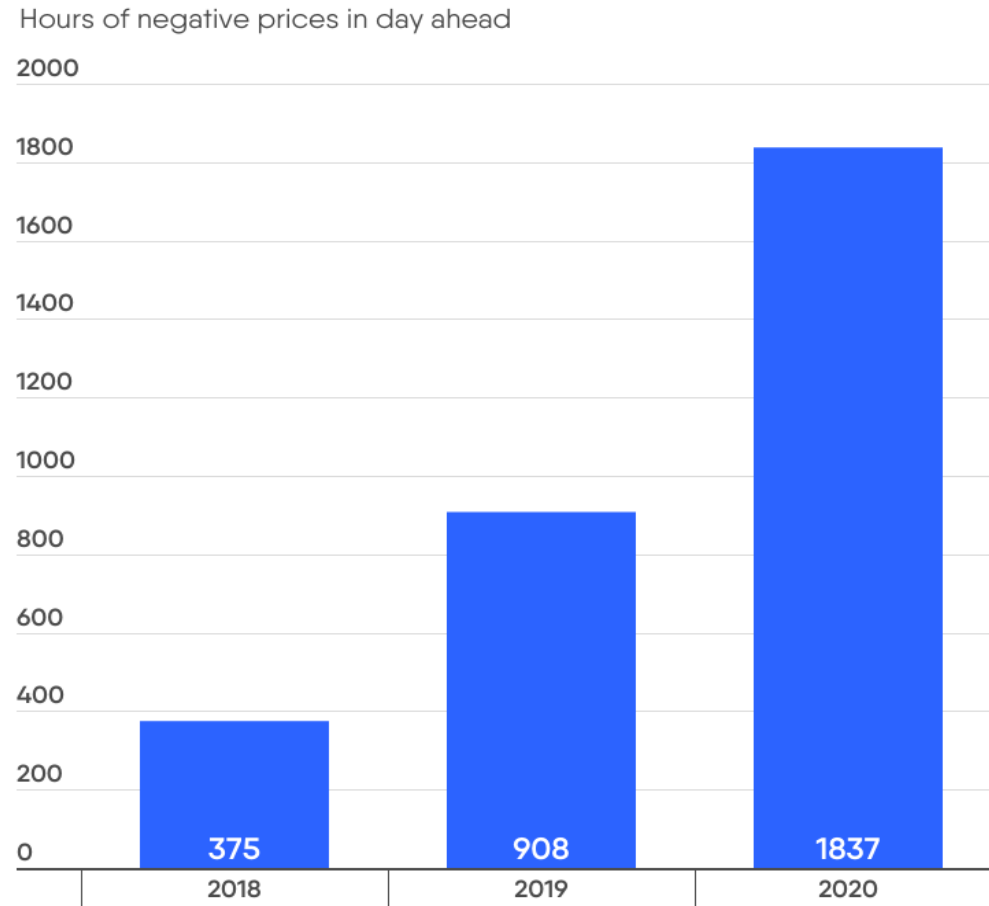


Sources: Eurelectric analysis based on Eurostat (solar, hydro & other RES), Wartsila, WindEurope (offshore & onshore), most ambitious scenarios from the EC LTS

Energy storage: a potential bottleneck?

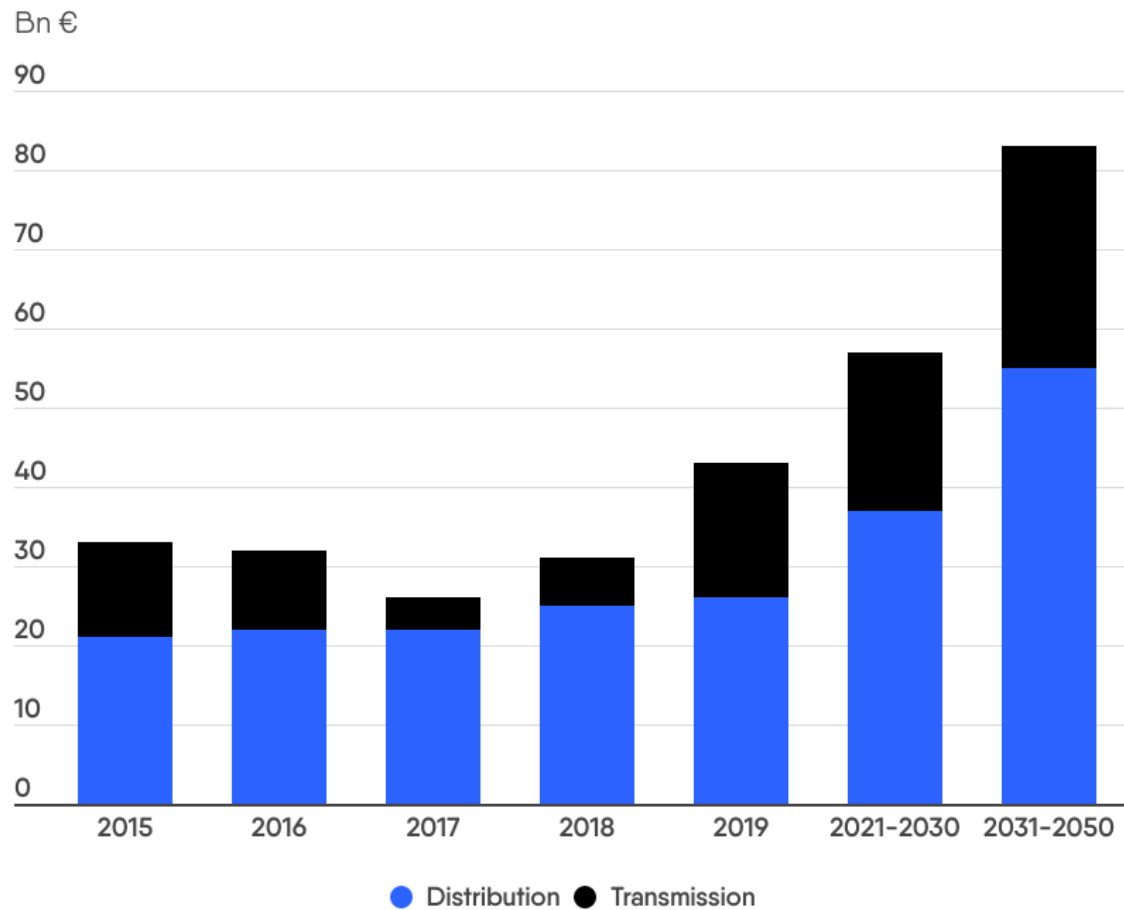


A serious market challenge: negative prices

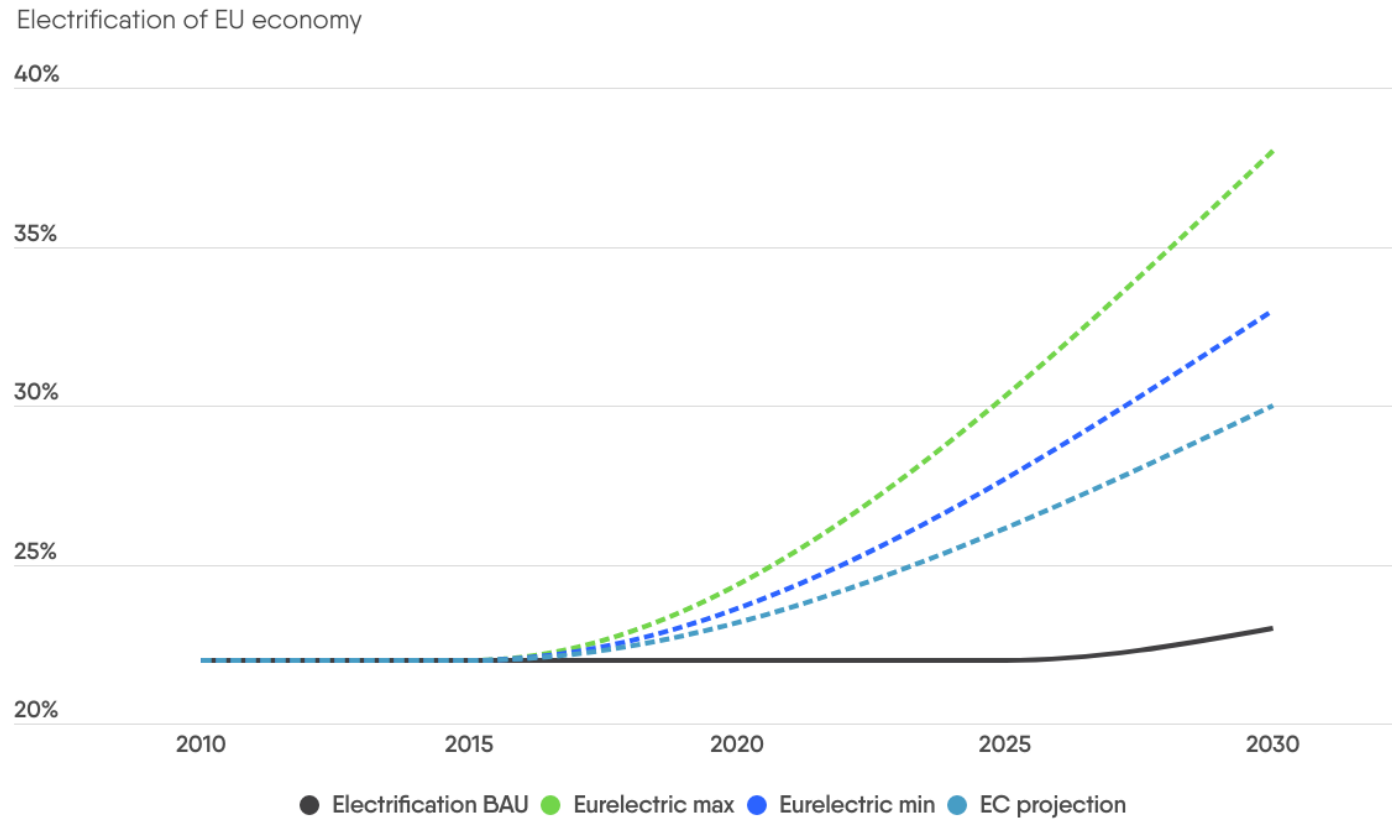


Source: Wartsila (ENTSO-E data)

Investment in grids must ramp up



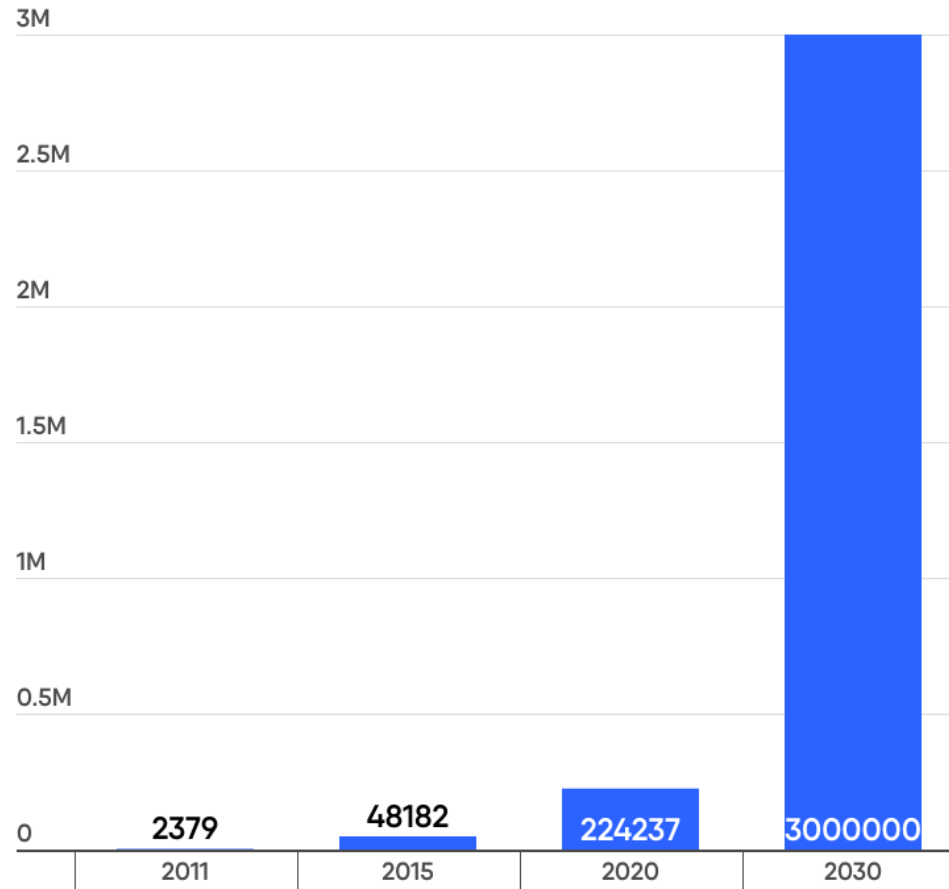
Faster, deeper electrification needed



Source: Eurostat; EC 55 % GHG reduction impact assessment; Power Barometer 2020

Charging stations yet to grow

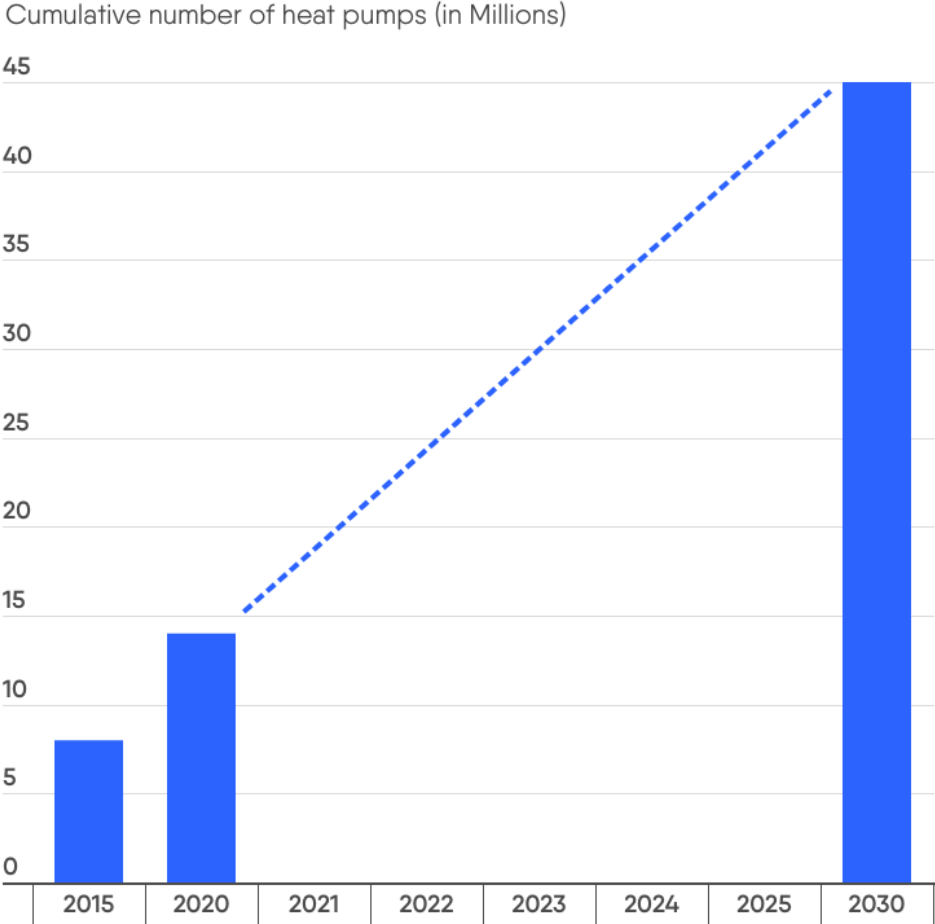
Number of charging stations



Source: T&E Europe



Heat pump sales: ramp-up needed



Source: European Heat Pumps Association





Thank you!

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