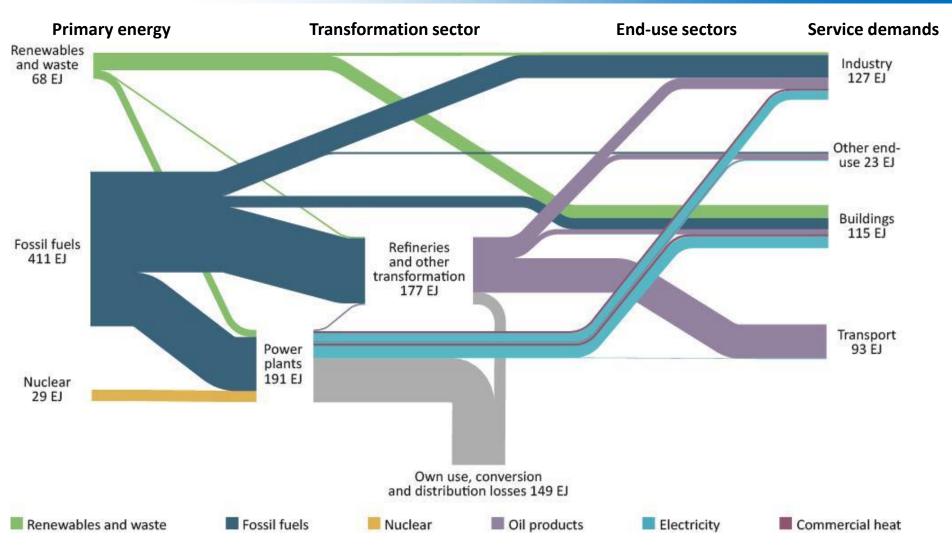




Paris, 21 January 2016



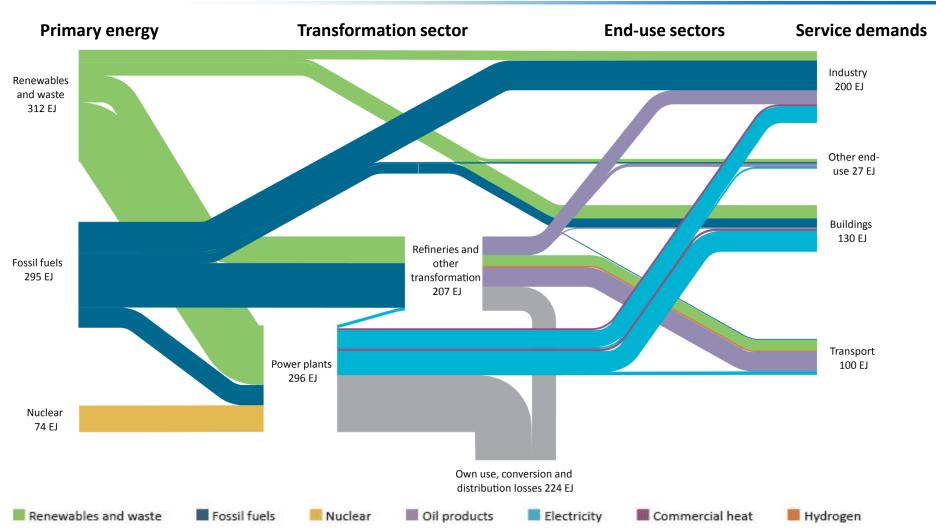
How we generate our scenarios



Global energy system today



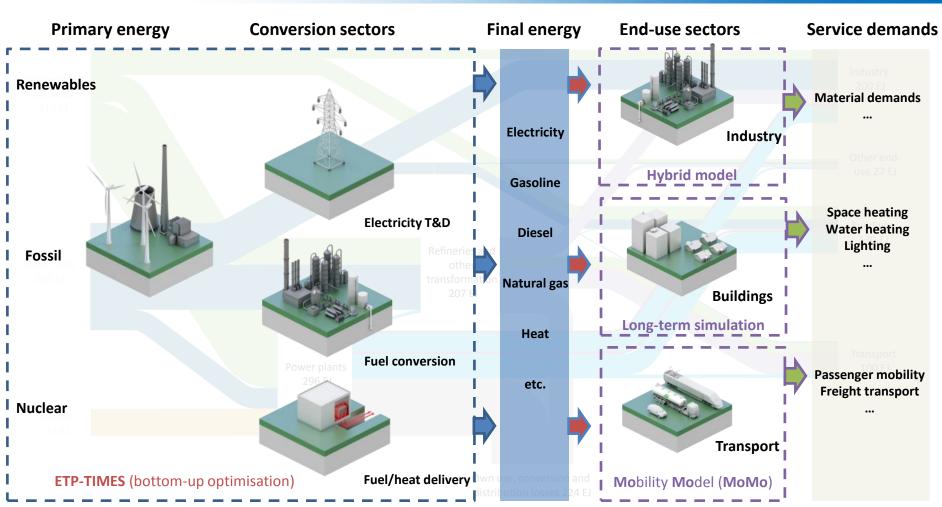
How we generate our scenarios



Global energy system in 2050



How we generate our scenarios

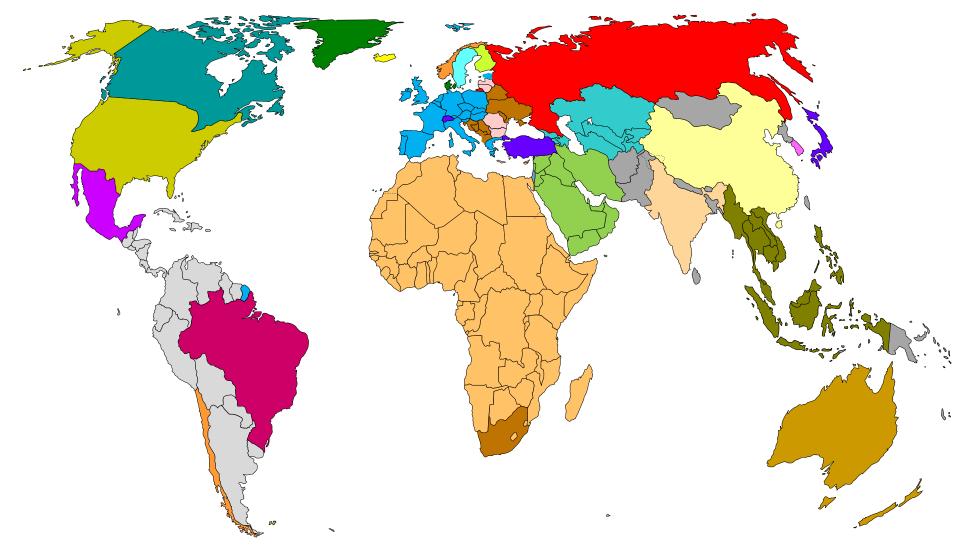


ETP model finds cost effective investment and operation of energy technologies to meet energy service demands from now to 2050



iea International Energy Agency 1974 • 2014 ETP model regions

www.iea.org





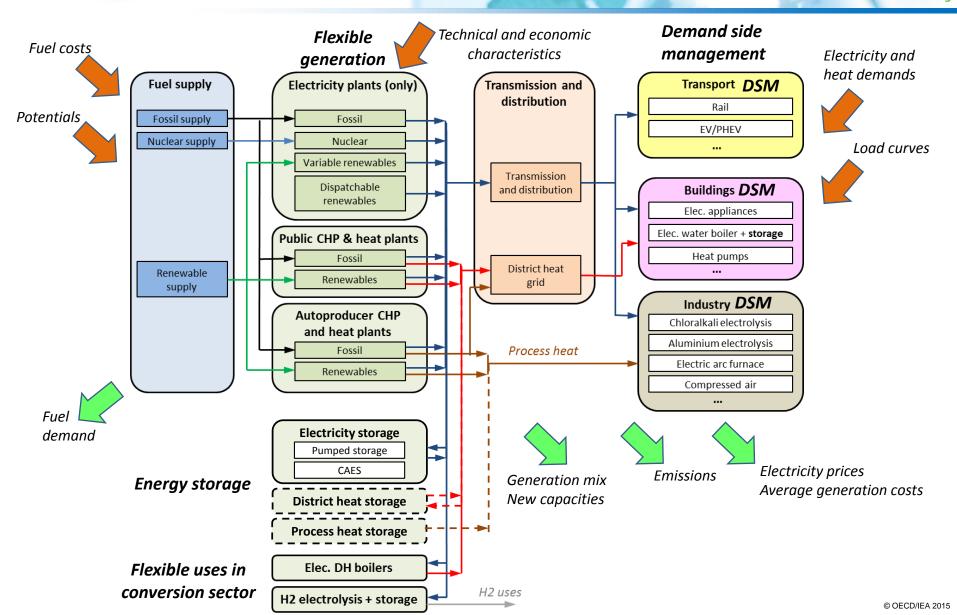


Paris, 21 January 2016 Luis Munuera



Long-term ETP-TIMES model for the power sector (and linkages with heat, fuel production, DSM)

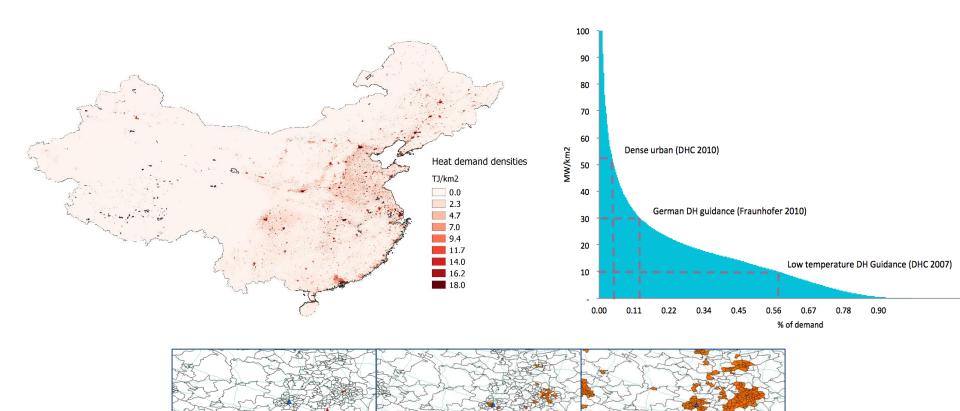
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Establish tranches of potential DH loads

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How the collaborative could assist

- Revision of technology-economic input data for CHP/district heating
 - Costs for heat and electricity technologies
 - Performance, efficiency
 - Costs for DH technology (e.g. distribution costs, heat exchangers)
- Global energy investment report (recent cost tracking)
- Local heat mapping studies / economics of DH with new technologies
- Technology and economics of flexibility from power to heat

