

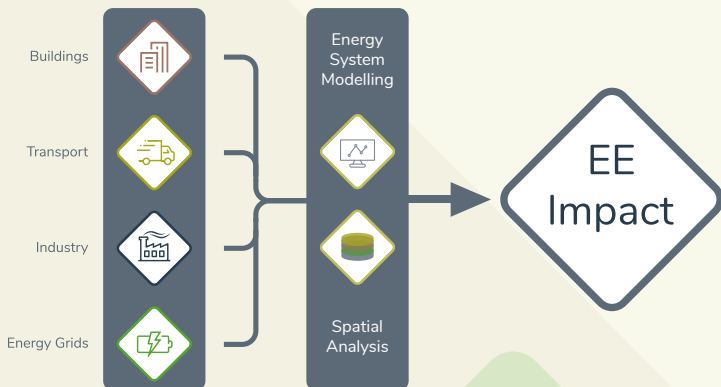


Quantification of synergies between Energy Efficiency First Principle and renewable energy systems for 2050 decarbonisation

As a response to the European Commission's 2050 decarbonisation goals, **sEnergies** uniquely considers all aspects of the Energy Efficiency (EE) First Principle. By applying it in **sectors and markets, country-by-country and grid-by-grid**, and by **combining temporal and spatial analyses**, **sEnergies** will develop an innovative, holistic and research-based EE-modelling approach.

The overall aim of **sEnergies** is to **quantify and operationalise the potentials for energy efficiency in buildings, transport and industry**. The project goes beyond state-of-the-art science-based knowledge and methods, as it combines **sectorial bottom-up knowledge with hour-by-hour modelling of the energy systems and spatial analysis in the EU**.

Novel EE Modelling



Project Objectives



Develop a holistic temporal and spatial assessment of energy efficiency potentials by utilising energy systems synergies and in this way make Energy Efficiency First Principle more operational.



Assess the energy-related impact of Energy Efficiency First Principle at the sector and energy system levels to quantify energy efficiency and make it comparable with investments on the supply side.



Assess the additional impact of energy efficiency measures in different sectors, as well as their impact on markets, in order to support policies, aiming at promoting and implementing the Energy Efficiency First Principle.



Develop an online GIS visualization platform to make Energy Efficiency First Principle more concrete in relation to energy demand and supply.



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