



Fossil Free Sweden

Industry decarbonization

Roadmaps for fossil free competitiveness

Issue: Climate challenges covered by previous speakers

Part 1: Fossil Free Sweden – an institutional innovation

Part 2: Industry climate solutions

Swedish climate targets

2045:

Zero net emissions of greenhouse gases.

2030:

Emissions from domestic transport (excl aviation) reduced by at least 70% (cf. 2010).

Plus:

- Climate law
- Swedish Climate Policy Council



Part 1

Fossil Free Sweden – an institutional innovation

Background

- Initiated by the government 2015 prior to the COP21 in Paris
- Aiming to speed up climate action in Swedish industry

Role:

- Intermediary between industry and government
- Policy development
- Industry movements

Nations Unies

Conférence sur les Changements Climatiques 2015

COP21/CMP11

Paris France



Arnaud Bouissou - MEDDE / SG COP21

Driving forces



13 roadmaps for fossil free competitiveness



Steel industry



Mining and mineral industry



Cement industry



Concrete industry



Construction industry



Road haulage industry



Aviation industry



Food retail sector



Forest sector



Heating sector



Shipping sector



Aggregates industry



Digitalisation consultancy

Roadmaps for fossil free competitiveness

Visions:

- ✓ Maintained or increased competitiveness for Swedish industry
- ✓ Climate neutrality in 2045

Content requirements:

- ✓ Industry actions
- ✓ Enabling policy

Key-drivers: competitiveness and communication

- Meet customers' preferences today and in the future
- Attracting and retaining fresh talent
- Building awareness of the sector's contribution to society
- Influence politicians
- Rising knowledge in the sector



Process: bottom-up and industry-led

- Totally industry led
- Focus on process and gathering the sector
- Focus on industry action and enabling policy
- Well anchored in the sector
- Communication internally and externally



Part 2

13 roadmaps for fossil free competitiveness



Steel industry



Mining and mineral industry



Cement industry



Concrete industry



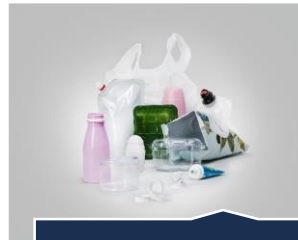
Construction industry



Road haulage industry



Aviation industry



Food retail sector



Forest sector



Heating sector



Shipping sector



Aggregates industry



Digitalisation consultancy



Electrification and hydrogen makes steel fossil free



Capturing CO₂ makes cement climate neutral



Reflections

- Swedish target 2045 from parliament was never questioned
- A mind shift has happened – competitiveness is a motive
- The real work starts now – implementation and policy

Common challenges

1. Supply of biomass
2. Carbon capture and storage
3. Permit processes
4. Public procurement
5. Financing of big investments and technology leaps

Will you need to suffer from a fossil free industry?



Summary

- 13 different Swedish industry sectors are taking the lead in climate action
- Competitiveness is a strong motive
- A bottom-up process leads to ownership
- Institutional innovations and new public-private partnership are needed to speed up climate action



Fossil Free Sweden

Thank you!

www.fossilfritt-sverige.se

malin.strand@gov.se

@FossilfrittSE / @StrandMalin



SWEDISH GOVERNMENT
INQUIRIES