

Long term scenarios for the Swedish Energy System

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Long term scenarios?



What are the Energy Agency's scenarios?



Why do we do them?



What scenarios have we focused on this year?

Trends and driving forces that influence the energy system

- Current situation on global energy markets
- International driving forces and conditions
- Increasing electricity use
- New technologies and new energy carriers
- Increased digitalization
- Uncertainties around bioenergy
- Climate change

The main conclusions from scenarios

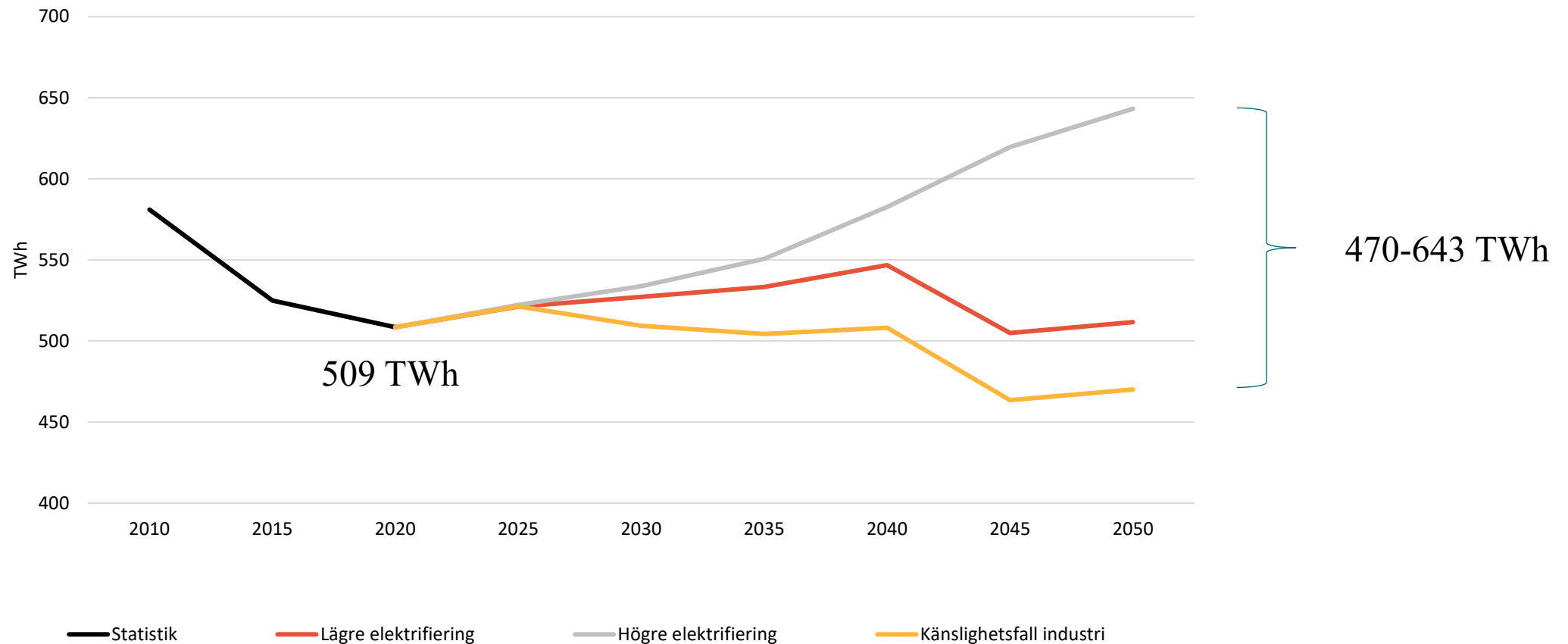
Major changes in the energy system regardless of scenario

There is a sharp increase in electricity demand even in short term

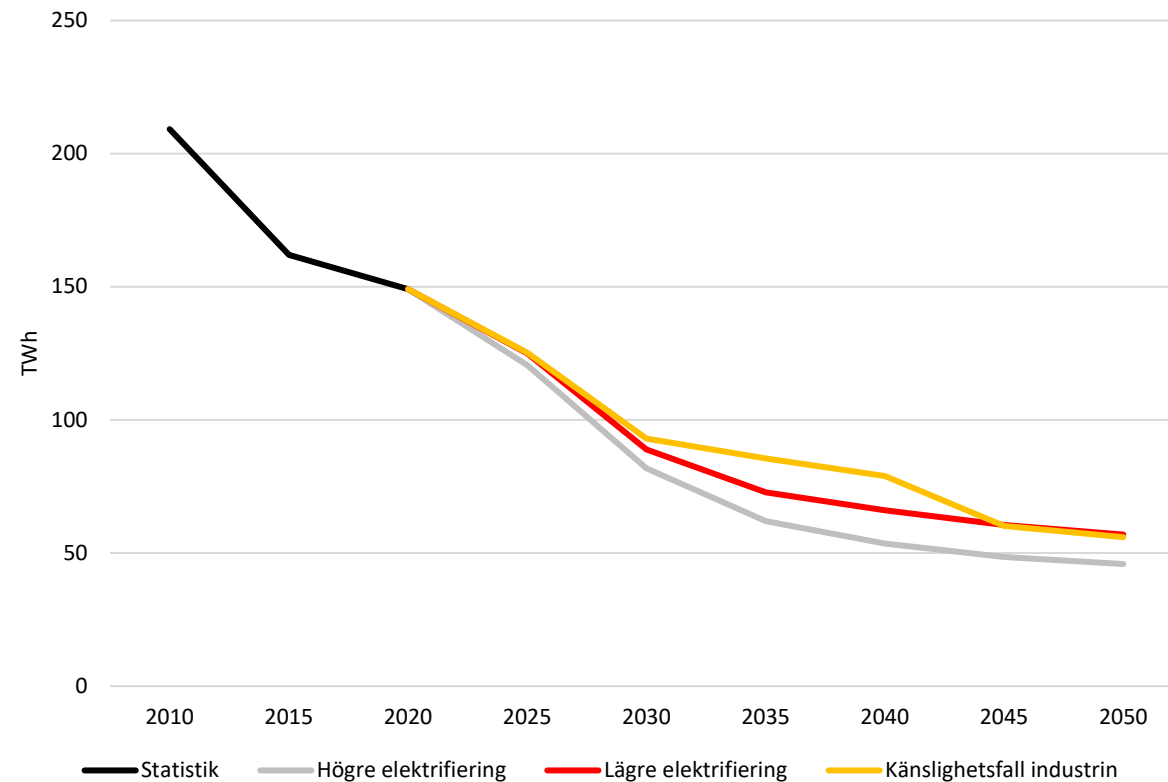
For a higher degree of electrification, all fossil-free forms of energy are needed

The industry is the driving force towards increased electricity and energy use

Major changes in the energy system regardless of scenario



The amount of fossil fuels is reduced in all scenarios



The agriculture and forestry industries

- Small changes, slight decrease of energy use
- Mainly because of electrification of machines
- Biofuels are also important
- Great potential for both electricity and biofuels

Some final reflections...

- We have an energy system that is changing rapidly, and society needs to act now
- Society is becoming more electrified, but future development depends on the global context
- Bioenergy continues to be a crucial part of the energy system



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