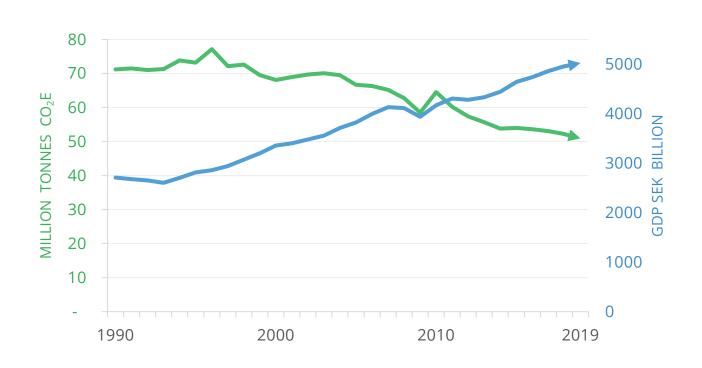
Sweden – on the road to become fossil free

Population: 10.2 Million (2019)

Territorial emissions: 50.9 Mt CO₂e (2019)

Consumtion based emissons per capita: 8.1 Mt CO₂e (2018)



Target:
Net zero emissions
2045

Total final energy consumption 2019, 369TWh

■ Industry 142TWh ■ Transports 83TWh ■ Dwellings, services etc 144TWh

Net electricity production 2019, 166TWh

■ Hydro power 65TWh

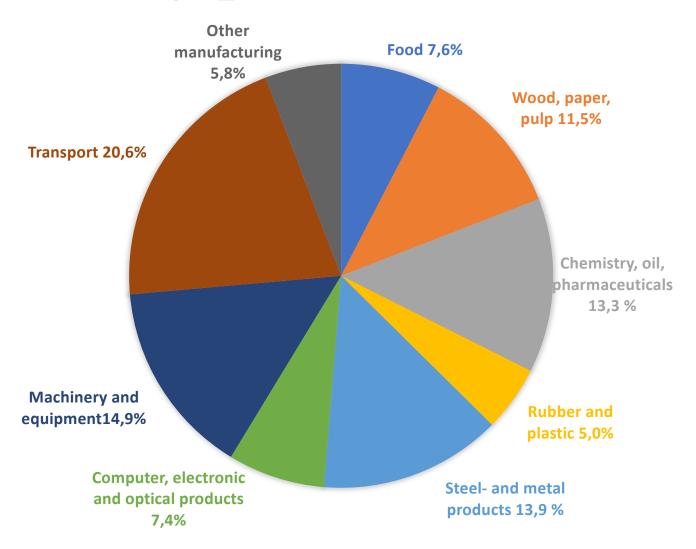
■ Wind power 20TWh

■ Solar power 1TWh

- Nuclear power 64TWh
- Combined heat and power plants 16 TWh

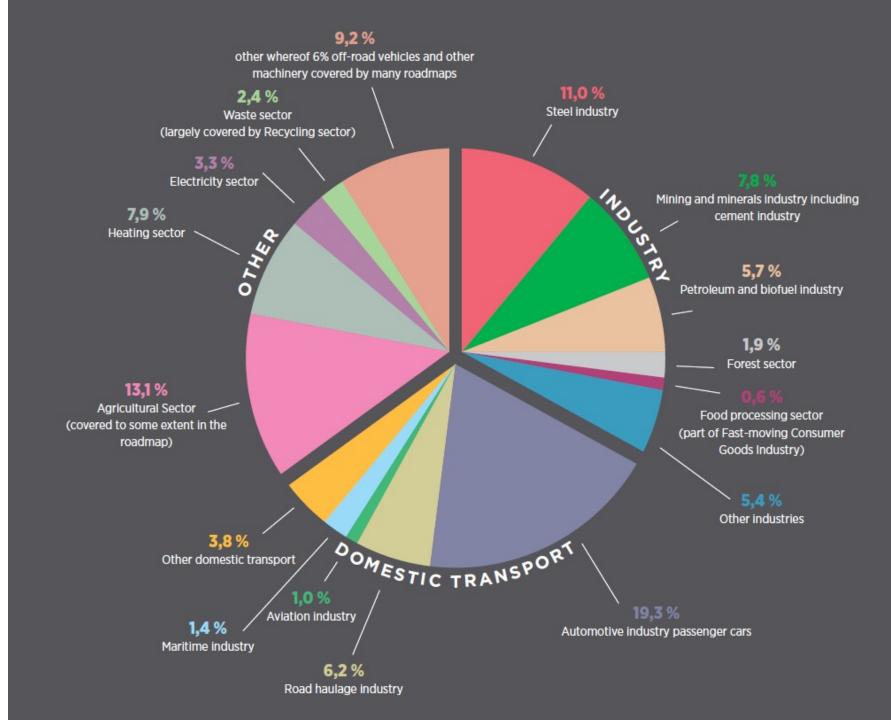
Electricity Use per Capita 2020: 16 478 kWh

Industry production mix in Sweden



Swedish territorial greenhouse gas emissions 2018 by sector

The roadmaps cover ~70%



So far...

- ✓ In 1991 Sweden introduced first carbon tax in the world
- **✓** Use of oil-fired boilers declined dramatically
- **✓** Coal- and oil-fired plants phased out
- **✓** Extension of district heating
- **✓** Public procurement of heat pumps
- **✓** Increased use of biofuels in industry
- ✓ More efficient vehicles and biofuels in the transport sector

Steel industry	Maritime industry	Fast-moving consumer goods industry	Recycling sector	Digitalisation consultancy industry	Cement industry
Petroleum and biofuel industry	Gas sector	Food retail sector	Heavy road haulage	Concrete industry	Agricultural sector
Forest sector	Aggregates industry	Construction and civil engineering sector	Electricity sector	Aviation industry	Ski resort sector
Mining and minerals industry	Automotive industry Heavy transport	Heating sector	Automotive industry Passenger cars	22 Roadmaps for fossil free competitiveness	

Steel industry Fossil free steel 2045 **Petroleum and** biofuel industry **Climate neutral** 2045 **Forest sector** Bioeconomy on the rise

Mining and minerals industry **Fossil free**

2045

2035

mining

Maritime industry

Fossil free domestic shipping

2045

Fast-moving consumer goods industry

> **Fossil free** value chain

> > 2045

Recycling sector

Net zero greenhouse gas emissions

2040

Digitalisation consultancy industry

> Halve energy use

> > 2030

Cement industry

Climate neutral cement is here

2030

Gas sector

Fossil free energy gases

2045

Food retail sector

No new oil in plastic packaging

2030

Heavy road haulage

Trucks cut CO₂ emissions by 70%

2030

Concrete industry

Climate neutral concrete on the market

2030

Agricultural sector

Fossil free

2030

Aggregates industry

Halve emissions

2030

Construction and civil engineering sector

> Halve emissions

> > 2030

Electricity sector

Fossil free

2030

Aviation industry

Domestic flights go fossil free

2030

Ski resort sector

Fossil free ski resorts

2027

Automotive industry Heavy transport

50% electric trucks

2030

Heating sector

Fossil free

2030

Automotive industry Passenger cars

80% rechargeable cars

2030

22 Roadmaps for fossil free competitiveness