

Project overview New Energy Coalition/Energy Valley

Project logo	-
Project acronym	-
Project name	Integrated Energy System Analysis
Project goal	To develop, improve and implement available models in order to provide better insights in the linkages and interactions of future integrated energy systems with increasing shares of intermittent renewables in the electricity supply.
Programme	ESTRAC
Start date	1 January 2018
End date	1 January 2022
Funding funding rate	M€ 1.339 73 %
Total project costs	M€ 1.831
Project summary	<p>It is to be expected that variable and uncertain energy sources such as wind and sun will have a considerable share in electricity generation. Integrating this intermittent generation will require increasing levels of flexibility in both supply from other sources and from demand, a flexibility that will not only be provided within the electricity system but which can also be found in other parts of the energy system, such as in gas supply and demand and in the provision of heat for both space heating and for agriculture and industrial processes.</p> <p>Understanding the possible interlinkages and interactions between the different parts of this increasingly integrated energy system (such as gas, electricity, heat) will be vital in order to be able to make the right investment decisions on, among others, infrastructure, energy production and spatial planning, to design policies and regulation which will provide the right incentives and to allow flexibility to be used from within the whole energy system. This will also require insights in the transition path itself, in the possible ways in which the energy system can evolve towards a future low-carbon system. The object of this research program is to provide insights in the linkages and interactions</p>

	of future integrated energy systems with increasing shares of intermittent renewables in the electricity supply.
Projectwebsite	-
Thematic area	Local Energy Systems; Industrial Transformation; and Hydrogen
Our roles in project	Within project no role since research is conducted by our knowledge partners RUG, HG and TNO, but NEC is monitoring this project and provides support in dissemination and stakeholder interaction as part of support activities for ESTRAC.
Co-workers involved	Robbert-Jan Slobben
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Project partners	TNO, RUG, PBL, EBN, NAM, Gasunie, GasTerra