

Nuclear result comparison

Modelling teams

Energy Science Center, ETH Zurich

1.12.2025

Outline

Electricity supply and demand, annual and hourly

Transport

Space heating and process heat supply

Hydrogen, methane and liquids supply and demand

Electricity supply and demand, annual and hourly

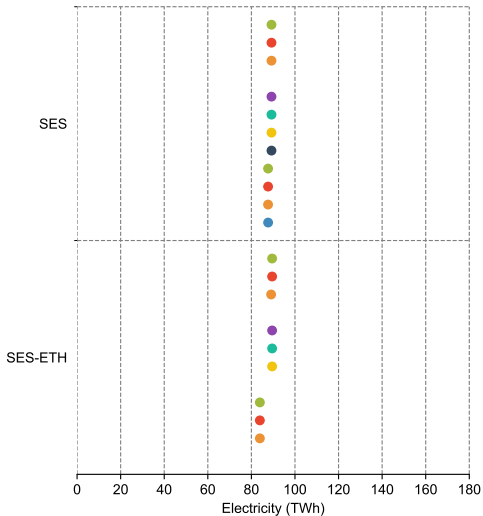
Transport

Space heating and process heat supply

Hydrogen, methane and liquids supply and demand

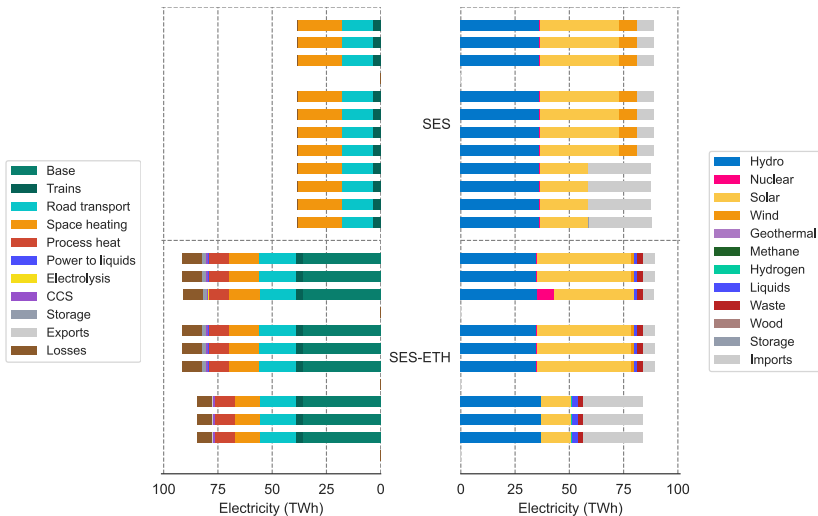
Electricity demand (2050)

Total



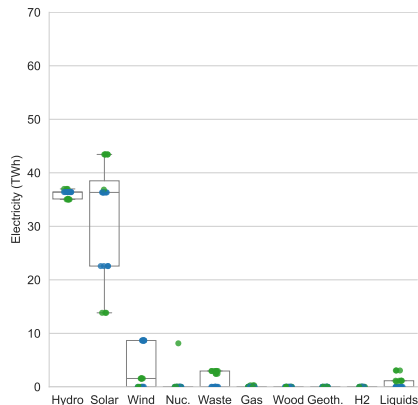
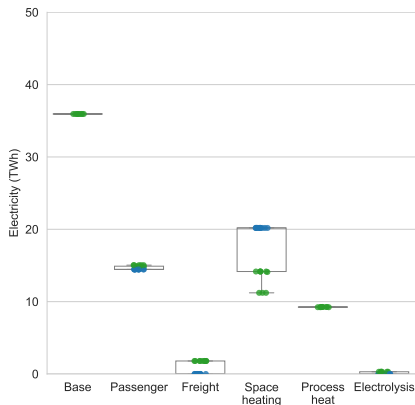
Electricity use and supply (2050)

By end-use and technology



Electricity use and supply (2050)

By end-use and technology



Legend: SecMod (purple), SES-ETH (green), STEM (red), ZEN-Garden (cyan)

Electricity supply and demand, annual and hourly

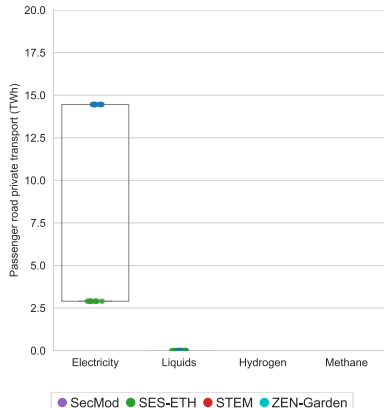
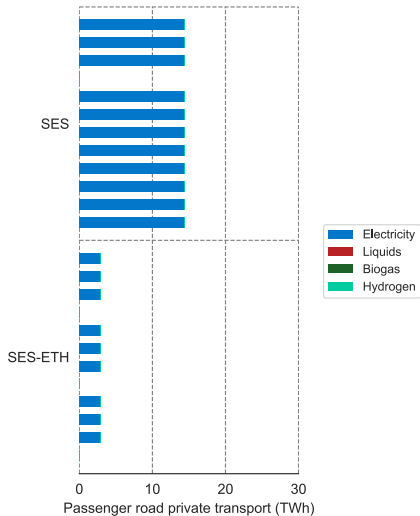
Transport

Space heating and process heat supply

Hydrogen, methane and liquids supply and demand

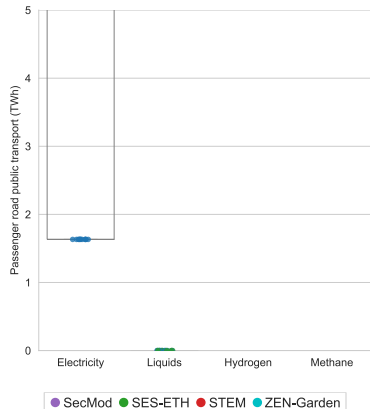
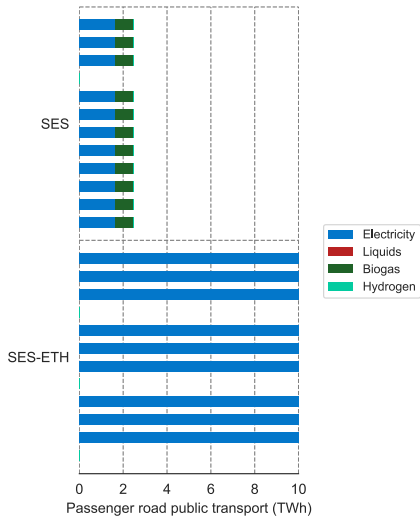
Road transport passenger private (2050)

By fuel



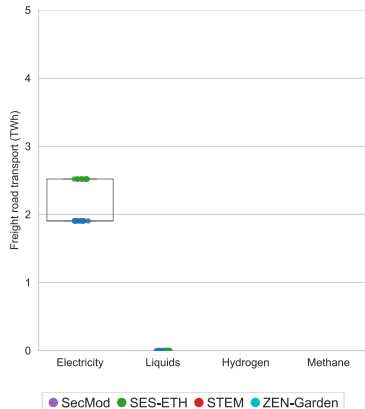
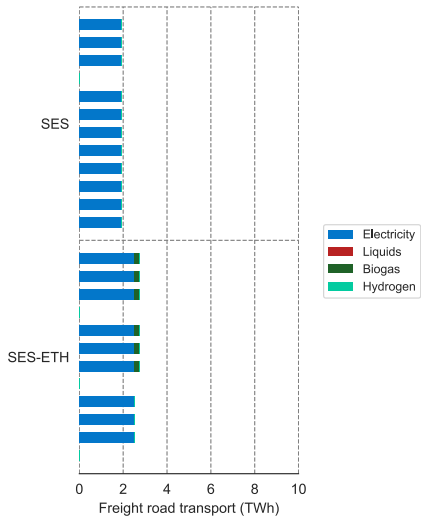
Road transport passenger public (2050)

By fuel



Freight transport (2050)

By fuel



Electricity supply and demand, annual and hourly

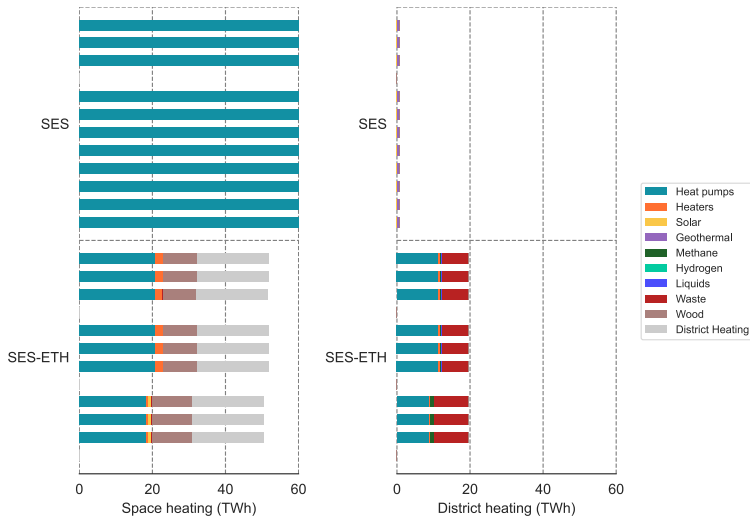
Transport

Space heating and process heat supply

Hydrogen, methane and liquids supply and demand

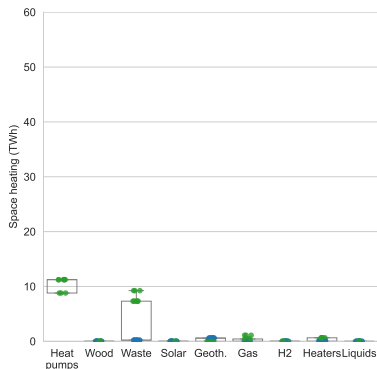
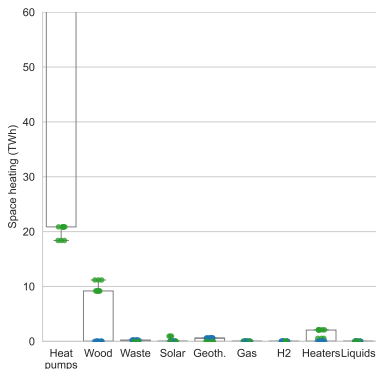
Space heating and hot water (2050)

By technology



Space heating and hot water (2050)

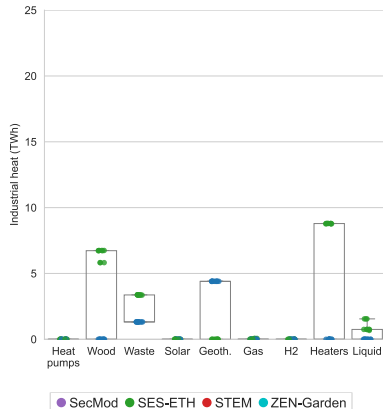
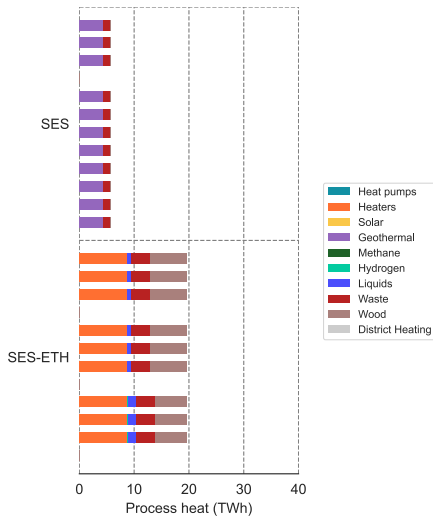
By technology



Legend: SecMod (purple), SES-ETH (green), STEM (red), ZEN-Garden (cyan)

Industrial heat (2050)

By technology



Electricity supply and demand, annual and hourly

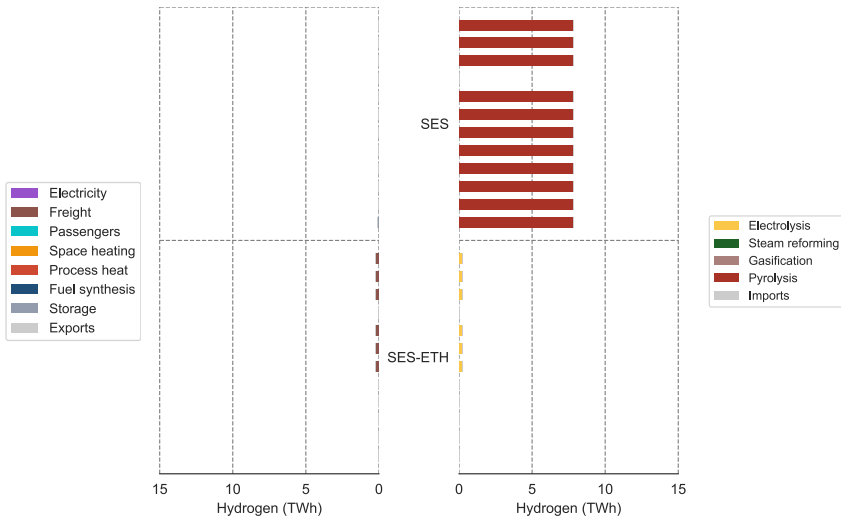
Transport

Space heating and process heat supply

Hydrogen, methane and liquids supply and demand

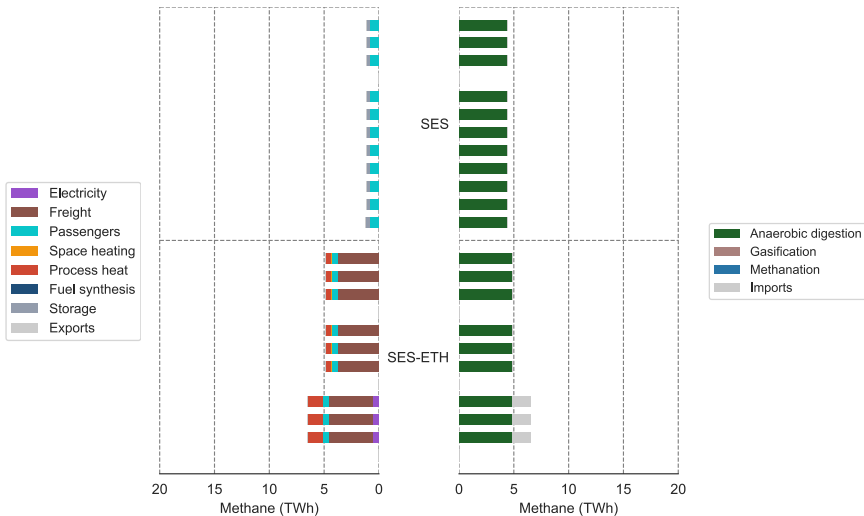
Hydrogen use and supply (2050)

By end-use and technology



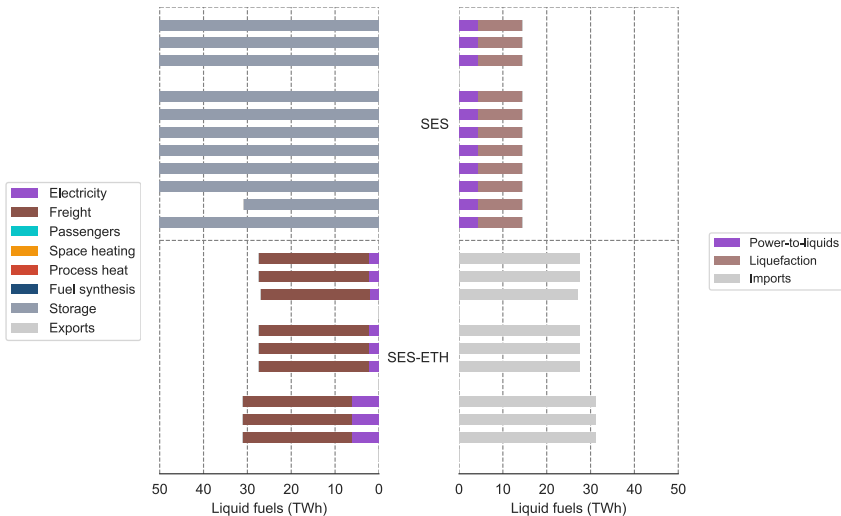
Methane use and supply (2050)

By end-use and technology



Liquids use and supply (2050)

By end-use and technology





Thank you for your attention

Acknowledgment:

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