

# PPP-Future Internet

Input to Use Case workshop

TNO | Knowledge for business



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Smart Energy / Grids

eHealth / Healthy Living

Smart Agriculture

Smart Content

eGovernment

Smart Mobility

Smart City / Living



## Use Case: Smart Energy



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## Use Case: Smart Energy Developments

Driven by an increasing demand for **sustainability** while maintaining current levels of **reliability** and **affordability** of the energy system.

Sustainability can be catered for by increasing **energy efficiency** and leveraging (distributed and intermittent) **renewable energy sources**.

This is enabled by future internet applications such as:

- Smart Metering
- Smart Grid
- Active Distribution Networks
- End User (Prosumer) Marketplaces

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## Use Case: Smart Energy Trackrecord

Research and innovation for the design and implementation of:

- **energy internet** for control and communication
- **energy services** enabling sustainability and new business models

• *Cooperation with:*

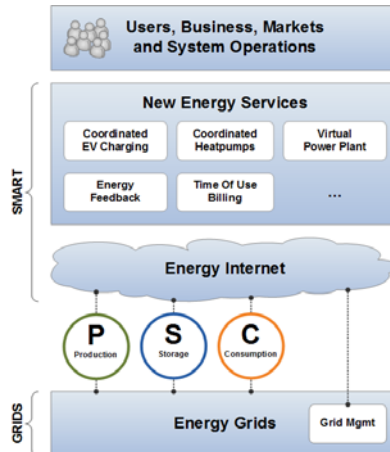
ICT partners:



Knowledge partners:



Energy grid operators and suppliers:



## Use Case: Smart Energy Trackrecord

- Project with 'Netbeheer Nederland' (federation of regional and national energy network management organisations)
  - vision on smart grids
  - securing smart meters
- Project with Dutch government on policy development around smart meters
- MetaEMS – project with greenhouses
  - Intelligent distribution of energy over greenhouses based on weather forecasting
- Project on smart grids for electrical car

