

The Eandis logo consists of the word "eandis" in a blue, lowercase, sans-serif font. The letter "e" is stylized with a blue swoosh that extends to the right and then curves upwards. A green horizontal line is positioned above the "i" and "s".

eandis

altijd in uw buurt



CEDEC

Between smart grids and smart markets

Walter Van den Bossche

The Eandis logo, featuring the word "eandis" in blue lowercase letters with a blue swoosh and a green horizontal line above the "i" and "s".

eandis

Big Challenge for the Energy Sector

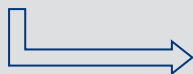


■ More local generation

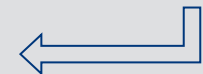
- Upstream Energy as a result of local injection
- Fluctuating and little controllable
- The network behaves **bidirectional**
- Injection back into the Transmission network

■ Shift from fossil fuels to electricity :

- Relatively bigger share of electrical consumption
 - Electric vehicles appear at the scene
 - Heat pumps



Problem of **simultaneity** and **availability**



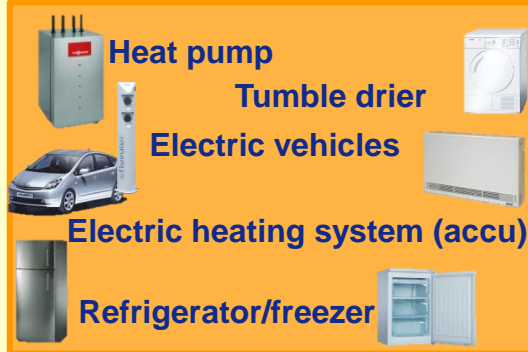
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Impact on processes
Need for specific economic models
Tariffs, contracts ...

Smart Meters between Smart Grids and Smart Markets

Smart Markets

Smart Users - Smart Home - Smart City

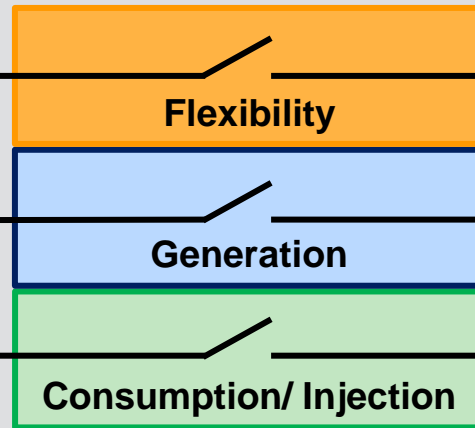
PhotoVoltaic Solar Panel
µCHP



- Basic lighting
- Media/communication
- Auxiliary heating/cooling
- Urgencies
- Smart appliances

- INTERNET OF THINGS
- INFORMATION
- DYNAMIC PRICING

Smart Meters



Clearing House

SMART MARKETS:

- Suppliers
- ESCOs
- Aggregators

Smart Grids

GRID PARAMETERS
METERING DATA

- FLEXIBILITY
- CONGESTION MANAGEMENT