

Arjen Jongepier, who works on innovation and sustainability for Dutch grid operator Stedin, discusses the challenges and opportunities in integrating renewable energy sources into the modern electricity grid, among ...

The Smart Grid Interoperability Lab (SGIL) of the JRC in Petten, the Netherlands is a testing facility on the interoperability of smart grid systems. Its aim is to assess technological implementations according to proposed standards, use cases and processes in conjunction with applicable reference architectures.

Designing for justice in electricity systems: A comparison of smart grid experiments in the Netherlands  
Christine Milchram a, \*, Rolf K&#252;nneke a, Neelke Doorn a, Geerten van de Kaa a,

Two residential Smart Grid pilots, PowerMatching City, Groningen (NL) and Pecan Street, Austin Texas (USA) have been compared regarding their energy performance and the experiences of users in ...

With this, Utrecht became 2015 Solar City of the Netherlands, leading the way with regard to installed solar panel power, smart grid technology and solar V2G charging infrastructure for e-cars. This is also illustrated by the 2015 nomination for the European e-CarTec Award of Utrecht's smart charging infrastructure for e-cars connected with ...

@article{Obinna2017ComparisonOT, title={Comparison of two residential Smart Grid pilots in the Netherlands and in the USA, focusing on energy performance and user experiences}, author={Uchechi Obinna and Peter Joore and L. S. G. L. Wauben and Ang{`e}le Reinders}, journal={Applied Energy}, year={2017}, volume={191}, pages={264-275}, url={https ...

Dutch industry and government showcase opportunities for foreign companies to accelerate their smart grid innovation here. The Netherlands is working full force on powering the energy transition. With smart innovation ...

The Netherlands is pioneering green hydrogen, battery and smart-grid energy technologies; To stimulate industry, the Dutch government offers EUR500m investment to stimulate a EUR1.25bn hydrogen cluster; The Netherlands has 4GW of electrolyzer capacity, 21 GW offshore wind and 136,000km of hydrogen-retrofitted natural gas pipeline by 2030

This paper presents an analysis that frames the impact of various smart grid technologies, with an objective to provide a transparent framework for residential smart grid demonstration projects based on predefined and clearly formulated key performance indicators. The analysis inspects measured energy data of 217 households from three smart grid pilot ...

Netherlands Smart home Smart grid Do you want to know more? This project has received funding from the European Union's Horizon 2020 research and innovation programme under Grant agreement No 857237  
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Grid operator Enexis Netbeheer is building an Internet of Things-inspired smart grid and has 900,000 connected smart electricity meters already, with more planned. ... Smart meters are going to be an essential part of the smart grid in the Netherlands, which is aiming to increase its share of sustainable energy to 16% by 2023, and almost 100% ...

This pilot started in 2007 and was carried out in the city of Groningen, located in the Northern part of the Netherlands [17]. Technologies implemented include hybrid heat pumps, in-home energy displays, PowerMatcher energy matching software, photovoltaic systems, smart meters and smart appliances, smart thermostats, micro-combined heat and power (CHP) ...

In future urban energy systems, smart grid systems will be crucial for the integration of renewable energy. However, their deployment has moral implications, for example regarding data privacy ...

Smart Grid Flevoland is een modern elektriciteitsnetwerk dat de vraag en aanbod van energie in evenwicht brengt. We brengen centrale en decentrale producenten in Flevoland bij elkaar en faciliteren duurzame opwekinstallaties, energieopslag en energietoepassingen. Daarnaast zorgen we voor de benodigde flexibilisering van de energievoorziening ...

The Dutch energy sector benefits from being part of one of the world's most advanced digital infrastructures. This high level of connectivity provides vast opportunities to develop and scale smart grid solutions in a way that can be replicated across the globe. ... The smart grid has been running successfully since 2018, and the technology ...

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