

Energy of the Future

Reliable. Efficient. Smart



Distribution Systems in Actions – The Local Demands of an Energy Union

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Carmen Gimeno, Secretary General



THINK GLOBAL ACT LOCAL !



GEODE - The Voice of local Energy
Distribution Companies

GEODE was founded in 1991

We represent more than **1200** independent
Electricity & Gas distribution
Companies through single companies and
associations

*Our Members distribute Energy to more than **100 million** people!*

Energy Distributors across Europe

Distribution Systems are the Backbone of Europe's Energy Infrastructure!

2750 Electricity & 810 Gas Distribution Companies in EU - varying in concentration and size significantly across Europe - **many** of which **operate at local level!**

Only 195 electricity DSOs are larger than 1000.000 customers

Source: Eurelectric

195 DSOs larger than 100,000 customers



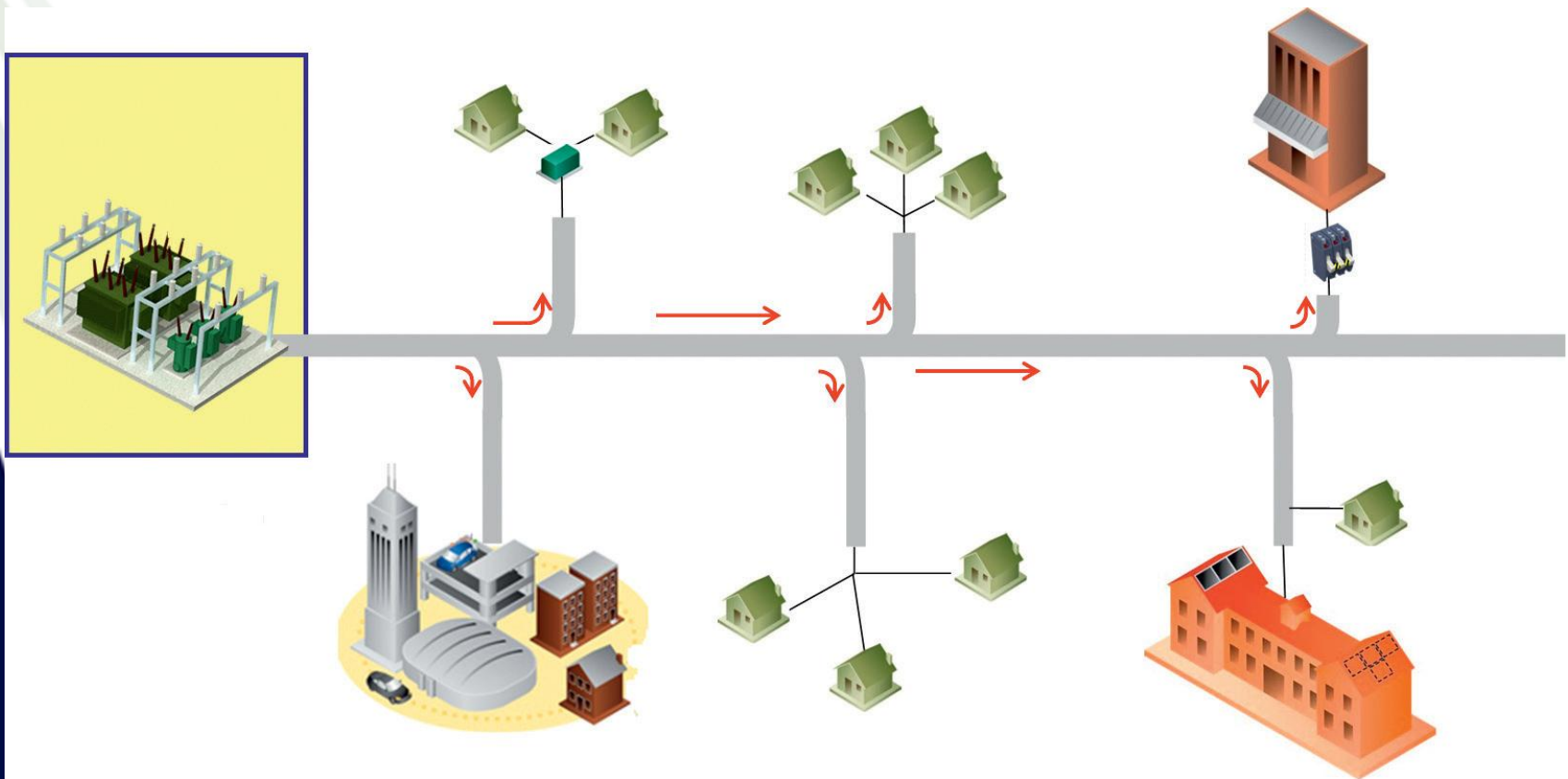
LOCAL DSOs FOR LOCAL NEEDS



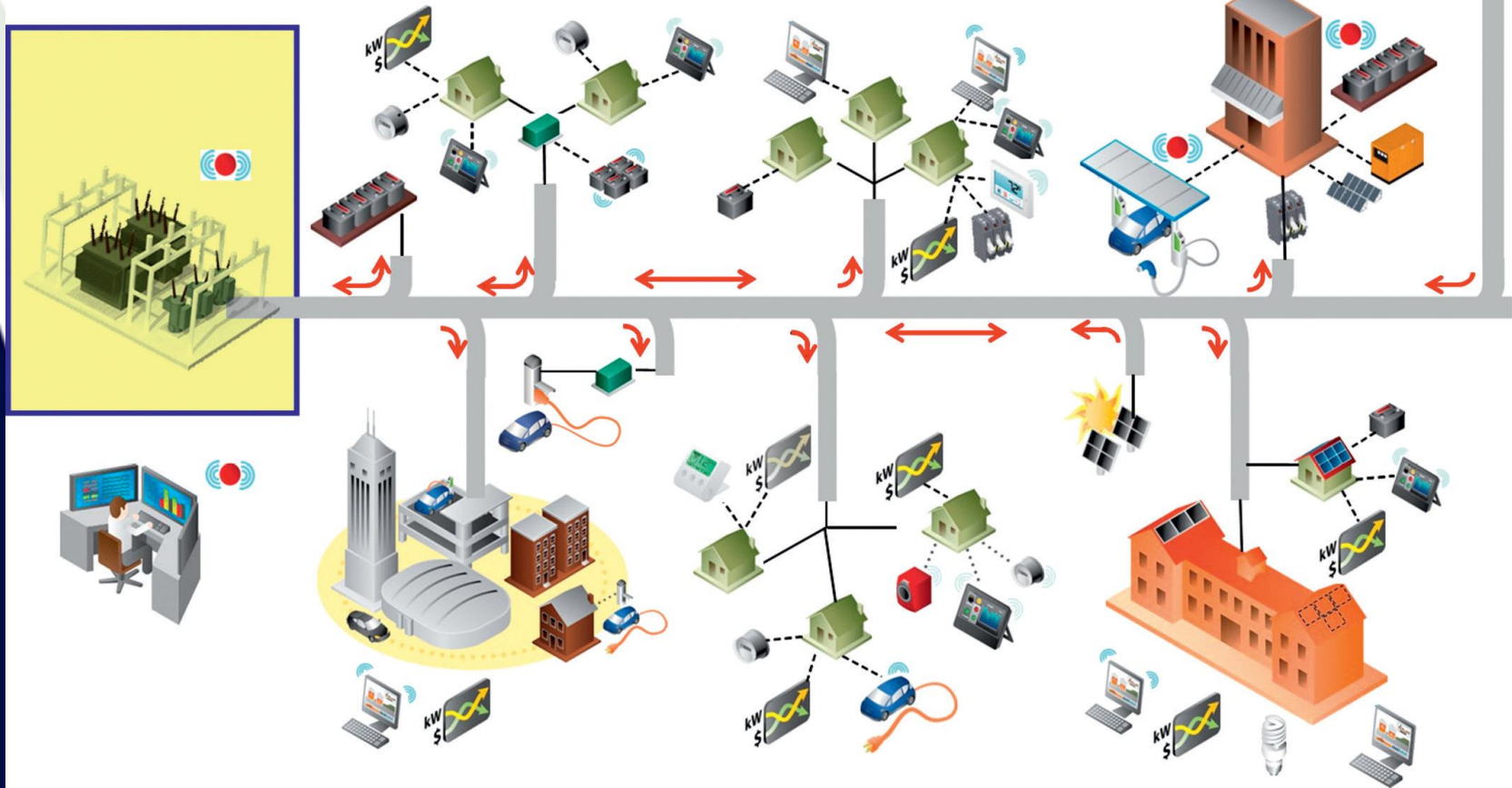
- High Quality of Service
- Energy Efficiency to Homes
- Growth for Businesses
- Supporting your Local Community

LOCAL DSOs WORKING
CLOSER TO THE CUSTOMER

From Distribution Networks..



..to Smart Distribution Systems!



Drivers for change



1. **New ways of generating** electricity and information technology changes the way of doing business in the electricity sector.
 - *Renewables*
 - *micro-generation*
 - *EVs,*
2. Smart grids calls for **new forms of distributed monitoring and control** and large scale information management.
3. **New services emerge**; real time pricing, home services, building management, demand response



Smart Distribution Systems



1. Everything is connected to everything
2. Customer preference / needs are driving investments trends
3. Technology and business model innovations are **enabling customer to participate in energy markets**
4. **Direct customer participations** holds the potential to alter planning practices and market design.



The Energy Union & Local DSOs in Actions (I)



Overall Goal: Secure, sustainable, competitive, affordable energy for every European citizen!

How do **Energy Distributors** help building the Energy Union?

- ✓ Connecting more than 90% of Renewables to the Distribution Grids!
- ✓ Leading the way in developing Smart Grids – DSOs as main investors!
 - 200 Mio Smart Meters by 2020!



ENERGY UNION

The Energy Union & Local DSOs in Actions (II)



How do Energy Distributors help building the Energy Union (II)?

- ✓ Local System Operator
 - ✓ Grid services to balance supply and demand, ensuring grid stability!
 - ✓ Flexibility
 - ✓ Building synergies between electricity, gas and heat
- ✓ Local Market Facilitator!
 - Demand Response – Empowering the Customer!



ENERGY UNION

THE DECADE OF THE DSOs

FROM DISTRIBUTION NETWORKS TO SMART DISTRIBUTION SYSTEMS



DSOs are ready to evolve..



But can't do so without:

- ***Full implementation*** of the Third Energy Package
- ***Clear roles*** and responsibilities for all actors
- ***A tool box for DSOs*** for efficient grid management in a changing energy landscape
- ***Coherent, transparent, stable and cost-reflective*** European & national ***regulatory framework*** to invest and innovate in smart distribution systems

Thank You!



The Voice of local Energy
Distributors across Europe

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