

Wind power and hydrogen

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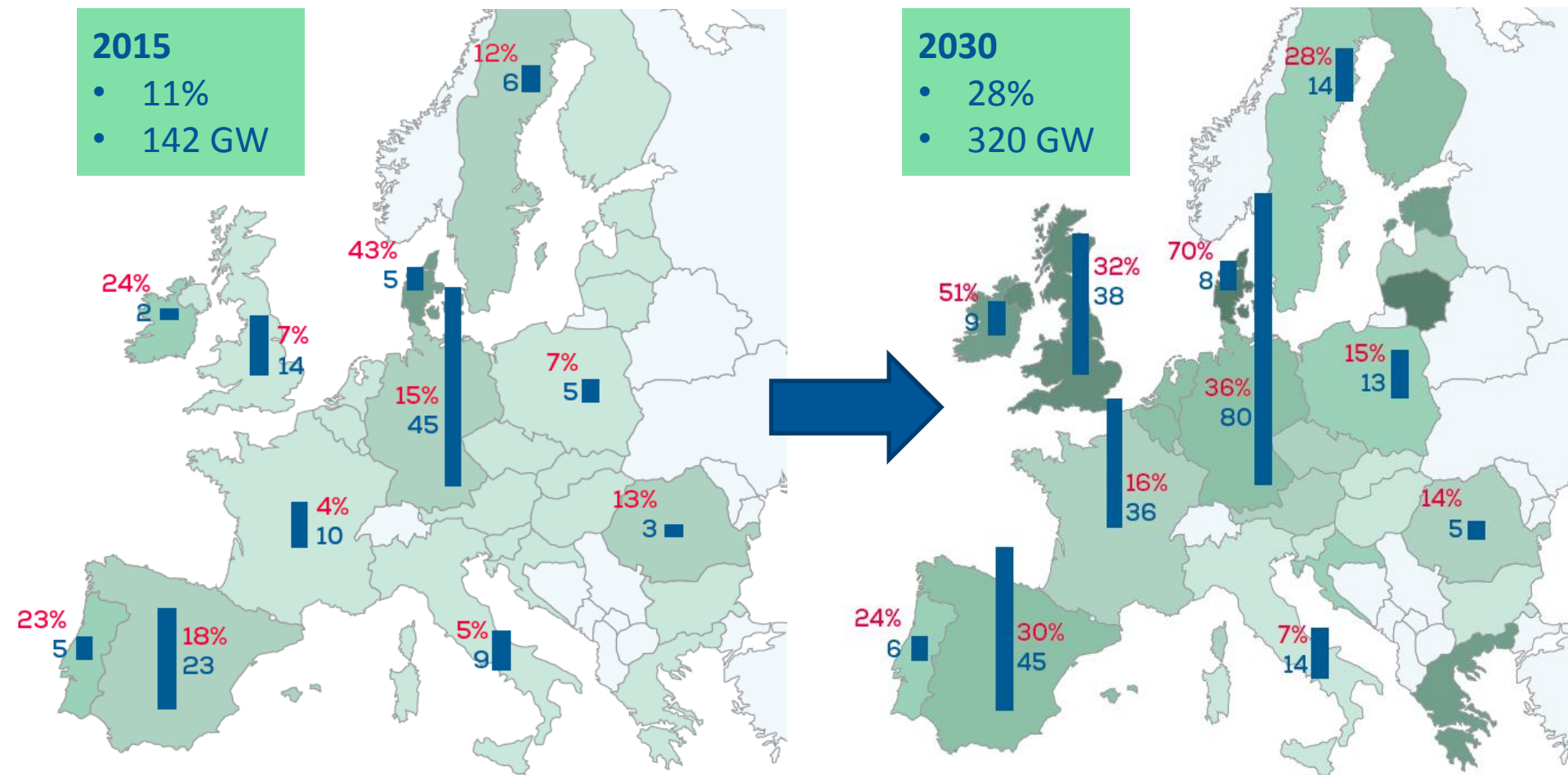
Expansion of wind energy

2015

- 11%
- 142 GW

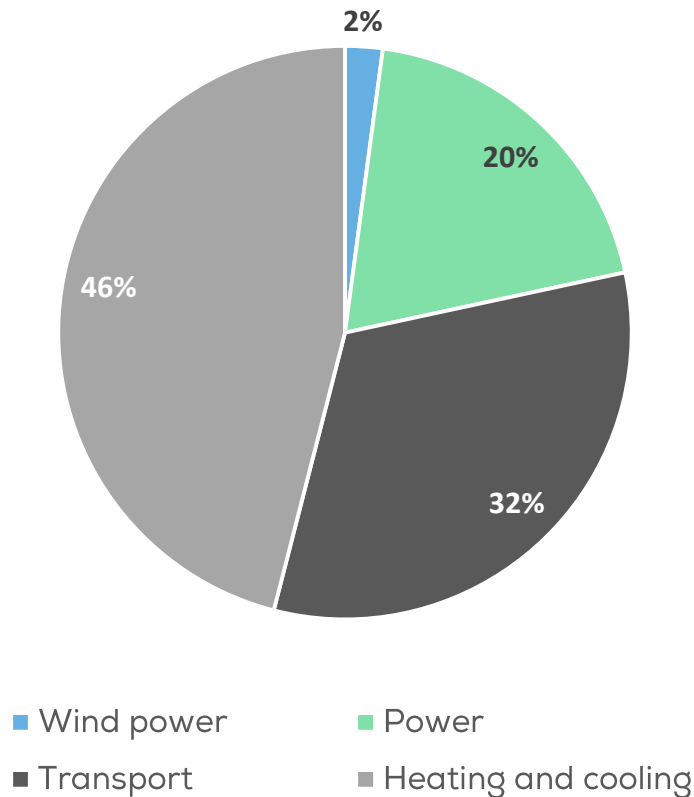
2030

- 28%
- 320 GW

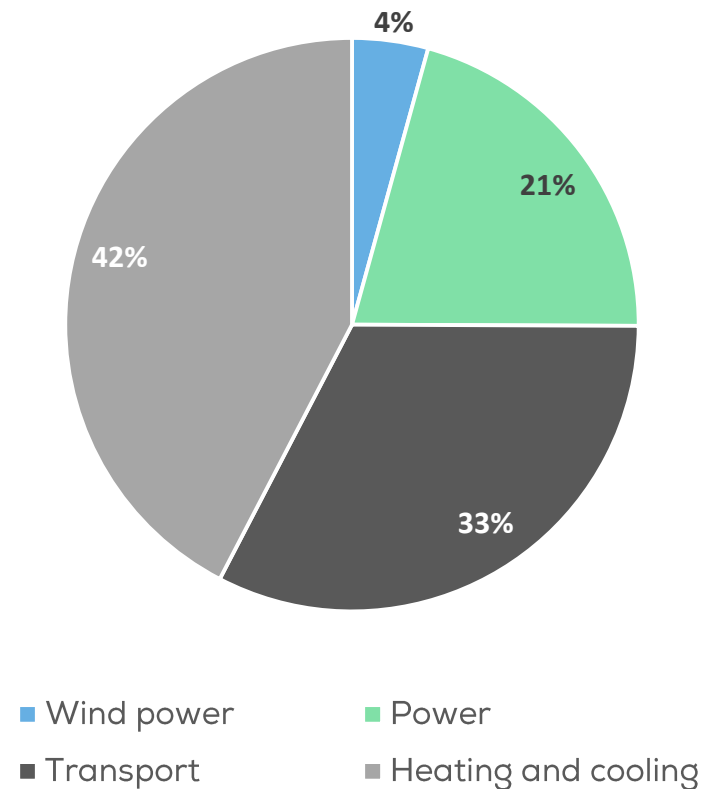


Opportunity: Electrification

2015 final EU energy demand



2030 final EU energy demand



Wind powering trains?

- Expected consumption of one train depot: 1.5 to 2 H₂ tons daily (according to Alstom)
- Equivalent to average daily production of 10 turbines (2.5MW)

Europe's future:
Wind-powered trains

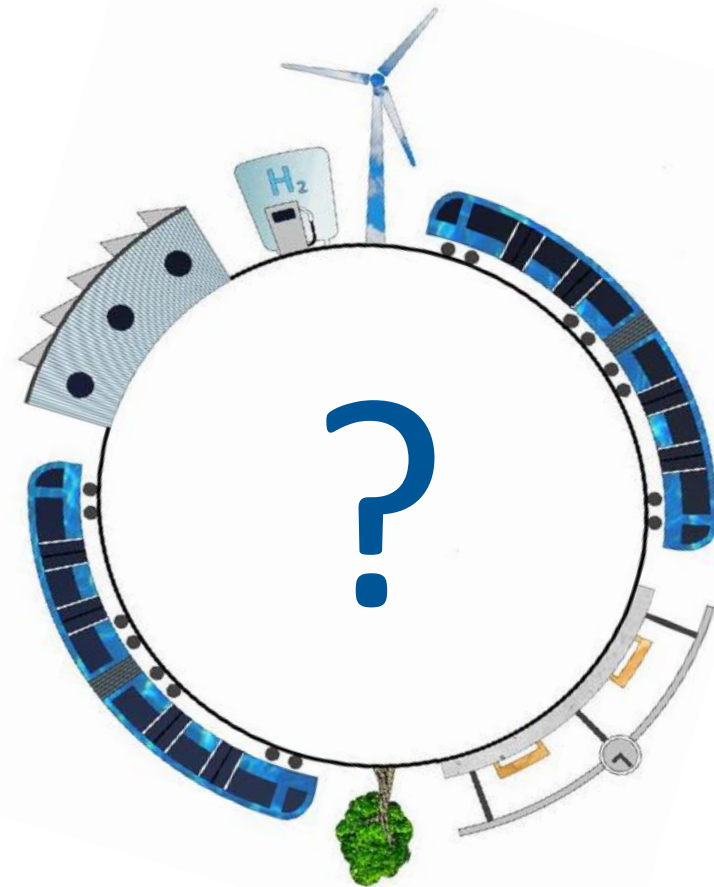
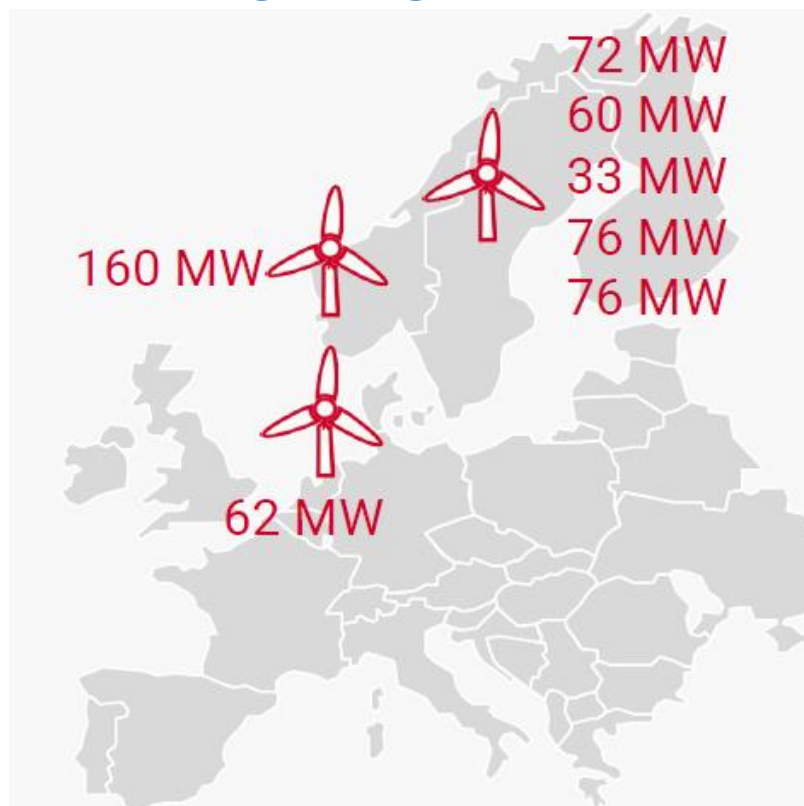


Image source: Alstom

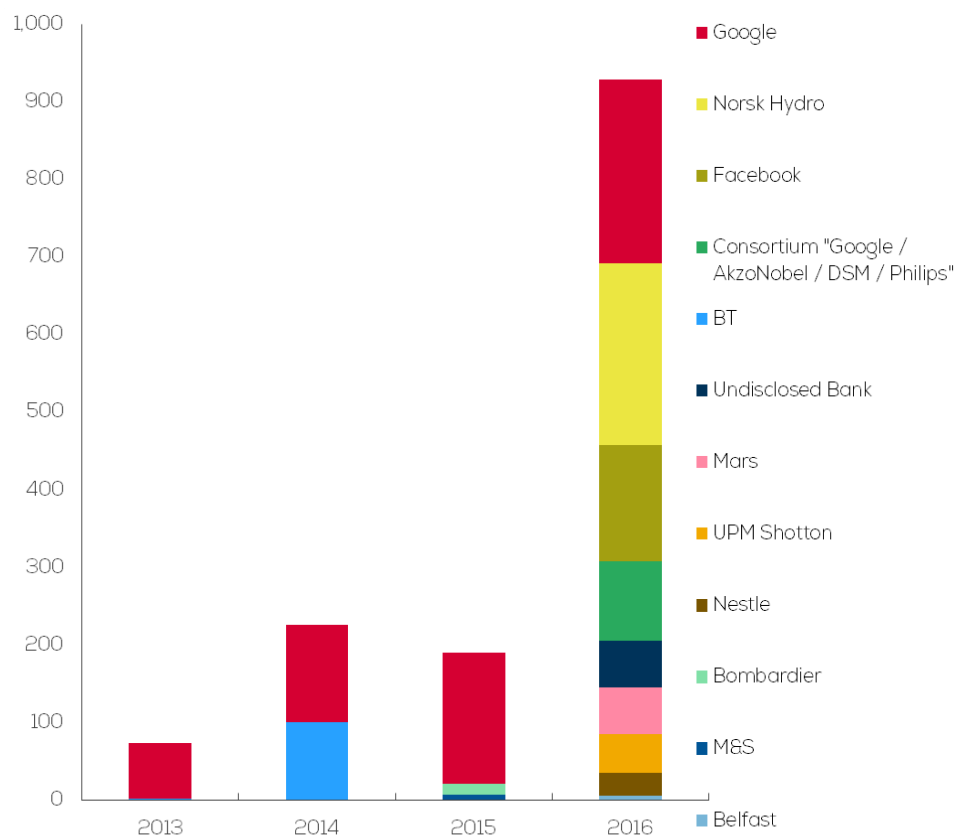
Direct purchasing increases

Powering Google data hubs



Source: Google

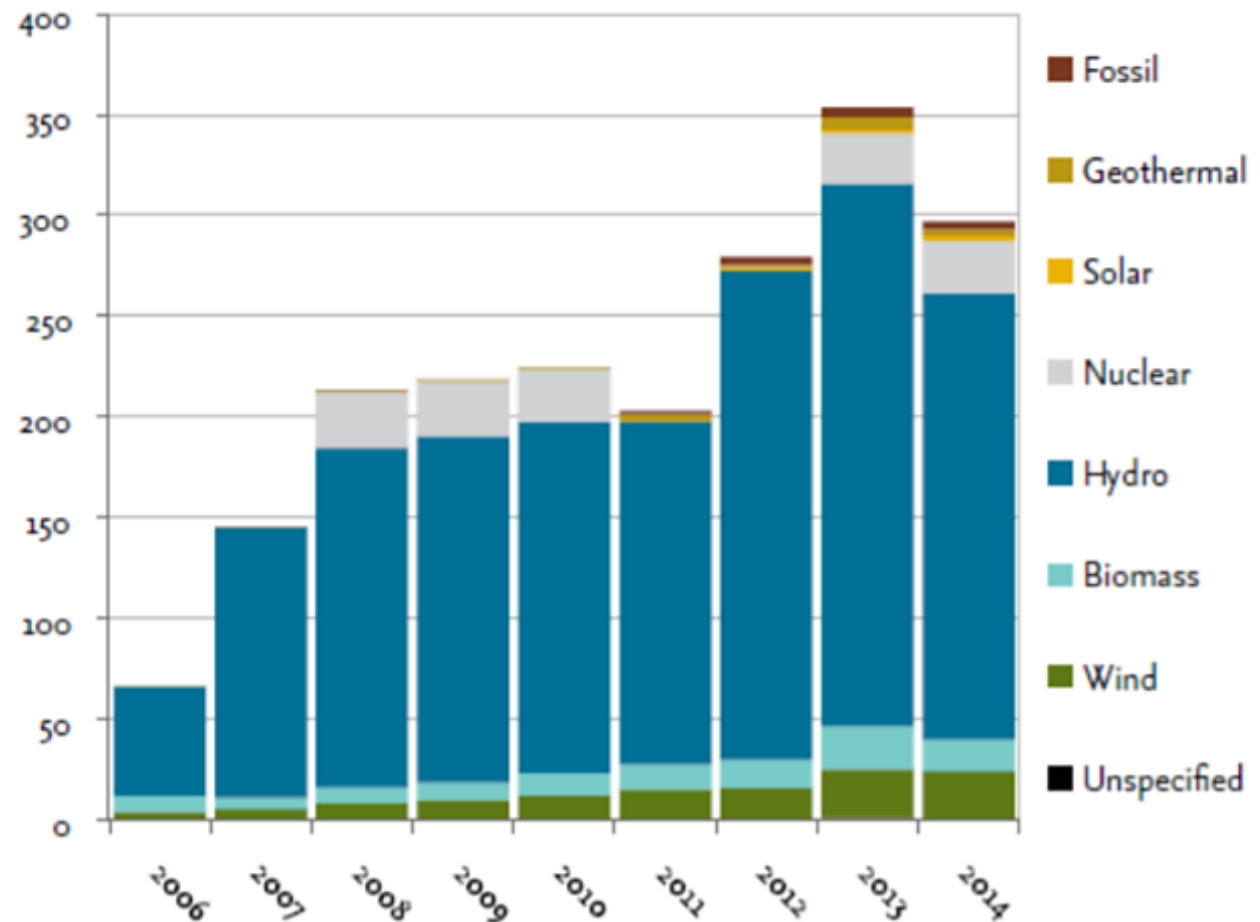
Growing PPA market (MW)



Source: WindEurope

New Business models: Combining PPAs with GOs

Guarantees of
origin issued by
technology (TWh)



Source: AIB Annual
Report 2014

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