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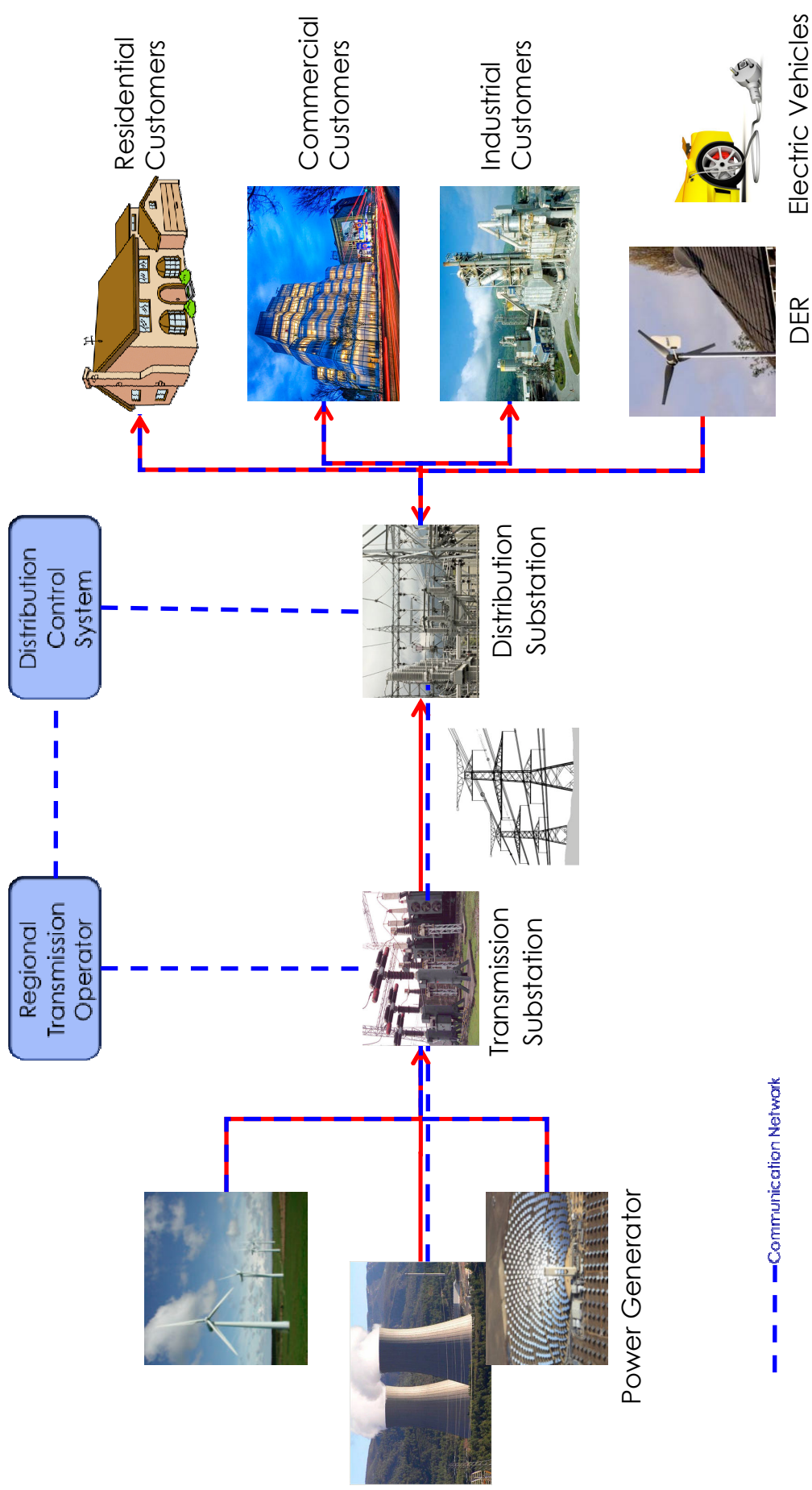
# Energy Demand Side Management Use case in Smart Energy Grid Area

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# Smart Energy Grid



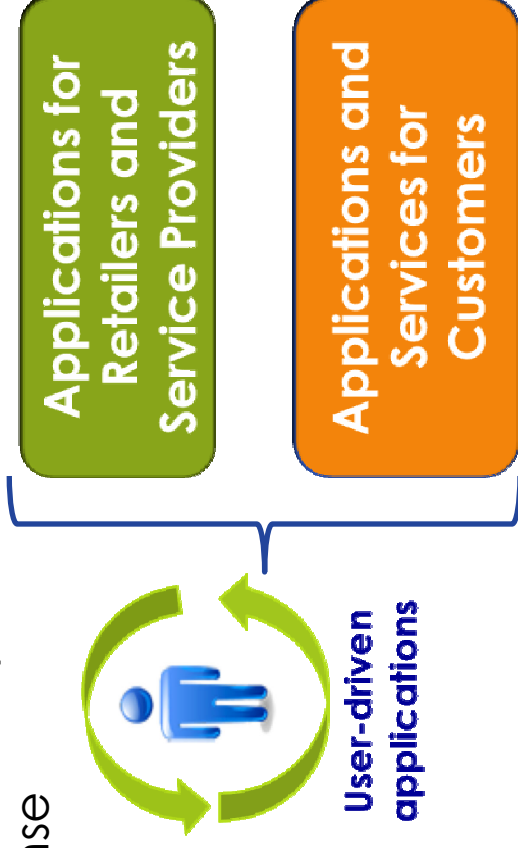
# Energy Demand Side Management

## Why?

- ❑ Dynamic adjustment of energy supply and demand
- ❑ To ensure energy security
- ❑ To encourage more energy efficiency behavior
- ❑ To take the most of exceed energy supply from renewable resources

## Measures to increase energy efficiency on demand-side:

- ❑ Automated Demand Response
- ❑ Balancing services
- ❑ Dynamic pricing
- ❑ Buy/sell power in real time



# Energy Demand Side Management

## Future Internet Technologies for DSM Use Case:

- **Distributed Intelligence System** ⇨ more intelligent control nodes, more flexibility
  - Self-organising components
  - Self-healing components
- **Bidirectional communications** between customers and service providers
- **Handling of big amount data in real time:**
  - Knowledge extraction from data.
  - Creation of forecasting models.
  - Processing methods
- **Large scale Event Processing in Real Time**

Thank you!

Future Internet  
Usage Areas Workshop  
Smart Energy Grid

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