

Paris Agreement Compatible (PAC) scenario

Wendel Trio, CAN Europe and Patrick ten Brink, EEB
Launch event, 30 June 2020, 10:28 – 10:33 CEST

Building a civil society scenario compatible with Paris

- Paris Agreement: Make effort to limit temperature rise to 1.5°C.
- Impacts already happening while we are heading to 3°C or more.
- IPCC Special Report on 1.5°C and UNEP Emissions Gap reports made clear what is needed.
- Based on science and equity, EU must go to -65% in 2030 and net zero by 2040.

Building a civil society scenario compatible with Paris

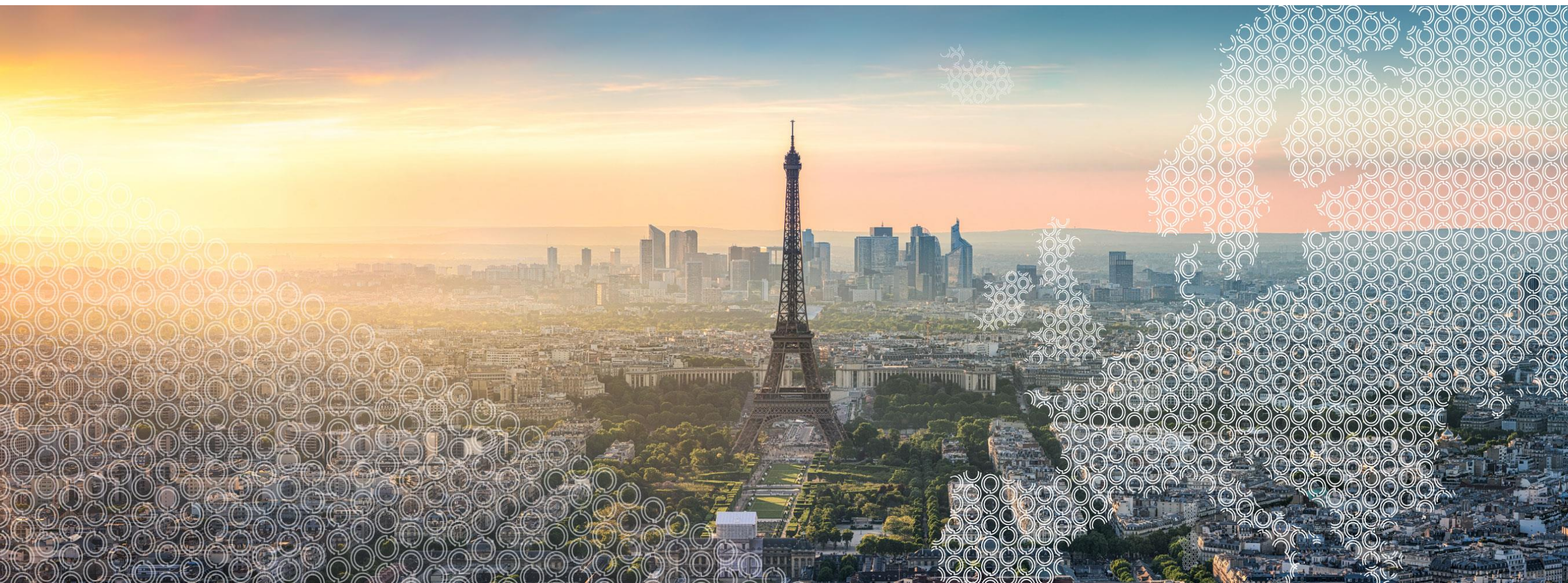
We are not the first or only ones.



Scenario building process January 2019 – June 2020

- Collective research of >150 members & experts
- 5 scenario workshops, webinars, online survey, feedback loops
- Scrutinise existing studies and models: available solutions only



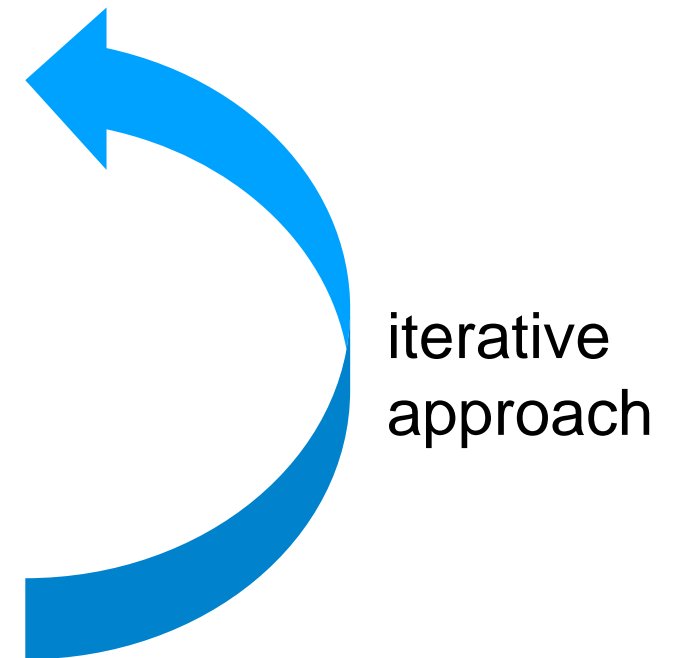


Paris Agreement Compatible (PAC) scenario

Jonathan Bonadio, EEB and Jörg Mühlenhoff, CAN Europe
Launch event, 30 June 2020, 10:35 – 10:50 CEST

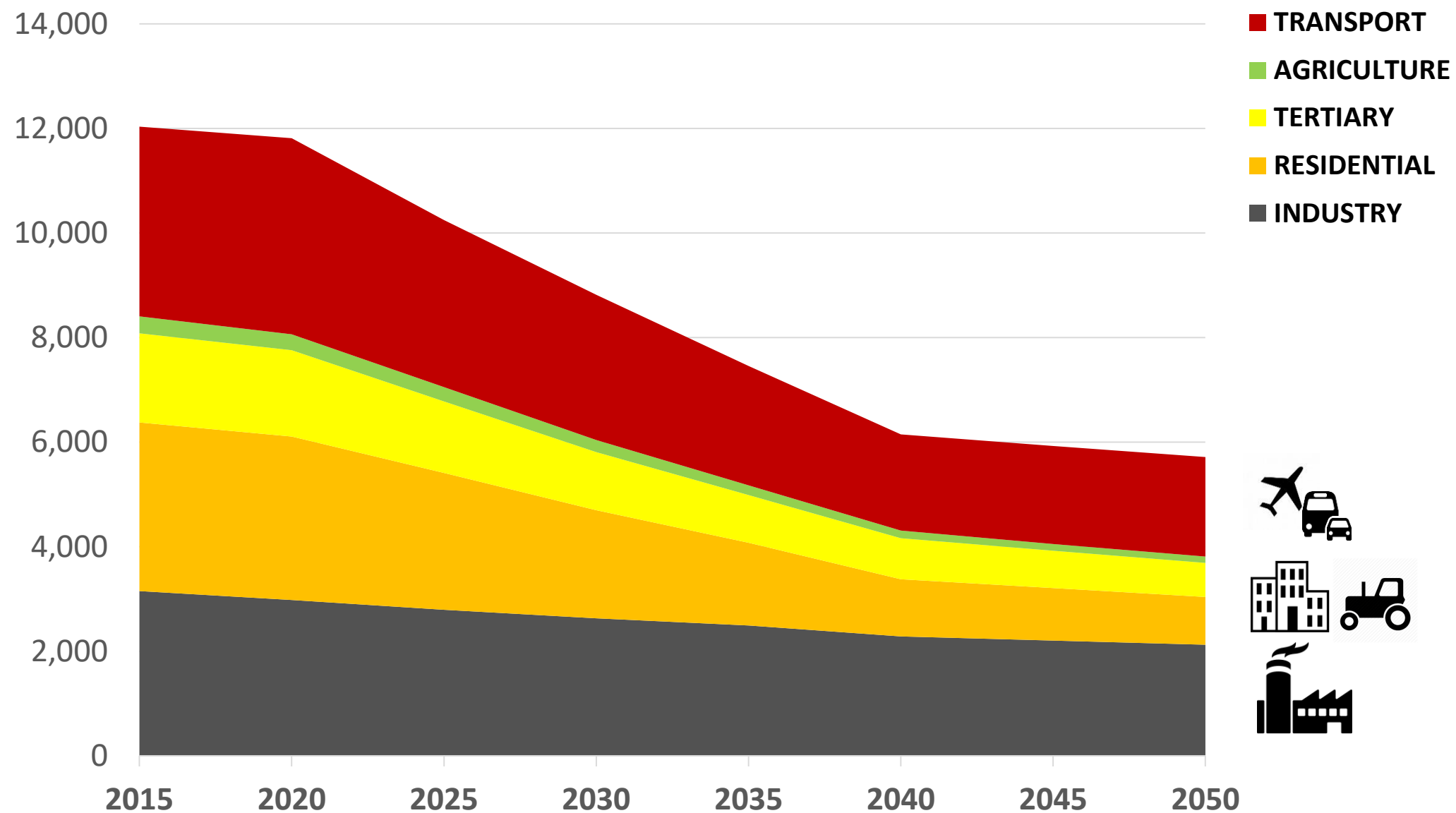
How we built our scenario

- ✓ Analysis of energy demand of each sector
- ✓ Matching the yearly demand with supply
- ✓ Emission reductions, energy efficiency and renewable shares
- ✓ Hourly modelling (Öko-Institut PowerFlex)



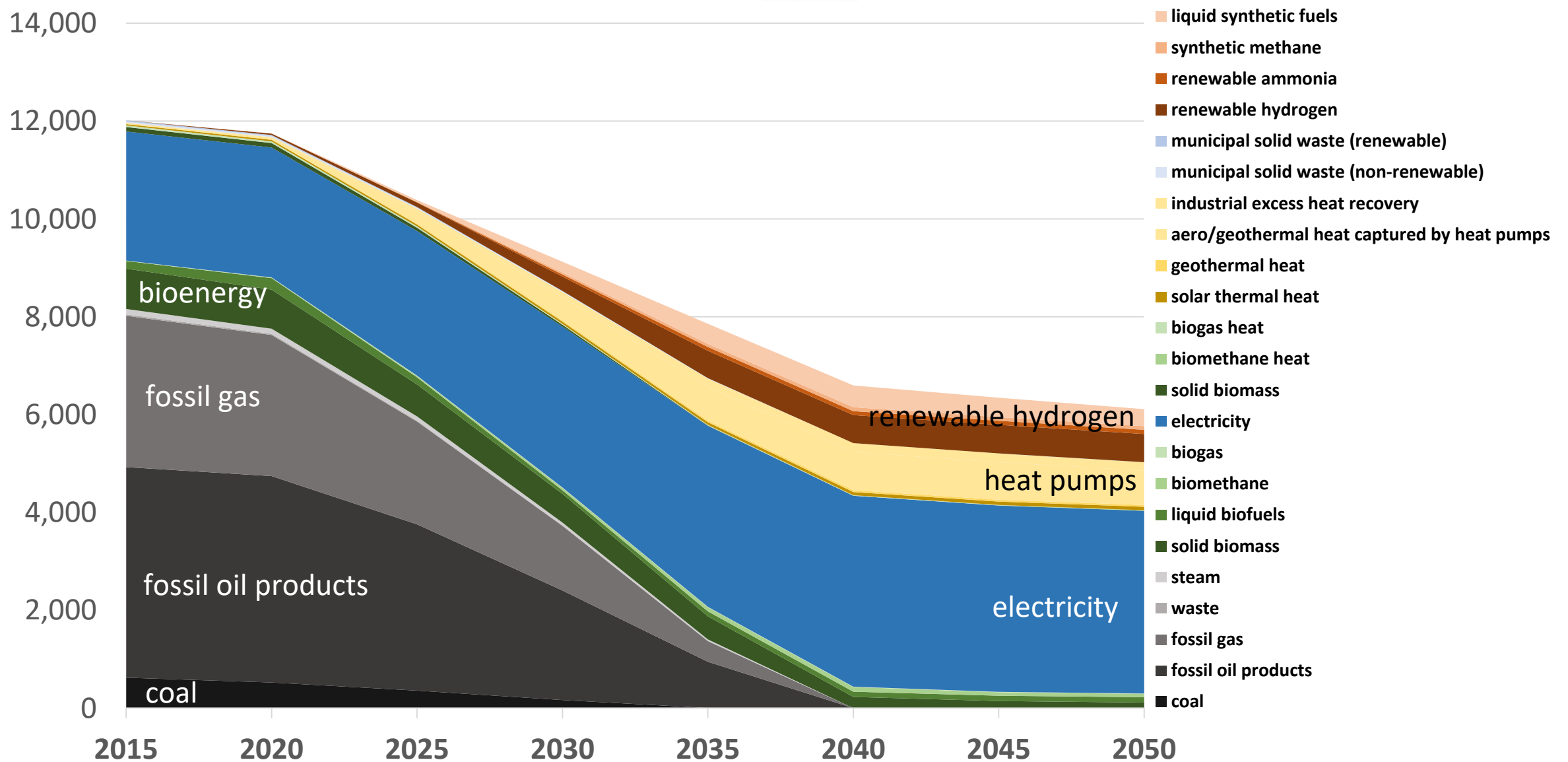
Energy demand: how much will we consume?

Final energy demand EU28 [TWh] - Total



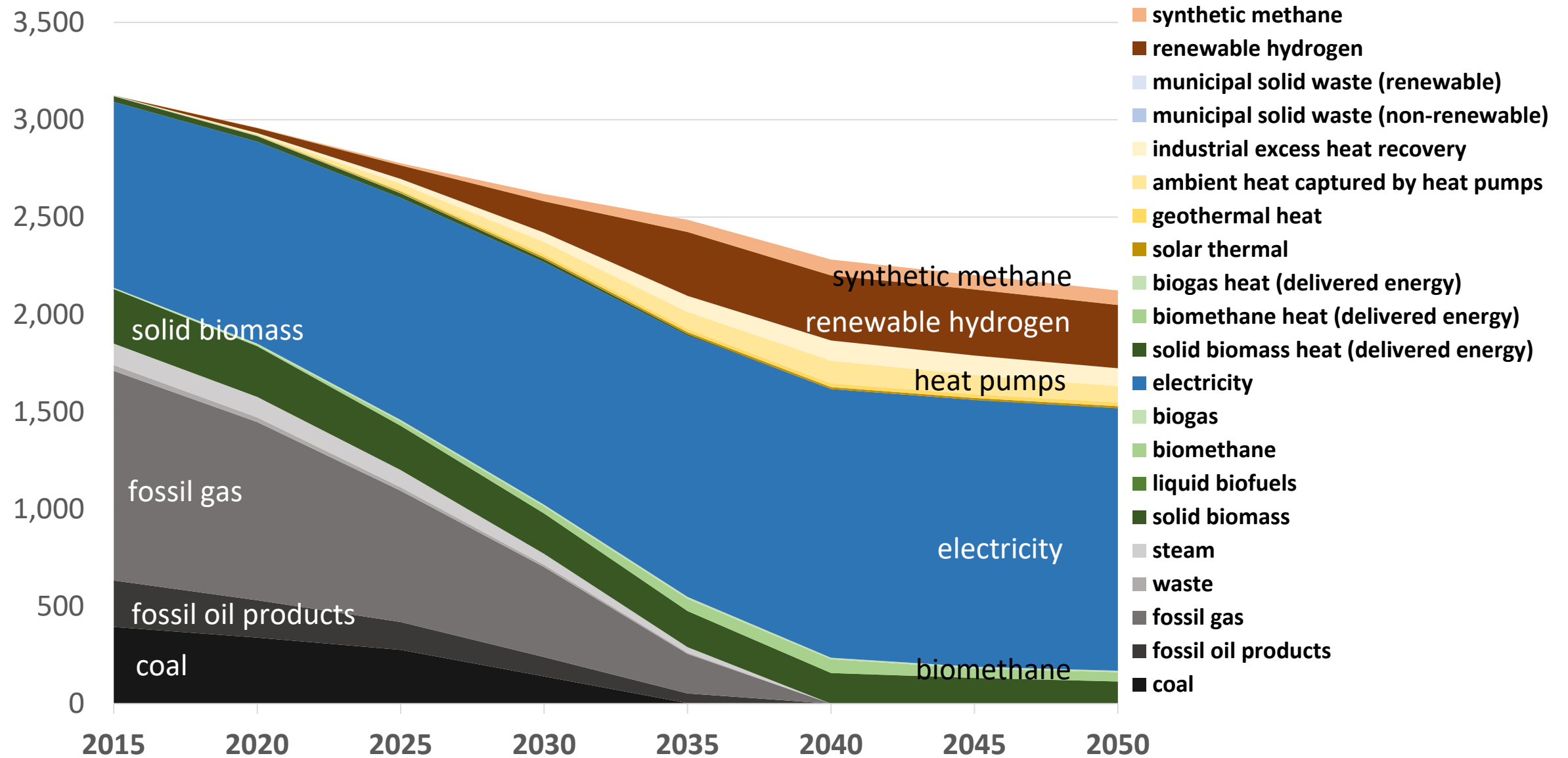
Energy demand: where does the energy come from?

Final energy demand EU28 [TWh] - Total



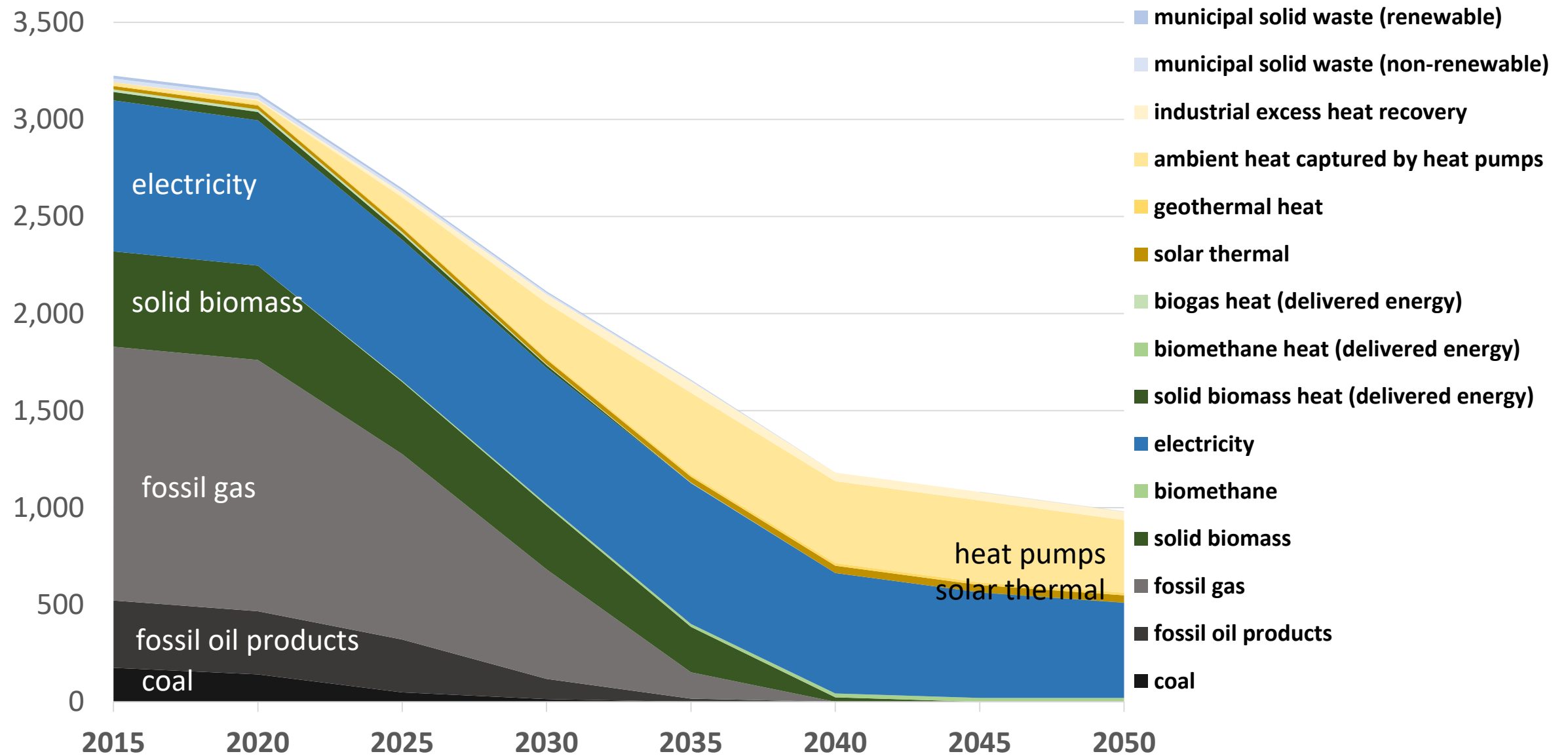
Industry sector

Industry Final energy demand EU28 [TWh] - Total



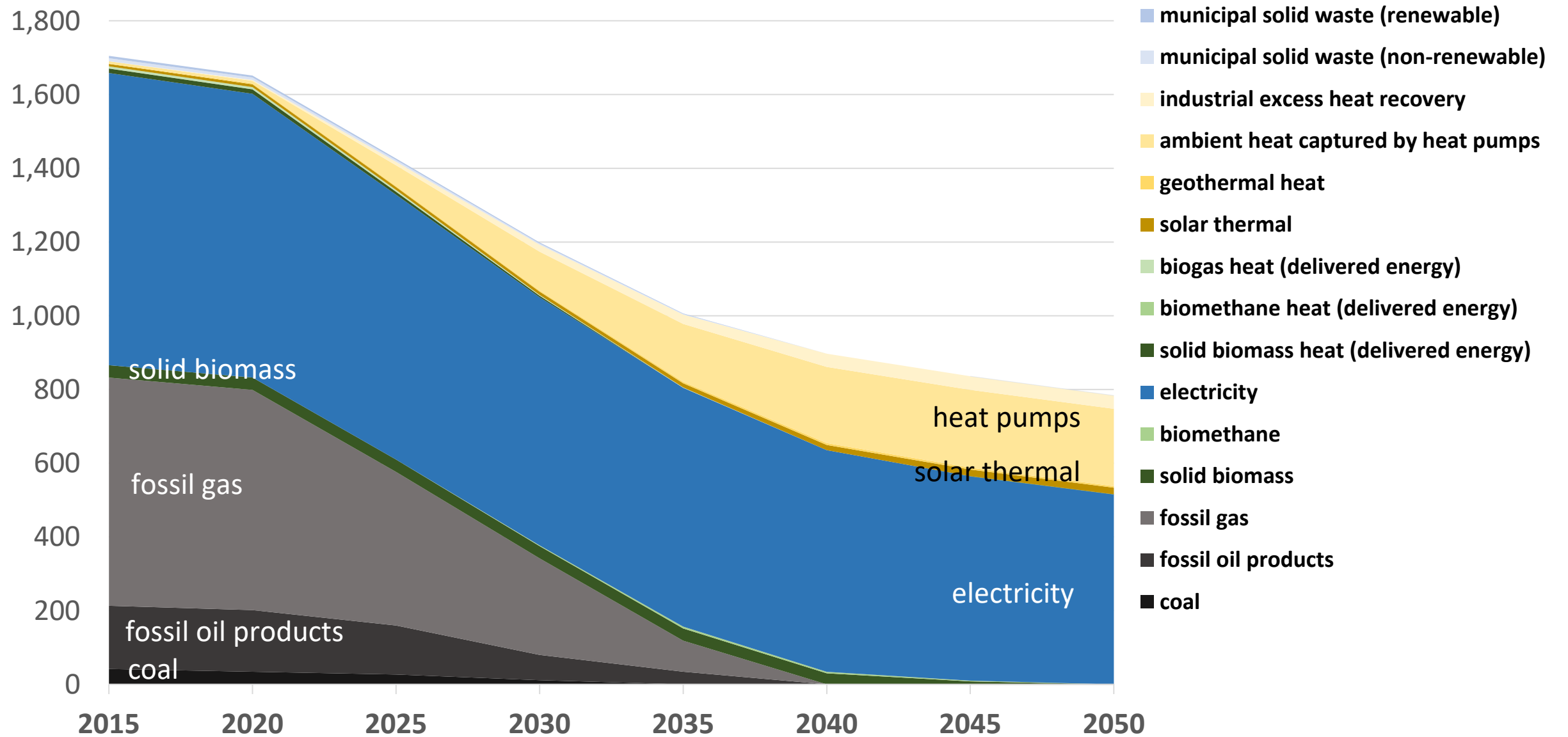
Residential sector

Residential Final energy demand EU28 [TWh] - Total



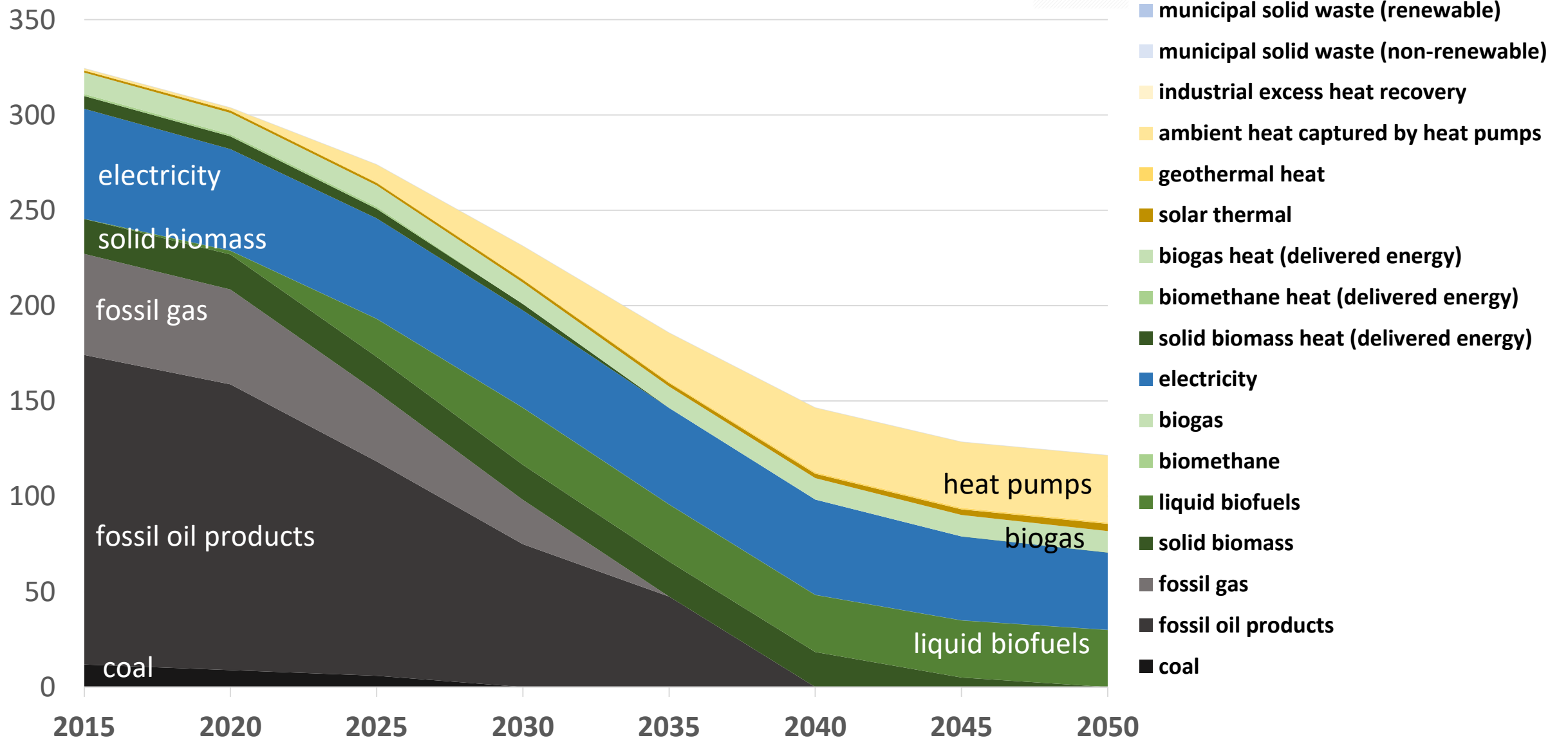
Tertiary sector

Tertiary Final energy demand EU28 [TWh] - Total



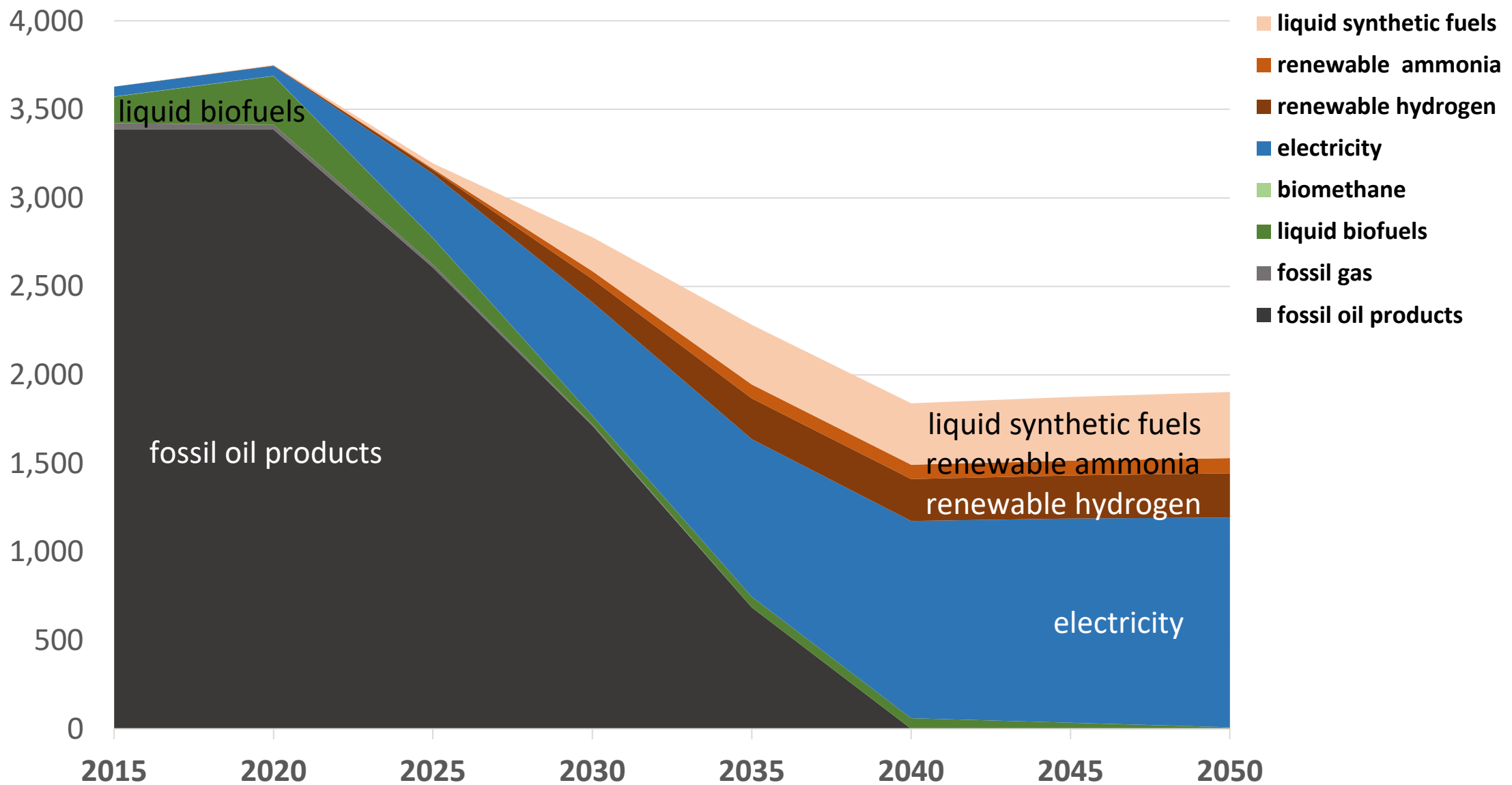
Agriculture sector

Agriculture Final energy demand EU28 [TWh] - Total



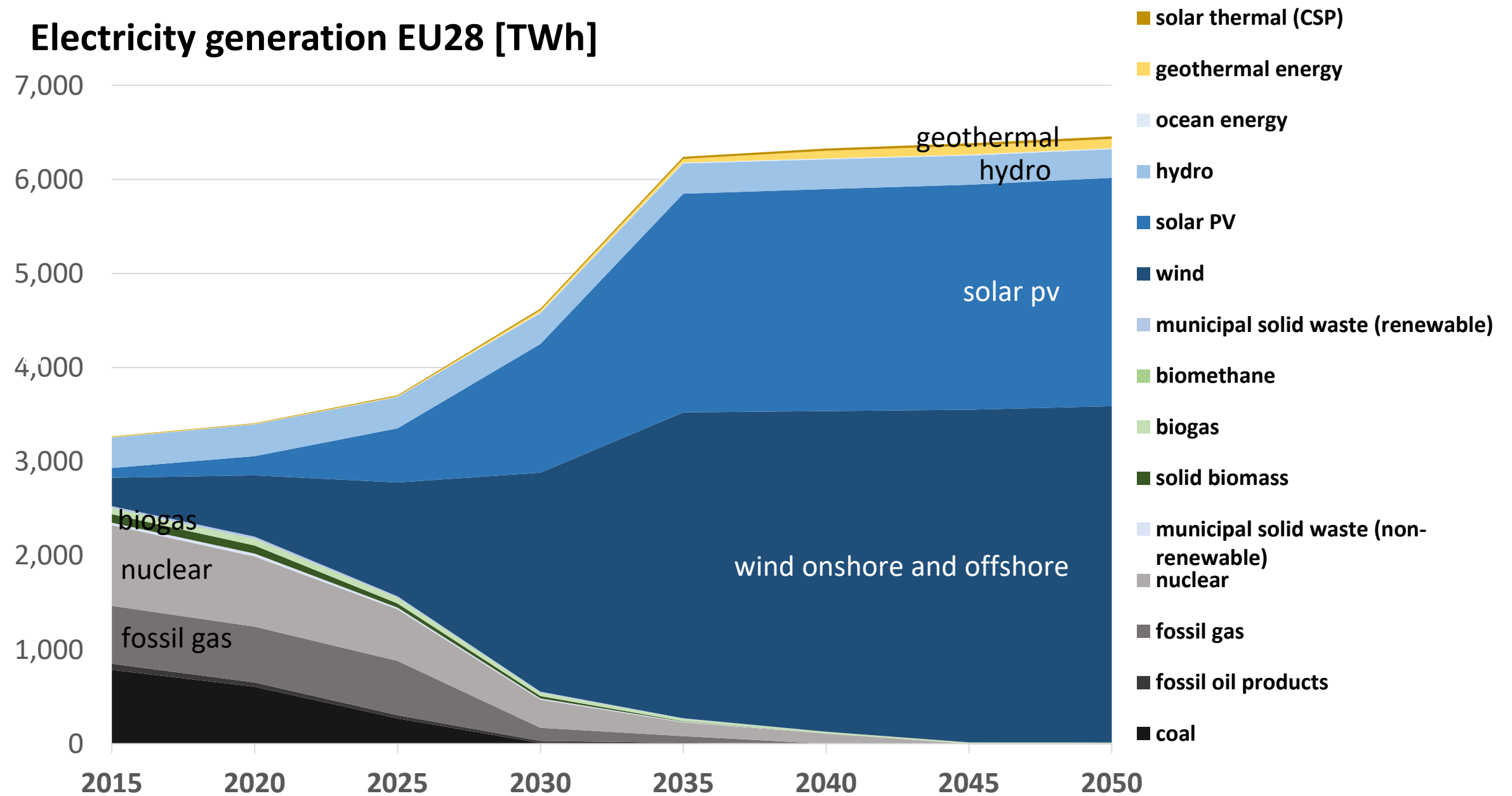
Transport sector

Transport Final energy demand EU28 [TWh] - Total



Uptake of solar and wind is key

Electricity generation EU28 [TWh]



Flexibility options: How to keep the lights on

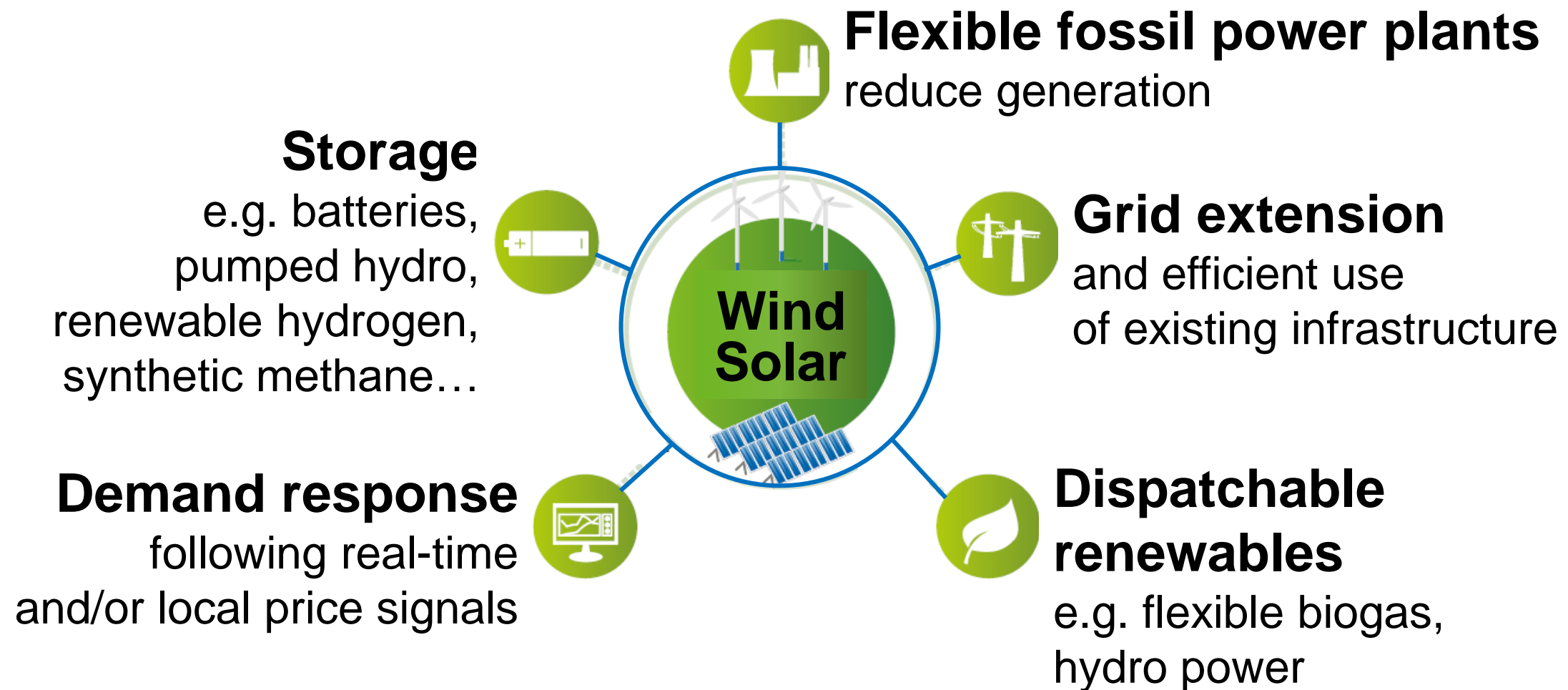


Illustration: AEE

PAC scenario in a nutshell

Civil society's scenario for

- ➔ reaching net-zero emissions by 2040
- ➔ investing into the Green Recovery
- ➔ guiding EU infrastructure planning



Illustration: AEE

Thank you!



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