



Benefit of Smart Grid in the Future Energy System

Energy Decarbonisation and Flexibility Needs

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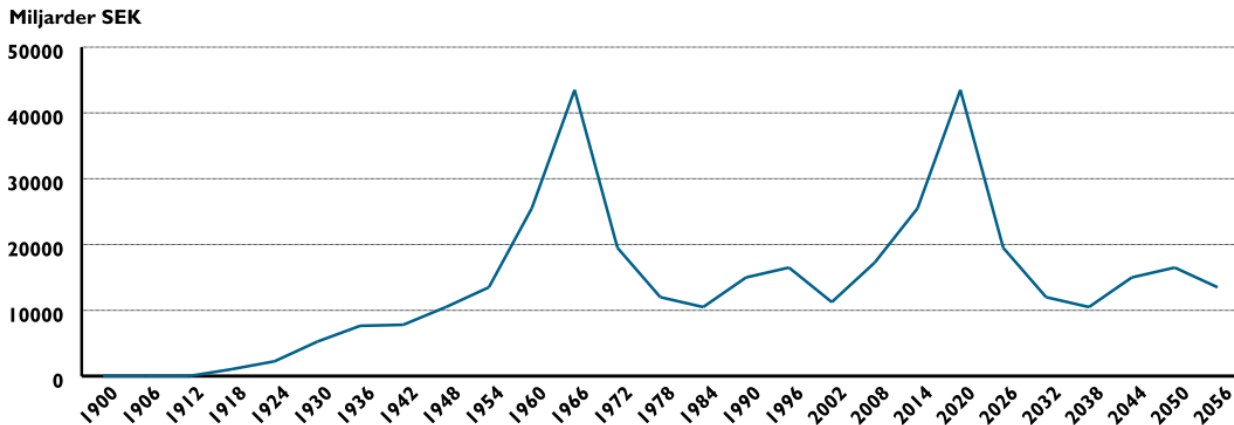
- **Governmental initiative**
- **Steering Committee chaired by State Secretary for Energy, Nils Vikmång**
- **Plattform for dialogue and co-operation on smart grid**
- **Enhance development of smart grid in Sweden and globally**





Investment Cycle of an European Grid

Figur 9: Typisk investeringscykel på elnät i Europa (Nilsson, 2015)





Security of Supply

- **The energy security package**
 - global energy transition
 - possible energy supply interruptions.
- **“Heating and cooling strategy”**
 - make the heating and cooling “smarter”
 - smart metering, real-time control etc. and employing more renewables.
- **Energy efficiency, resilient energy supply,**



Key Benefits of Smart Grids

- **Automated – allowing new technologies**
- **Open – more transparent**
- **Increased safety and reliability due to increased knowledge of the actors in the system**



Benefits of Smart Grid

- **For operators**
- **For consumers**
- **Creating new business opportunities**
- **Economical benefits**
- **Social Benefits**
- **Environmental Benefits**

INTERNATIONAL CO-OPERATION ON POLICIES AND STANDARDS





Key issues

- **Bussiness models**
- **Market design**
- **Digitalisation in the energy sector**
- **Storage**
- **International co-operation**
- **Integrate development of new technologies and development of policies, incentives and regulation**