

Energy of the Future

Reliable. Efficient. Smart



The Voice of local Energy
Distributors across Europe

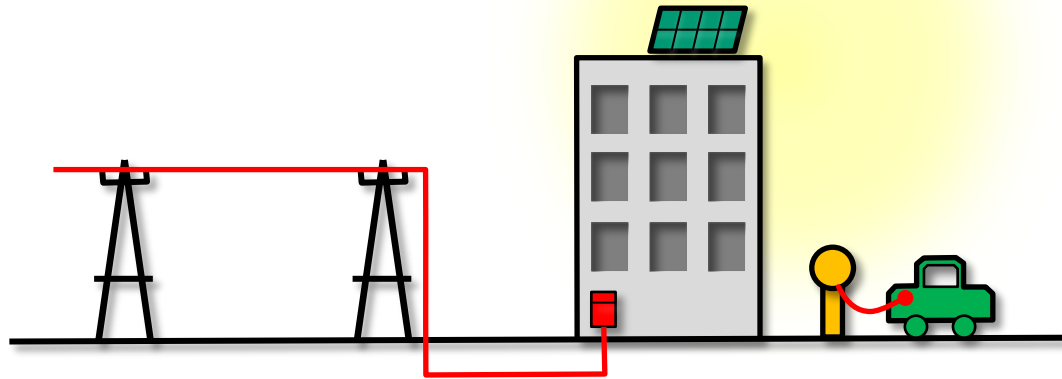
THINK GLOBAL ACT LOCAL



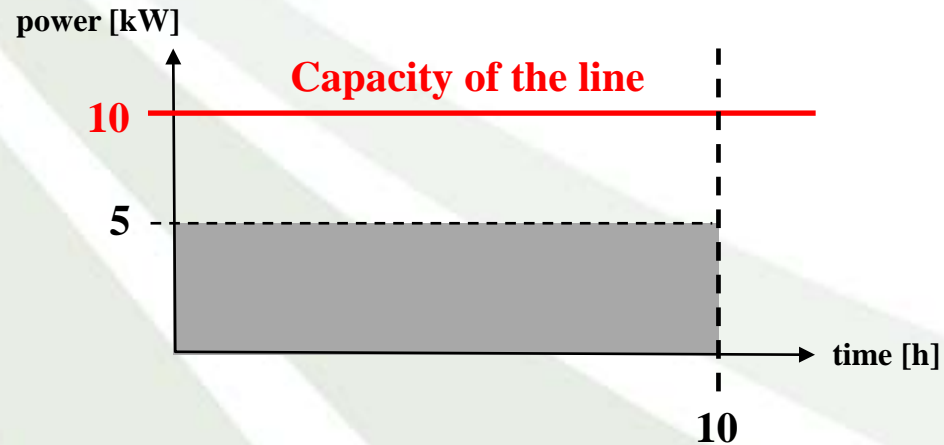
GEODE – the Voice of local Energy Distributors across Europe - is representing more than 1200 independent Electricity and Gas distribution Companies through single companies and associations.

Our Members from 14 European Countries distribute Energy to more than 100 million people!

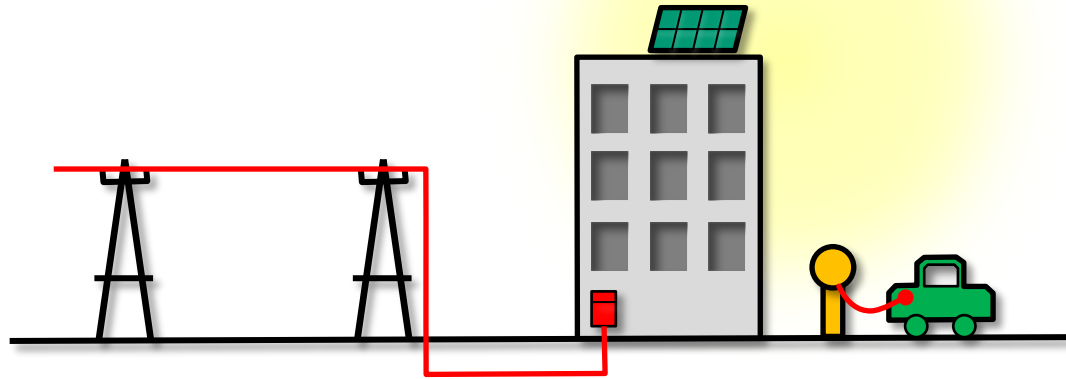
Power vs. Energy



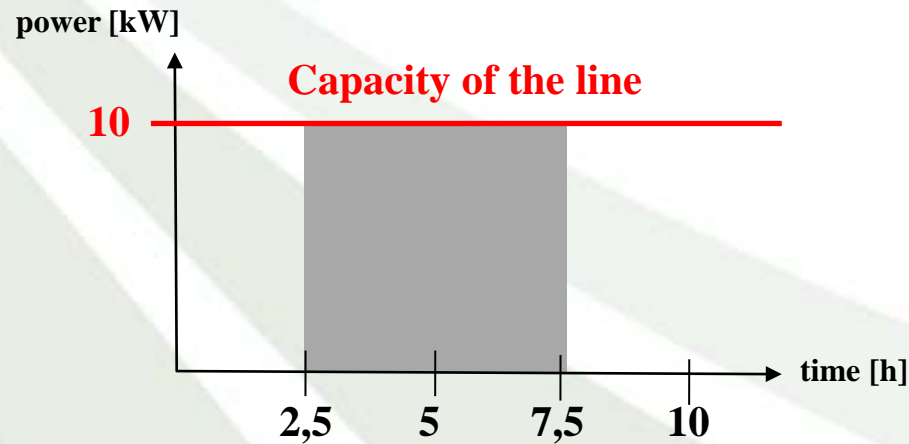
Case1 (idealistic): 5kW power used (peak load)
50kWh energy used



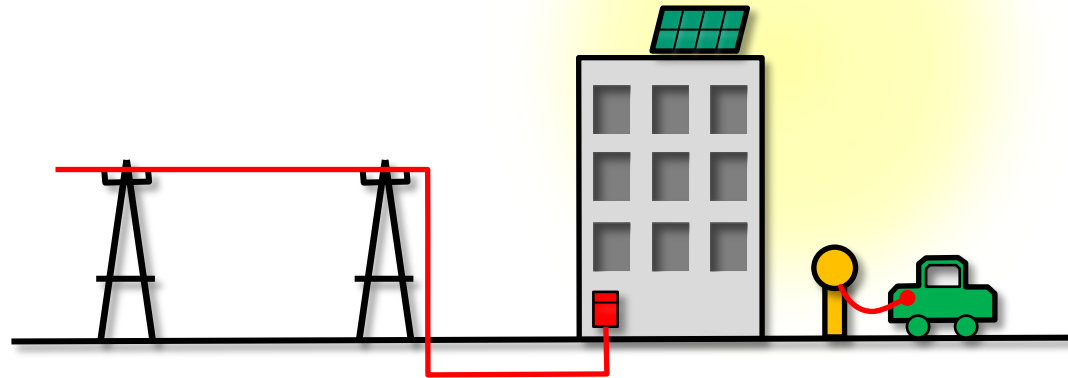
Power vs. Energy



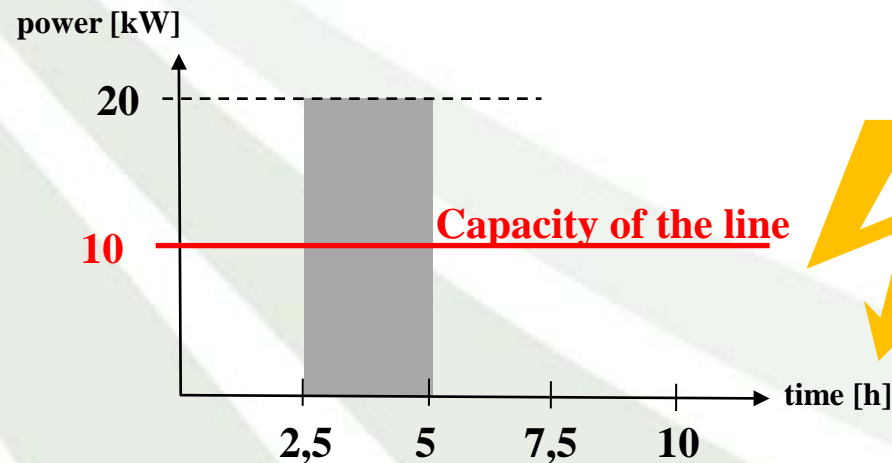
Case2: 10kW power used (peak load)
50kWh energy used



Power vs. Energy



Case3: 20kW power used (peak load)
50kWh energy used



DSF: Opportunities for DSOs



- For a DSO, **power** is the key dimension for operating and planning an electricity distribution grid
- DSF is about **shifting / „saving“ power** not energy !
- DSF actions of market players always have an impact on the local conditions of the distribution grid.
- DSF offers opportunities for DSOs to cope with future challenges – this requires:
 - Access to DSF services
 - Power based grid tariffs
 - Adequate regulatory framework
- DSF is a puzzle stone of a smart grid, but **it´s not a silver bullet**

Customer's engagement is vital !

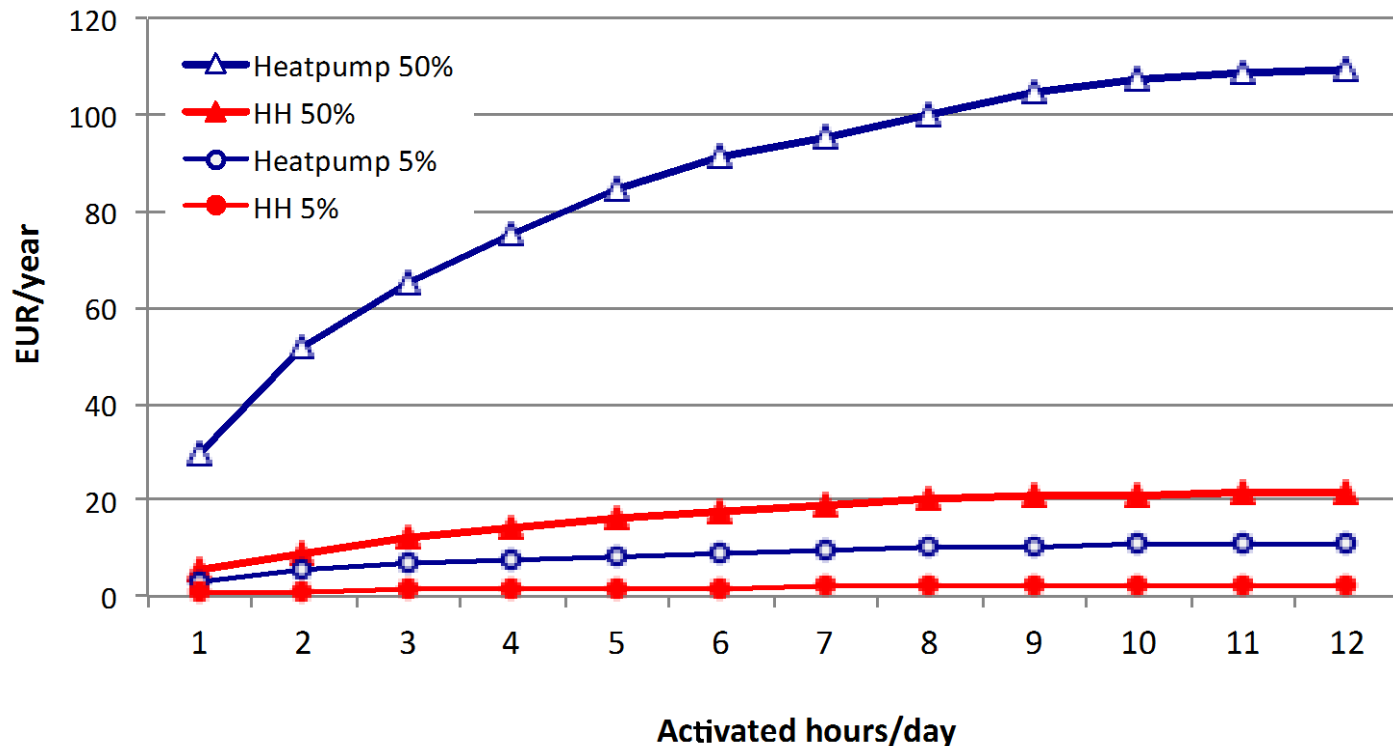
- information
- simple & transparent products
- must not impact living comfort
- adequate incentives



Where is the potential ?

Possible cost saving potential of households and heat pumps by load shifting (based on spot markets)

Cost savings for 5% vs. 50% load shifting per activated hour



Customers engagement is vital !

- Incentives needed
- Realistic view on flexibility potentials is required !



DSO rules !

- Facilitation of services
- System monitoring & control
(ensuring quality & system stability)



Thank you for your attention !



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GEODE

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