



GENeSYS-MOD

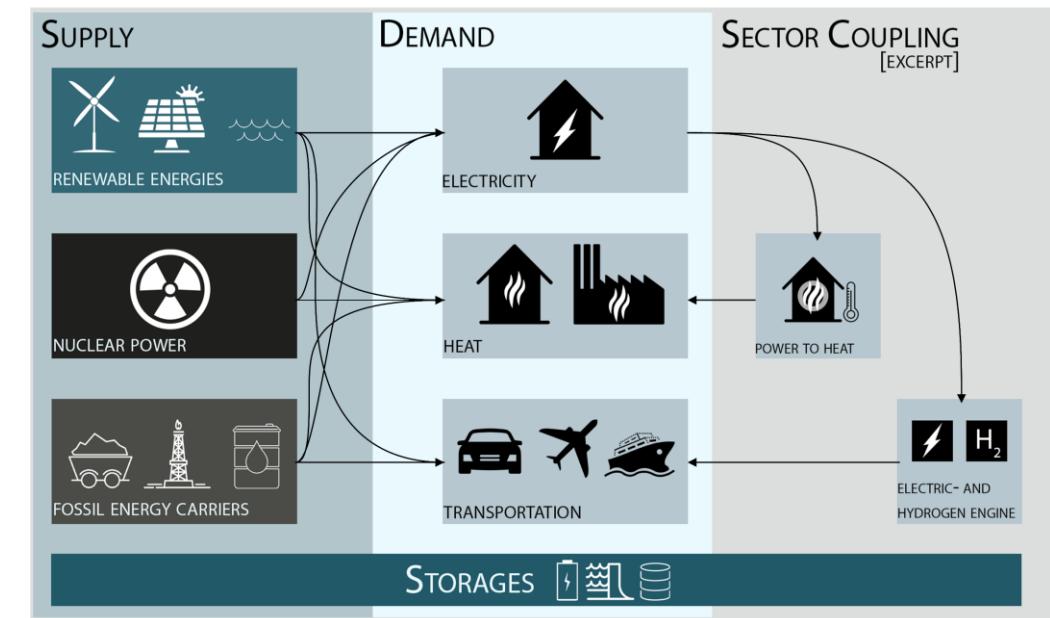


This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 773897



GENeSYS-MOD: input and outputs

- GENeSYS-MOD is a linear techno-economic framework, ideally suited to analyze medium to long term developments of the energy system
 - Sectors: Electricity, Industry, Buildings, and Transportation
 - Flexible regional focus and temporal disaggregation
 - Variable time horizon (usually until 2050)
- Typical outputs of GENeSYS-MOD are:
 - Capacity expansion
 - Dispatch of all considered final energies
 - Use of storages, flexibility options, and sector-coupling
 - Emission reductions
- Some general information
 - GENeSYS-MOD is written in GAMS
 - GENeSYS-MOD is open source



GENeSYS-MOD: Use cases

- Examples of case studies for which GENeSYS-MOD is being used or has been used in the past
 - Pathway projections of energy systems on different regional levels
 - Global
 - Continental (Europe)
 - Single Countries (Germany, China, India, Mexico, Japan, South Africa)
 - Effects of short-sightedness of policy action with a special focus on stranded assets
 - Effects of different carbon budget allocation mechanisms in the European Union
 - Effects of employment developments through the energy system transformation
 - Sensitivity of the energy system with respect to varying (and uncertain) input parameters

Thank you, questions?



<https://coaltransitions.org/>
<https://www.coalexit.tu-berlin.de/>
Documentation



@CoalExit
@CoalTransition



CoalExit Research Group



kh@wip.tu-berlin.de
kl@wip.tu-berlin.de
thb@wip.tu-berlin.de