



PowerMatching City

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STARGRID workshop

April 10th, 2014



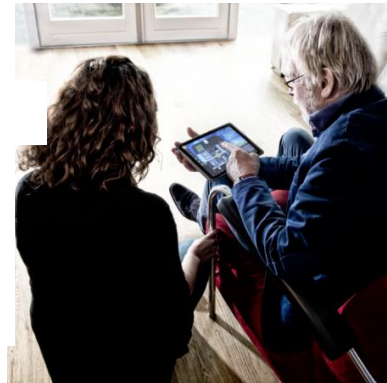
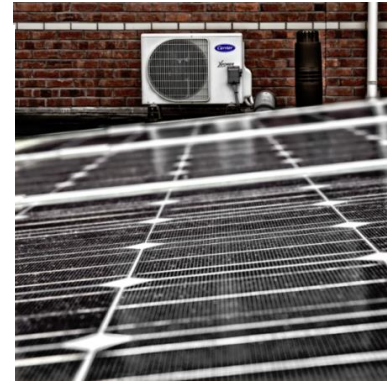
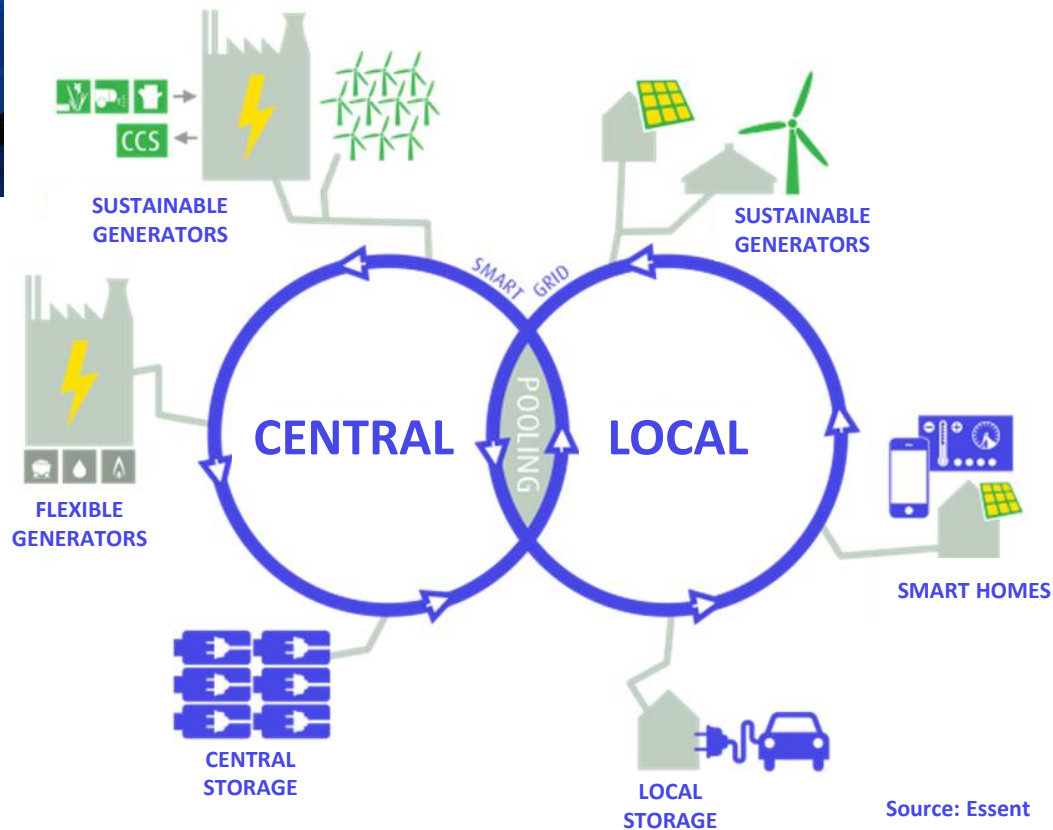
Introducing myself



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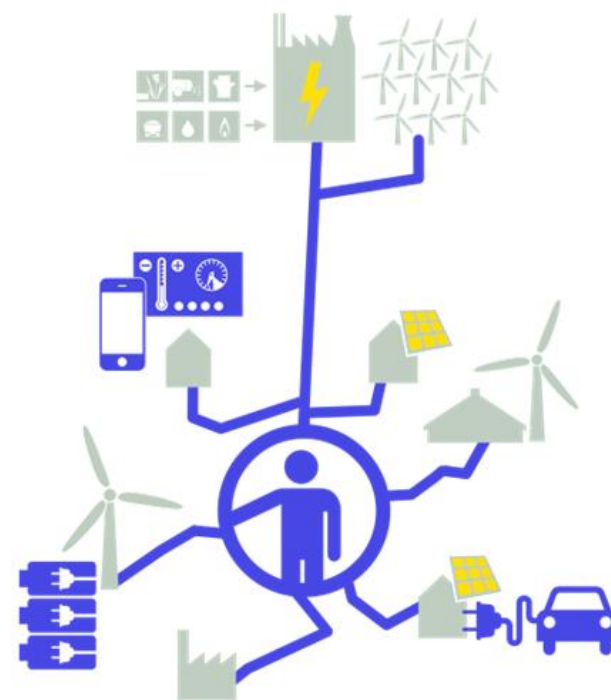
ICT Automatisering

Our energy system is changing



PowerMatching City goals

1. Demonstrating and testing of smart energy services
 - end user services
 - Capacity management
 - Wholesale processes and billing
2. Determine the value of a smart energy system by validating existing cost/benefit models.



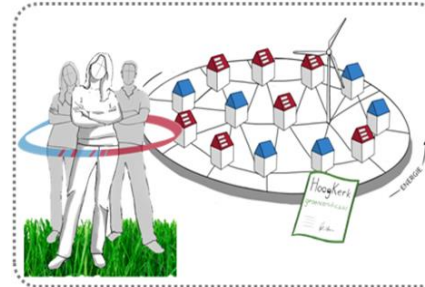
PowerMatching City



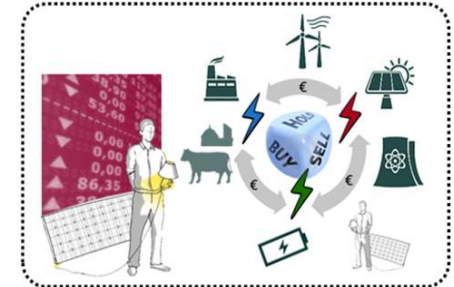
Insight Services



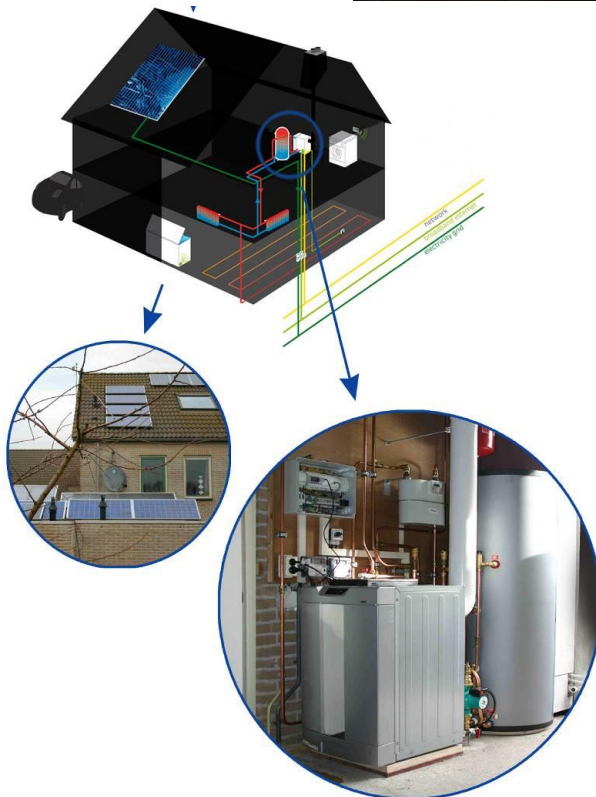
Community Services



Smart Savings



40 Households – 250 devices



Intermittent Renewable Energy Sources



Smart Hybrid Heat Pumps



mCHP for Flexible Power

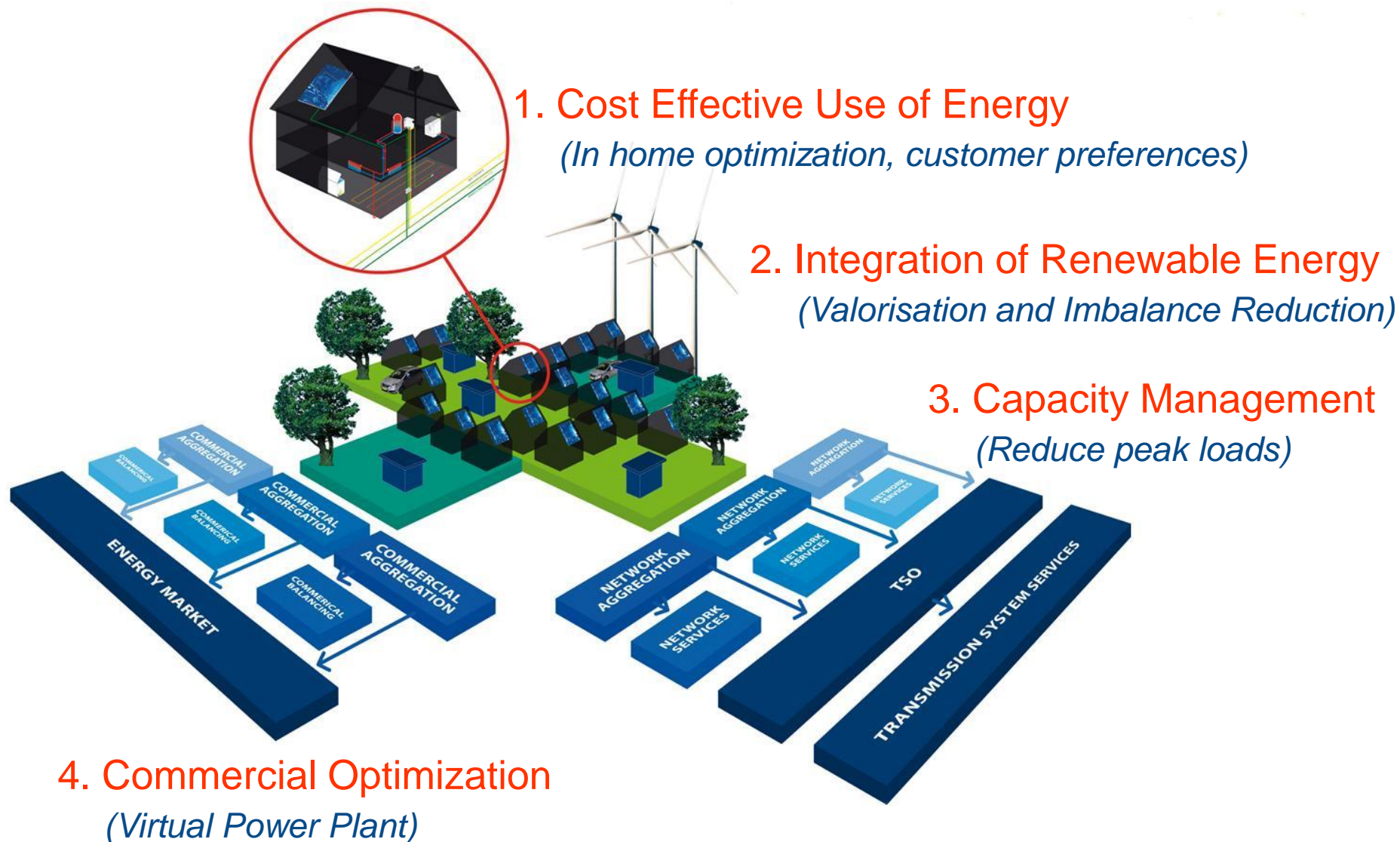
Smart Appliances for Demand Response



Smart Charged Electric Vehicles

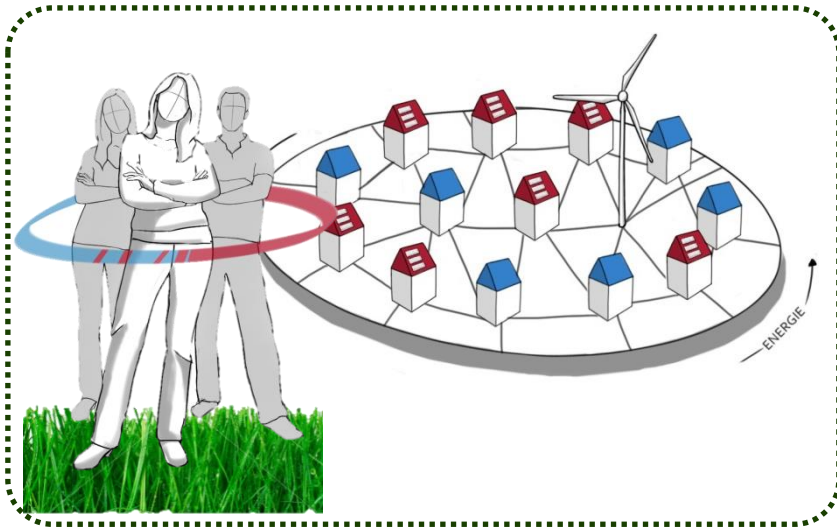


PowerMatching City Scope



Two different propositions

1 Together more sustainable

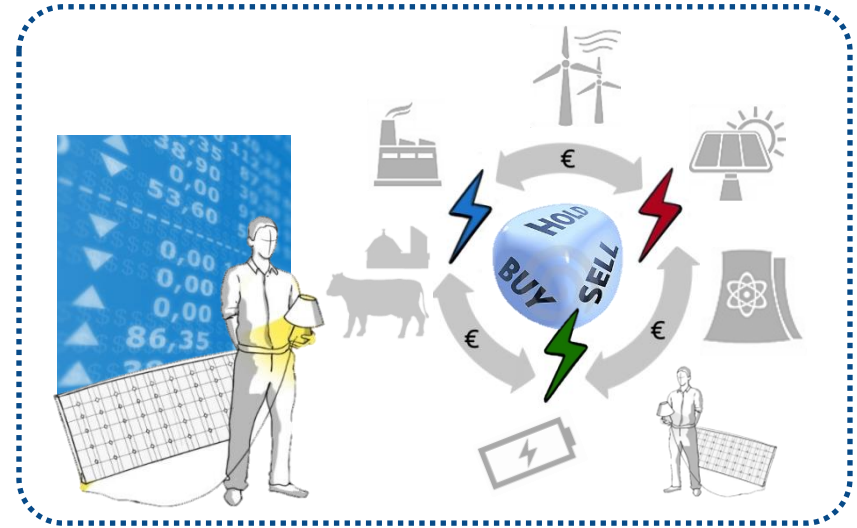


Maximize the usage of sustainable energy from the community

Sustainable

Independence

2 Smart costs savings



Profit from the lowest energy prices

Costs

Comfort

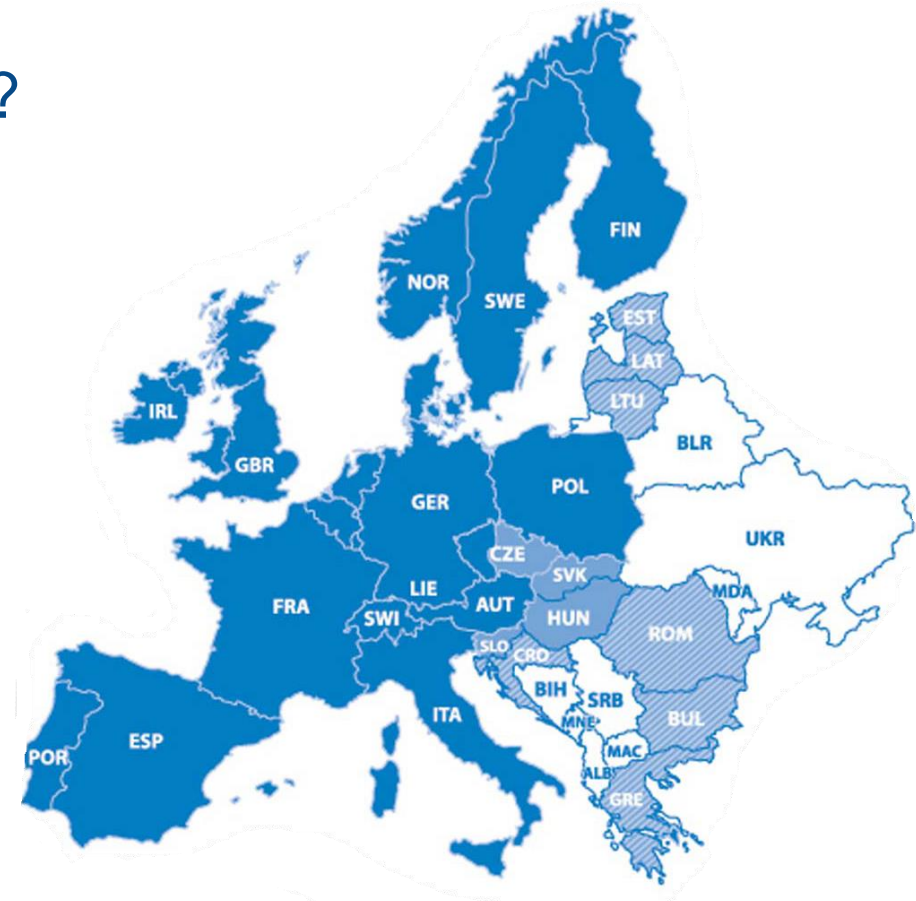
Smart Energy Services

How to reach viable services?

- business case
- market model
- role model
- standardisation

Technical impact:

- reduce cost to connect
- reduce cost to serve
- keep maximum flexibility
- scalability
- privacy/security



> 100 million households in
target countries

User portal: home screen community



User portal: home screen costs



User portal: energy sources



User portal: historical data

