

# Fuel Use Forecast 2012-2050

## Results and Methodology

---

Ágústa Loftsdóttir

National Energy Authority

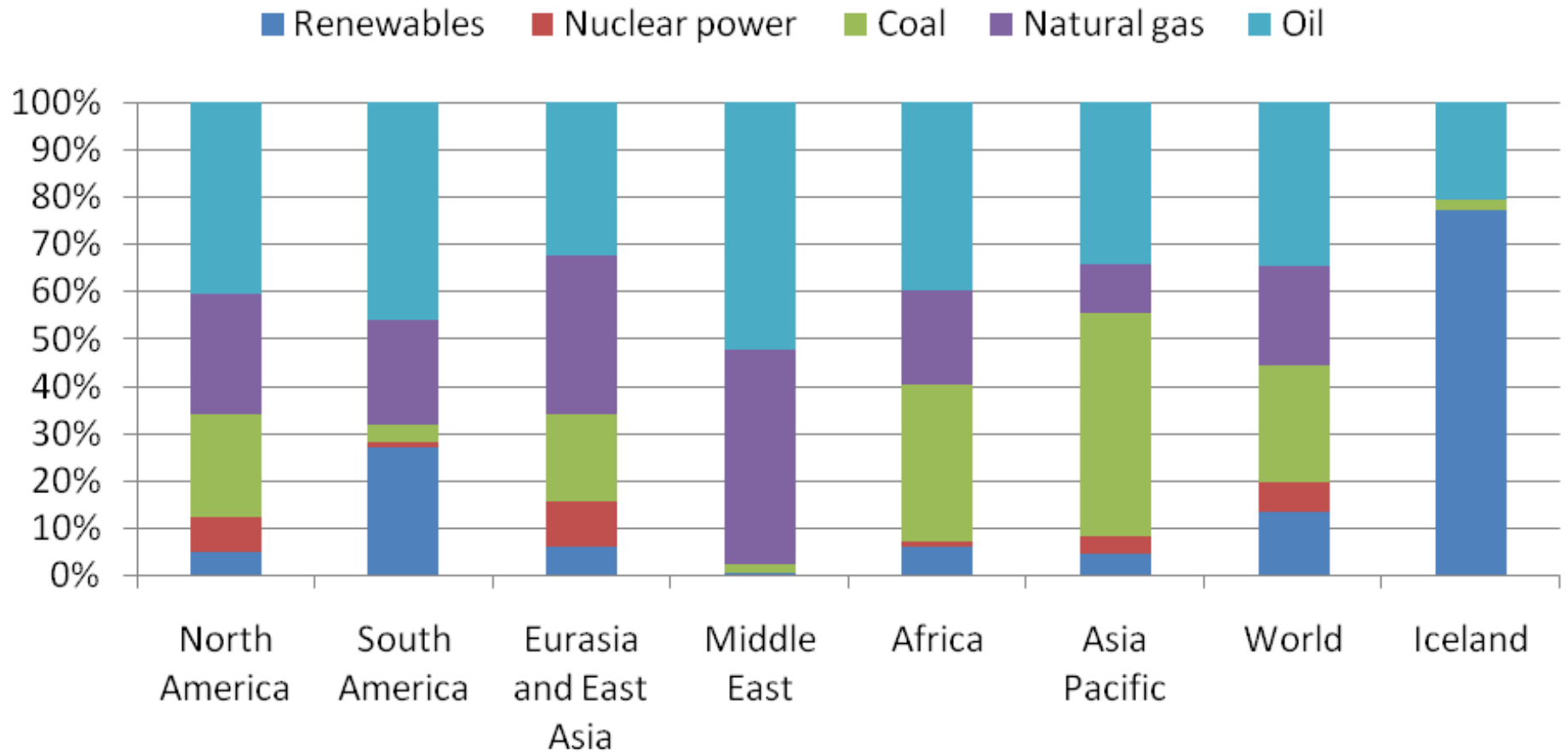


# Overview

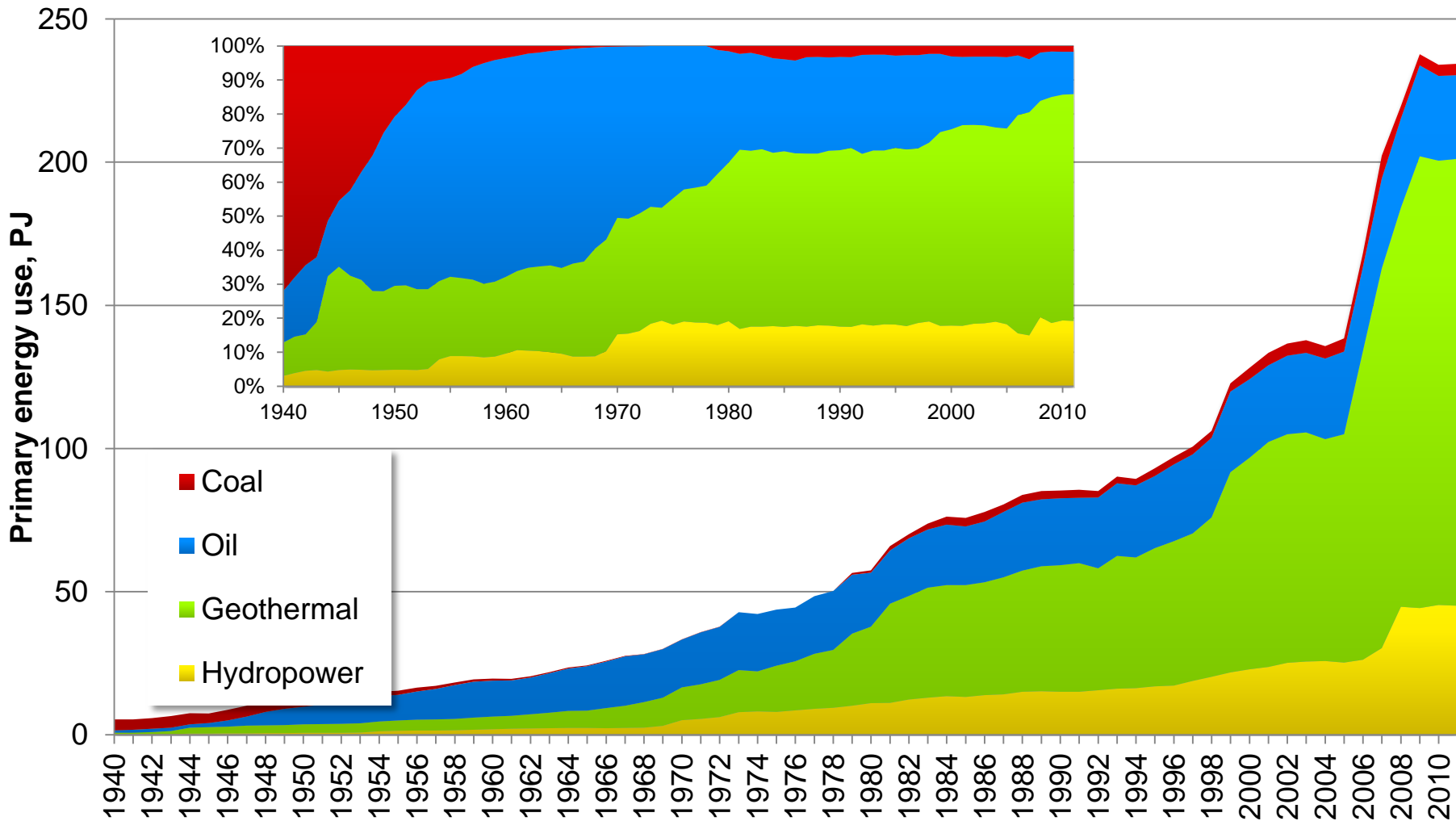
---

- Energy in Iceland
- Oil and fuel use in Iceland
- Fuel use forecast 2012-2050
- Alternative fuels forecast

# World Primary Energy Use

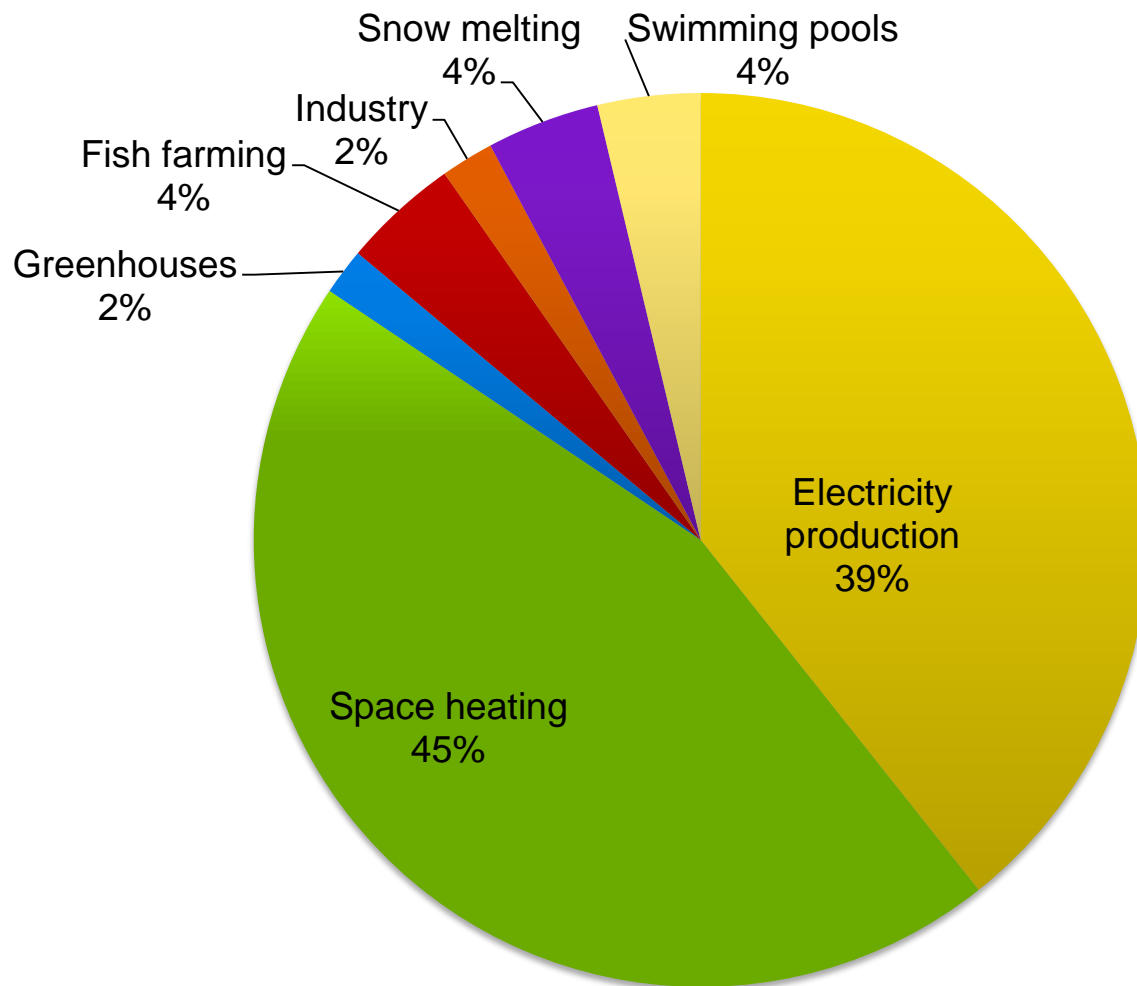


# Primary Energy Use 1940-2011



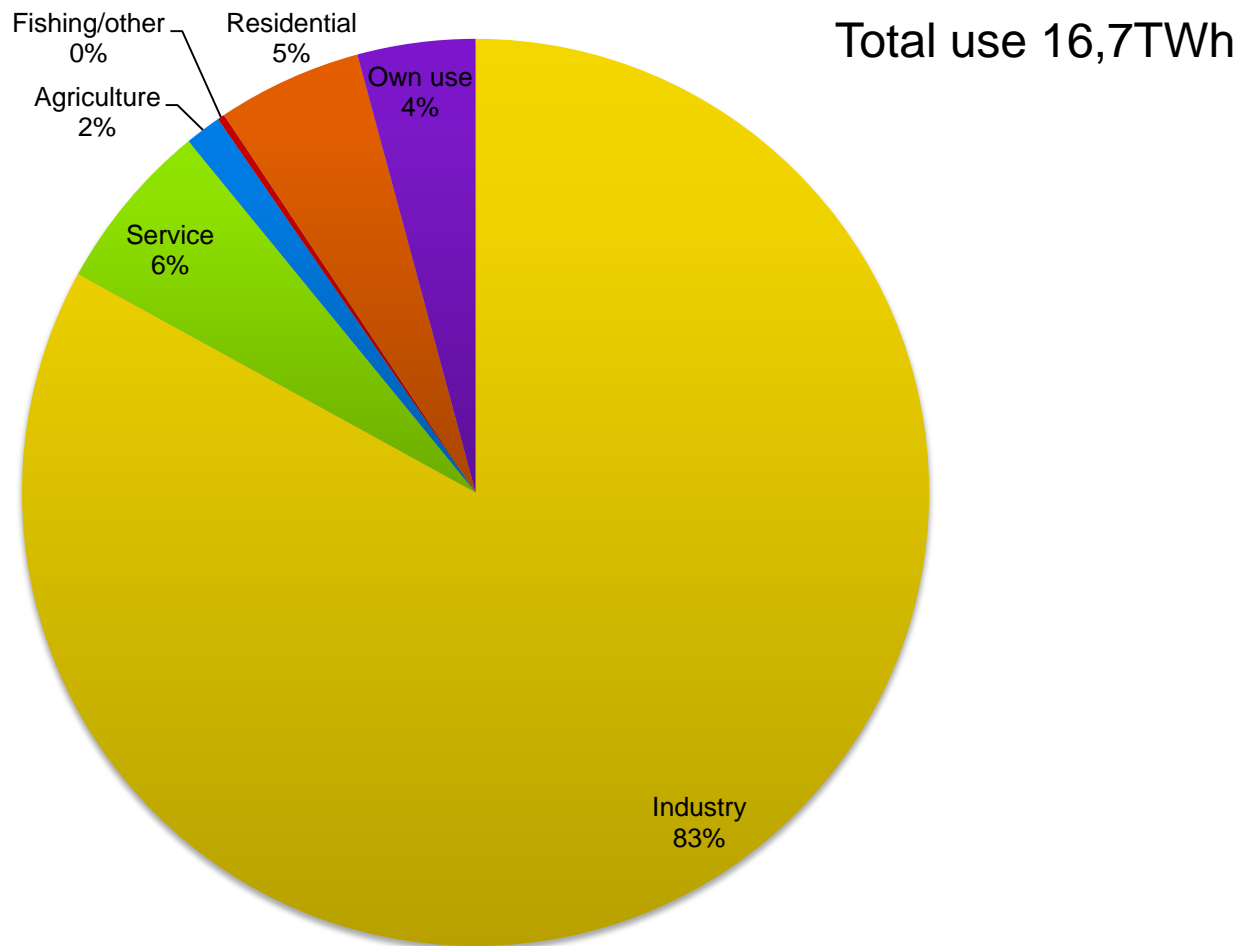
# Geothermal Energy Use

---



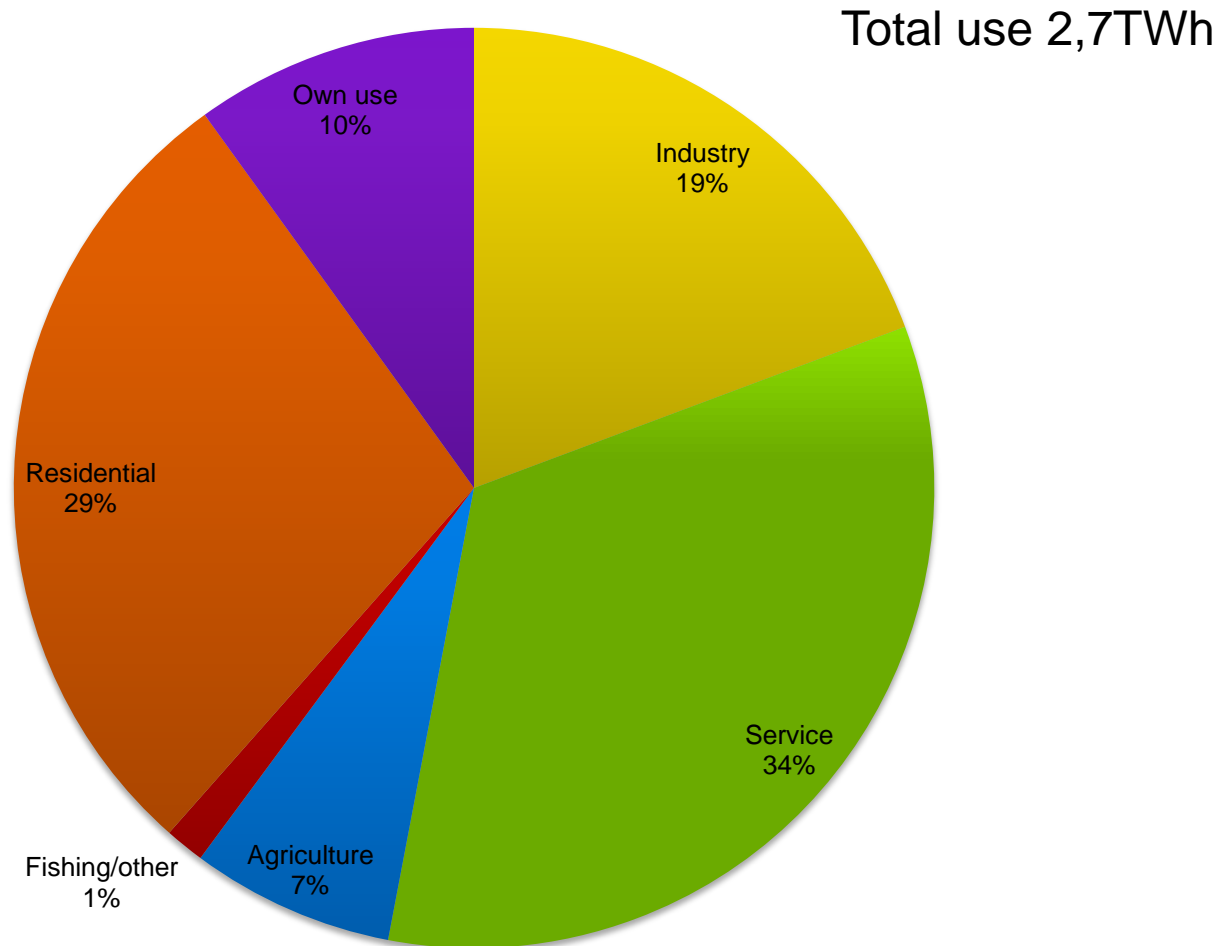
# Total Electricity Sales 2011

---

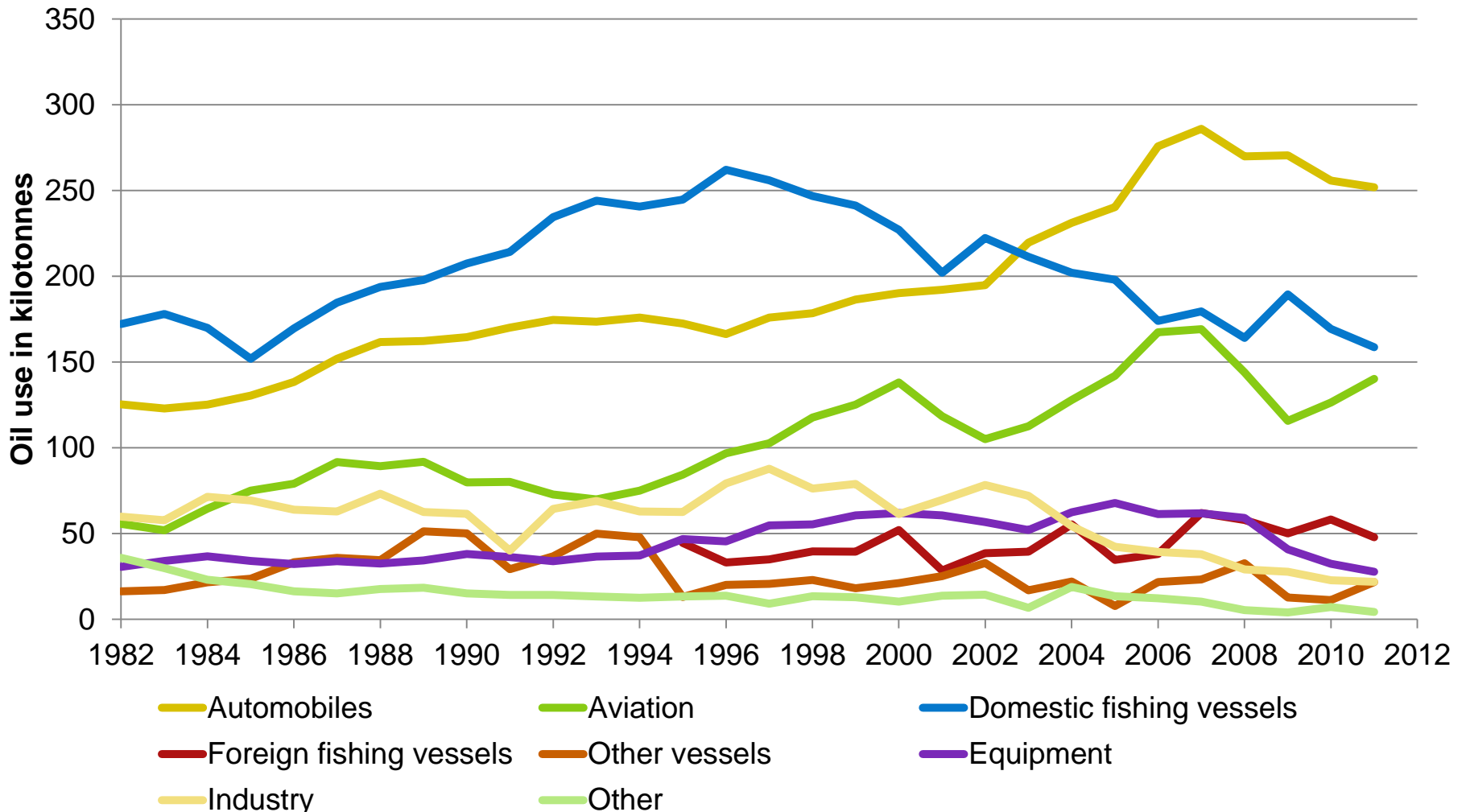


# Electricity From the Grid 2011

---



# Oil Use by Sector 1982-2011





# Fuel Use Forecast

---

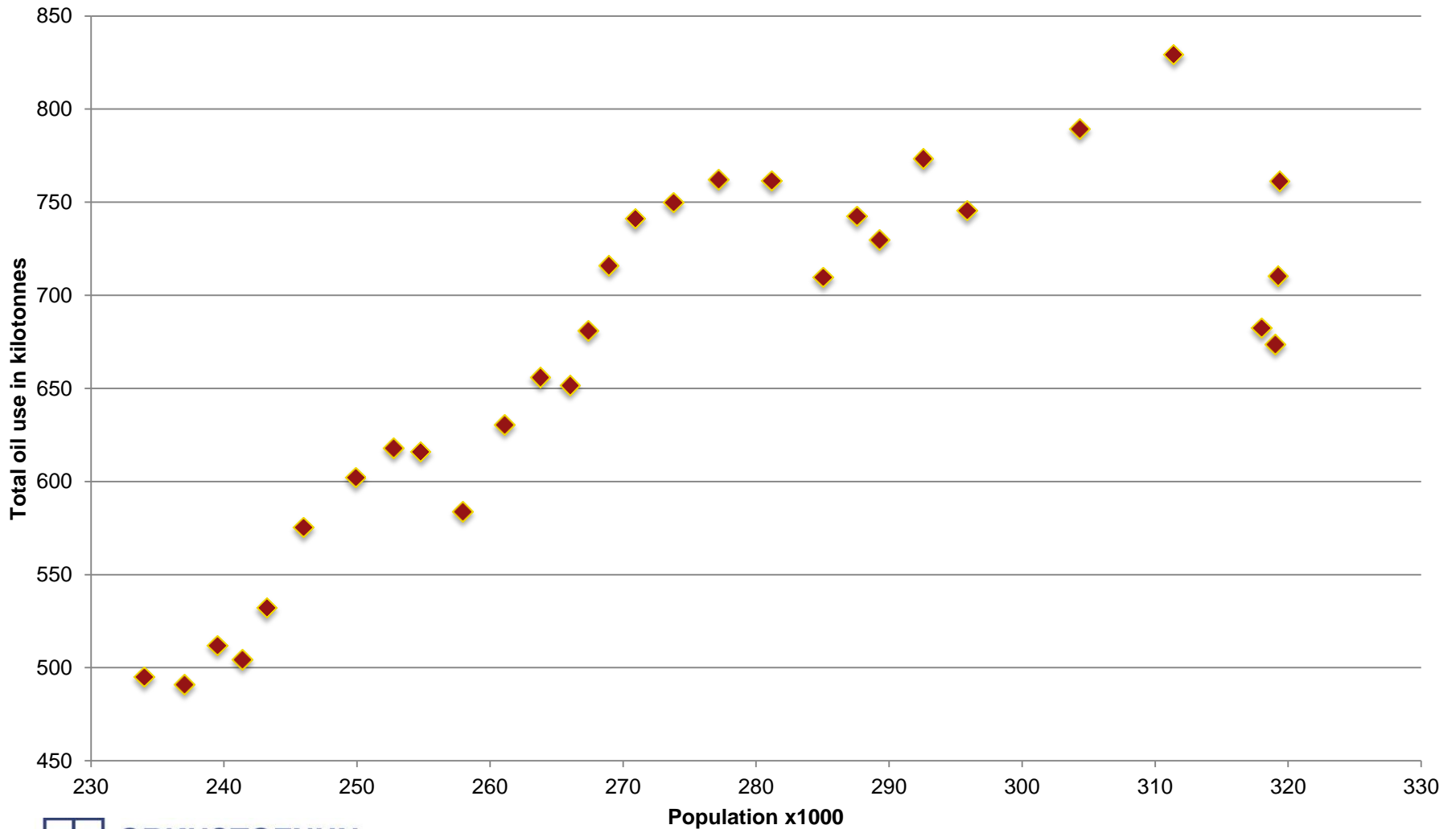
- Is made in collaboration with the Environment Agency, the oil companies and Efla consulting engineers
  - Also experts on various sectors
- Is published every 5-7 years
  - Goal is to publish every 2-3 years
- Is based on a numerical model which is updated regularly
  - Current forecast is based on 2008 forecast

# Fuel Use Forecast

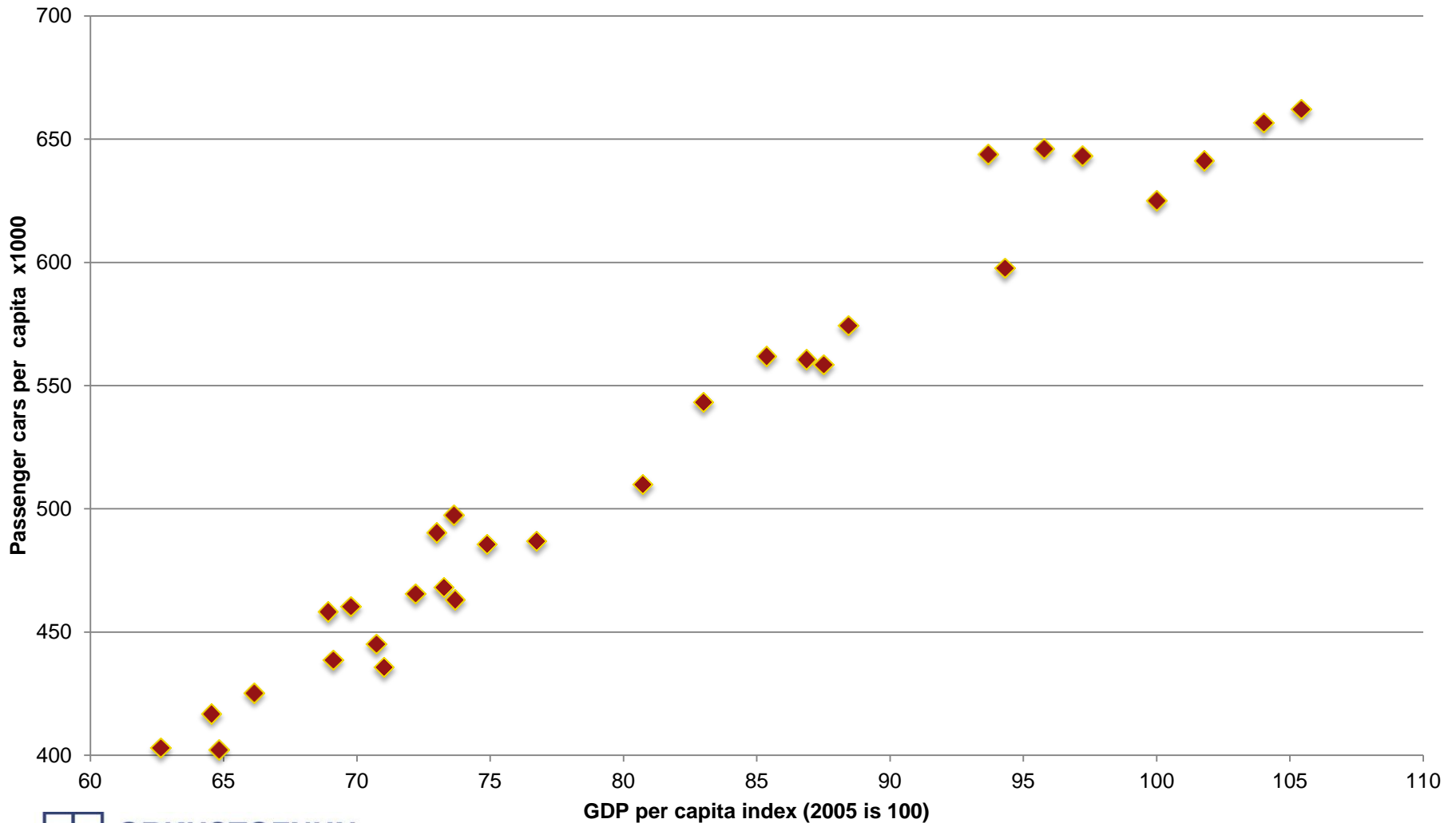
---

- Business as usual
  - High and Low scenarios
- Main input variables
  - Population
  - Economic growth
  - Fuel price
  - Industry
  - Transport

# Total Oil Use vs Population



# Passenger Cars vs GDP Index



# Fuel Use Forecast

---

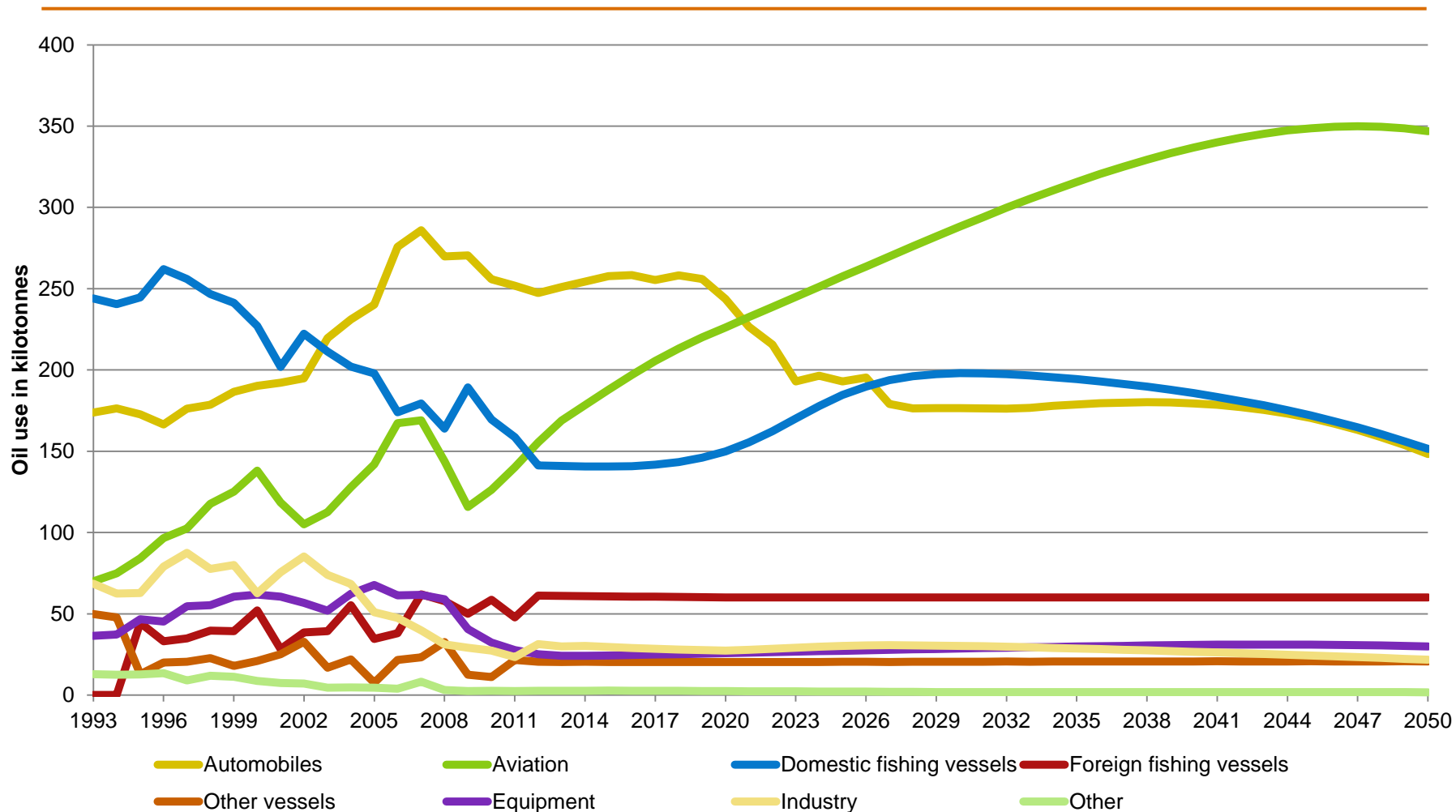
- Main output
  - Forecast until 2050
    - Oil use per fuel type and sector
    - Gas use
    - Coal use
    - Other energy which replaces fossil fuels
  - Analysis of trends of input variables
  - Overview of historical data

# Fuel Use Forecast Projections

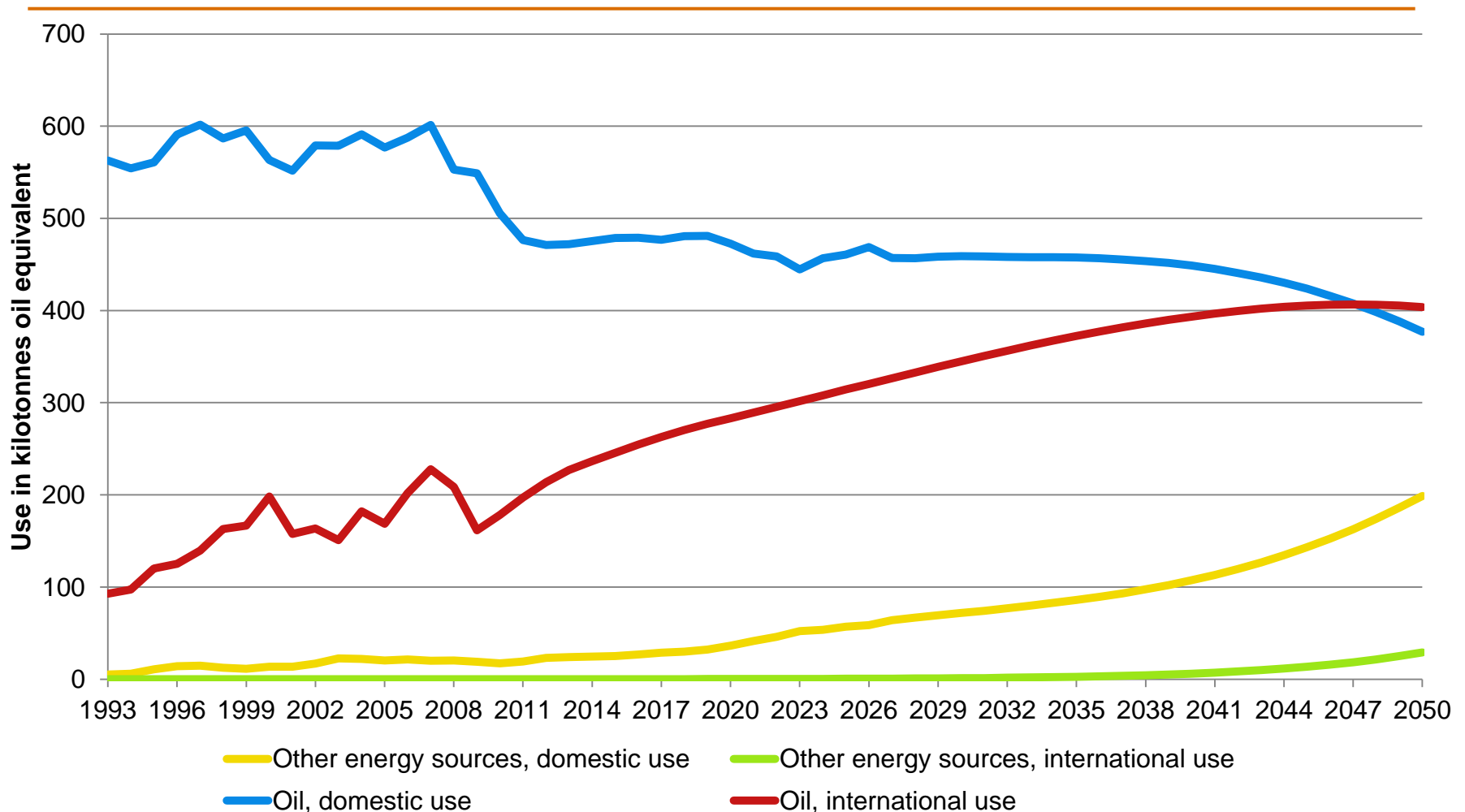
---

- Projections are made by
  - Analysis of historical data
  - Analysis of trends and influences
  - Forecasts of main input variables
  - Expert evaluation
  - Mathematical modelling based on available data such as price elasticity etc.

# Fuel Use Forecast 2012-2050

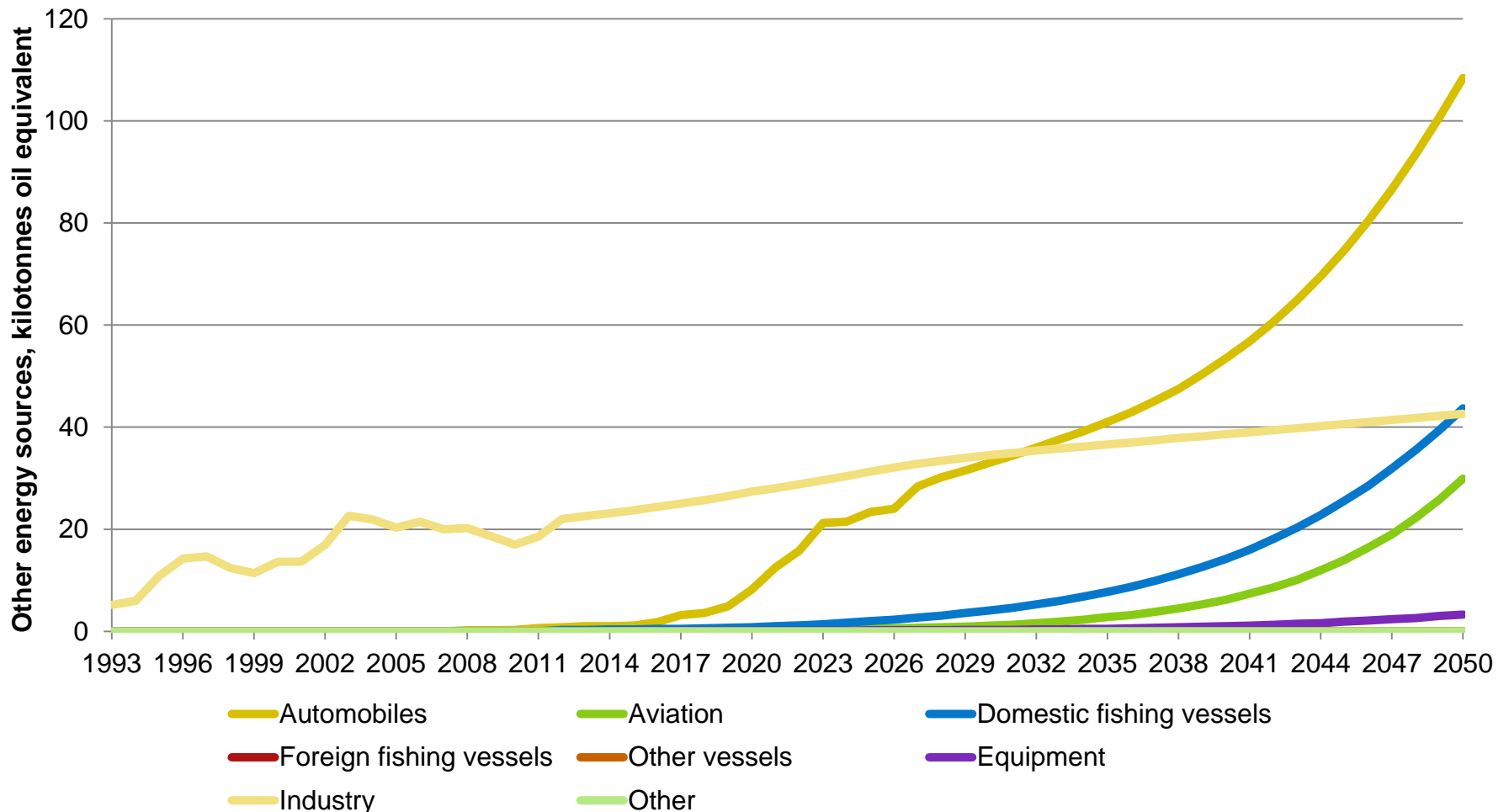


# Fuel Use Forecast 2012-2050

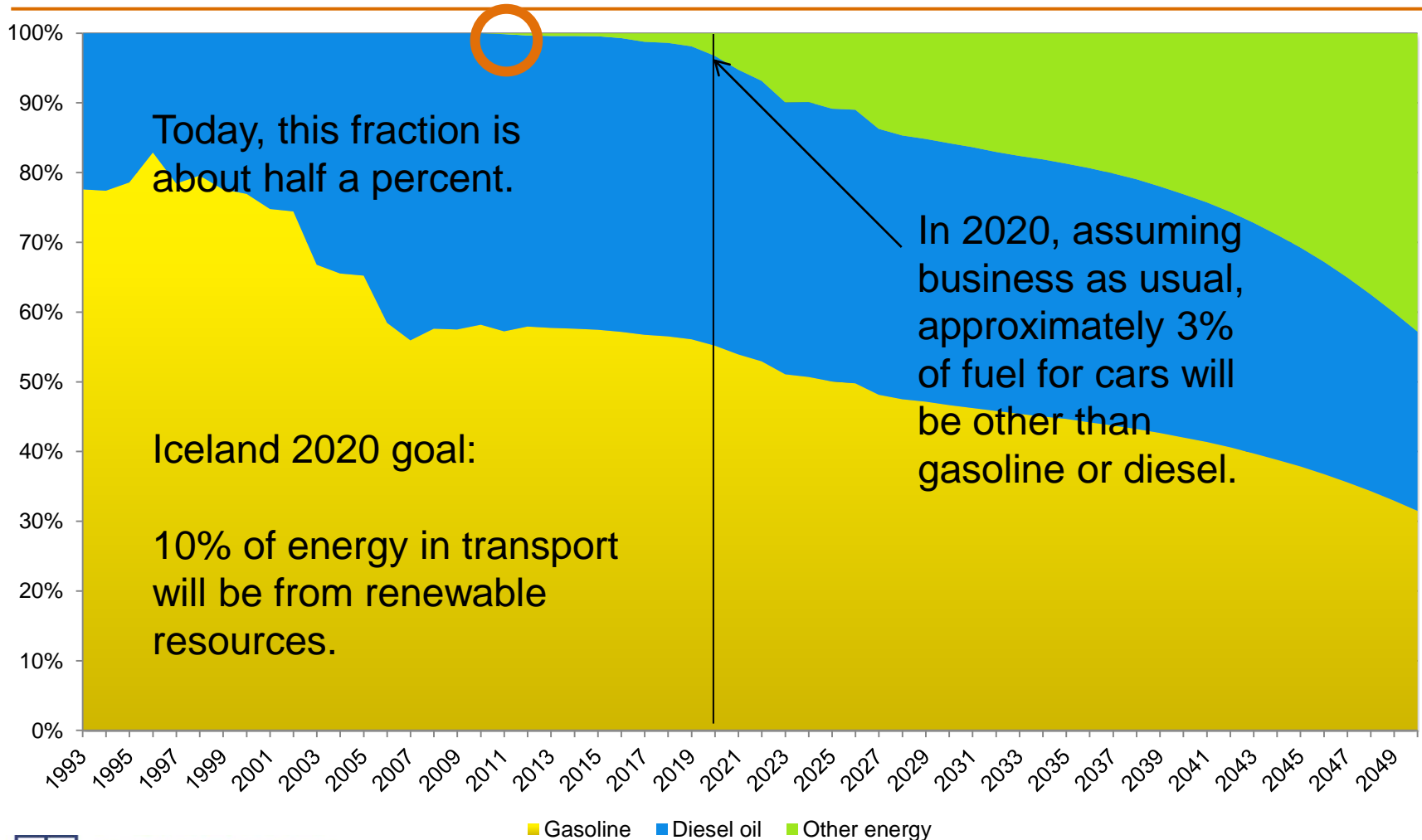




# Other Energy Sources Forecast



# Fuel for Cars, Forecast



# Thank You!

---

Ágústa Loftsdóttir  
Project manager for fuels and renewable energy  
National Energy Authority  
Borgum Norðurslóð  
600 Akureyri

email: [asl@os.is](mailto:asl@os.is)

