



Fossil Free Sweden

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Nations Unies

Conférence sur les Changements Climatiques 2015

COP21/CMP11

Paris France



Arnaud Bouissou - MEDDE / SG COP21



4000 actors

Climate targets

2045:

By 2045, Sweden is to have zero net emissions of greenhouse gases into the atmosphere and should thereafter achieve negative emissions.

2030:

By 2030, emissions from domestic transport, excluding domestic aviation, will be reduced by at least 70 per cent compared with 2010.

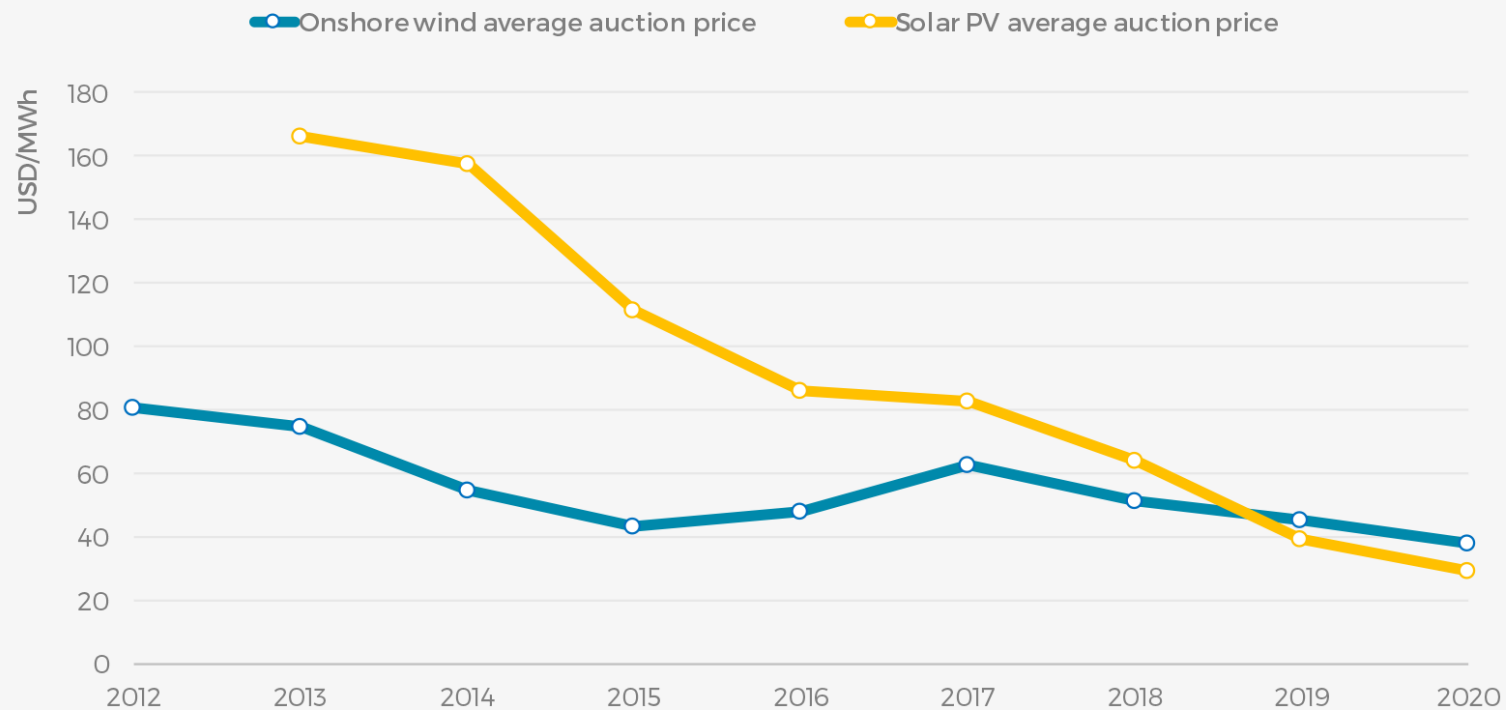
Plus:

- Climate law
- Swedish Climate Policy Council



Renewable energy gets cheaper

Announced wind & solar PV average auction prices by commissioning date
Renewables 2017



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

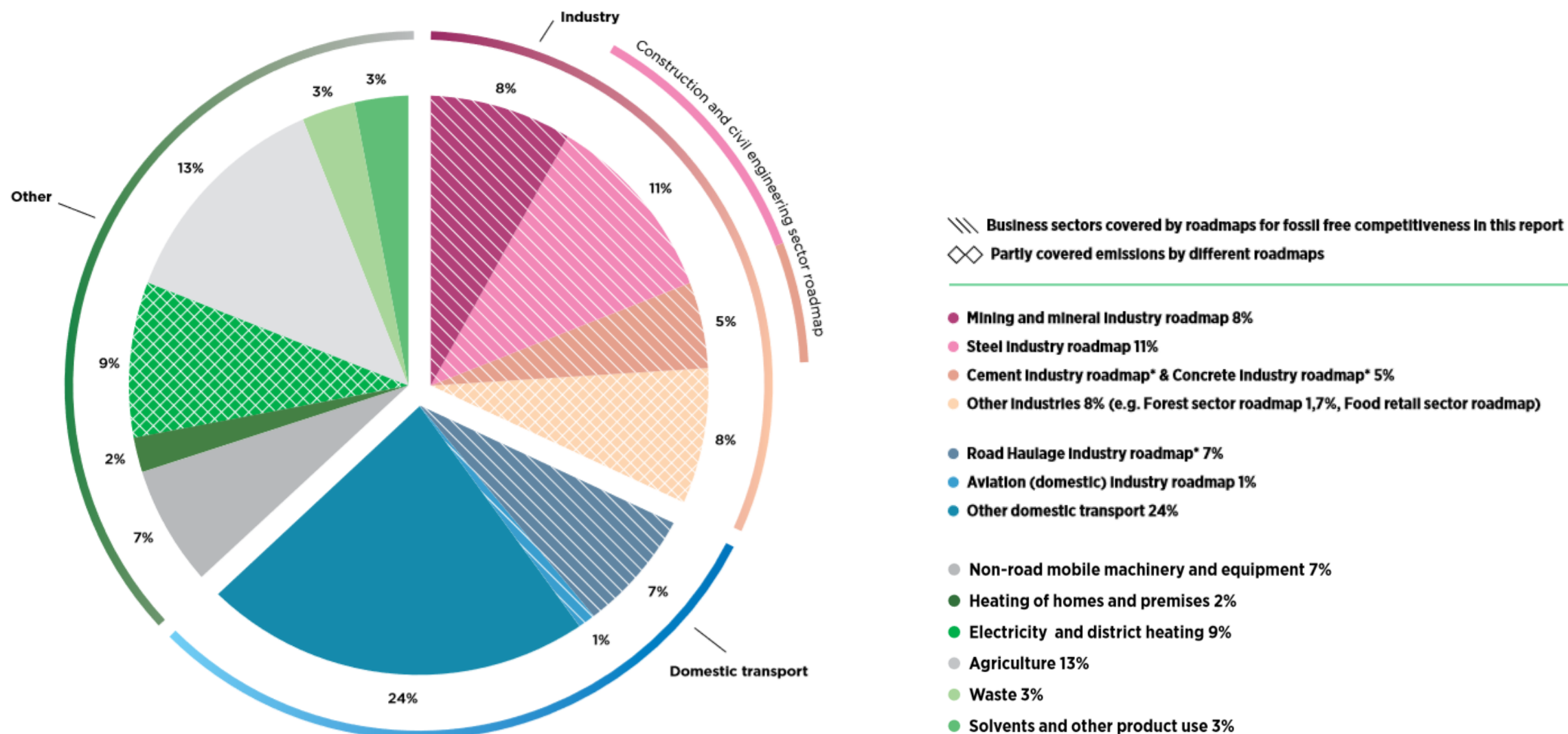


Digitalisation consultancy

Submitted to the Government



~40% of the emissions in Sweden



Source: Swedish Environmental Protection Agency, 2017 (*the sector's own calculation)

Roadmaps for fossil free competitiveness

Visions:

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



Aim

- Tell the sector's own story of why the sector is needed now and in a fossil free future, and how they will reach a fossil free sector with increased competitiveness.
- Prove to policy makers, customers and the public that employment and profitability can increase in the sector at the same time as the emissions decreases.
- Show up a proactive attitude towards the climate challenge.

Content template



Past and current situation

1. **Introduction** of the sector.
2. **Current situation** in the sector (employment, profitability, climate).
3. **Trends and drivers** that will impact the sector until 2045. Possible development and technology leaps.



Competitiveness

4. **Vision** for where the sector wishes to be in 2045.
5. **Competitive advantages** and market development
6. **Risk and sensitive** analysis. Quantifying the future demand for electricity and biomass.



Way forward

7. **Obstacle analysis** and the sector's own **commitments** and **policy proposals**.
8. Financing and new business models needed.
9. Implementation plan.



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

Mining and steel roadmaps



Construction roadmaps



Transport roadmaps



Other enabling roadmaps

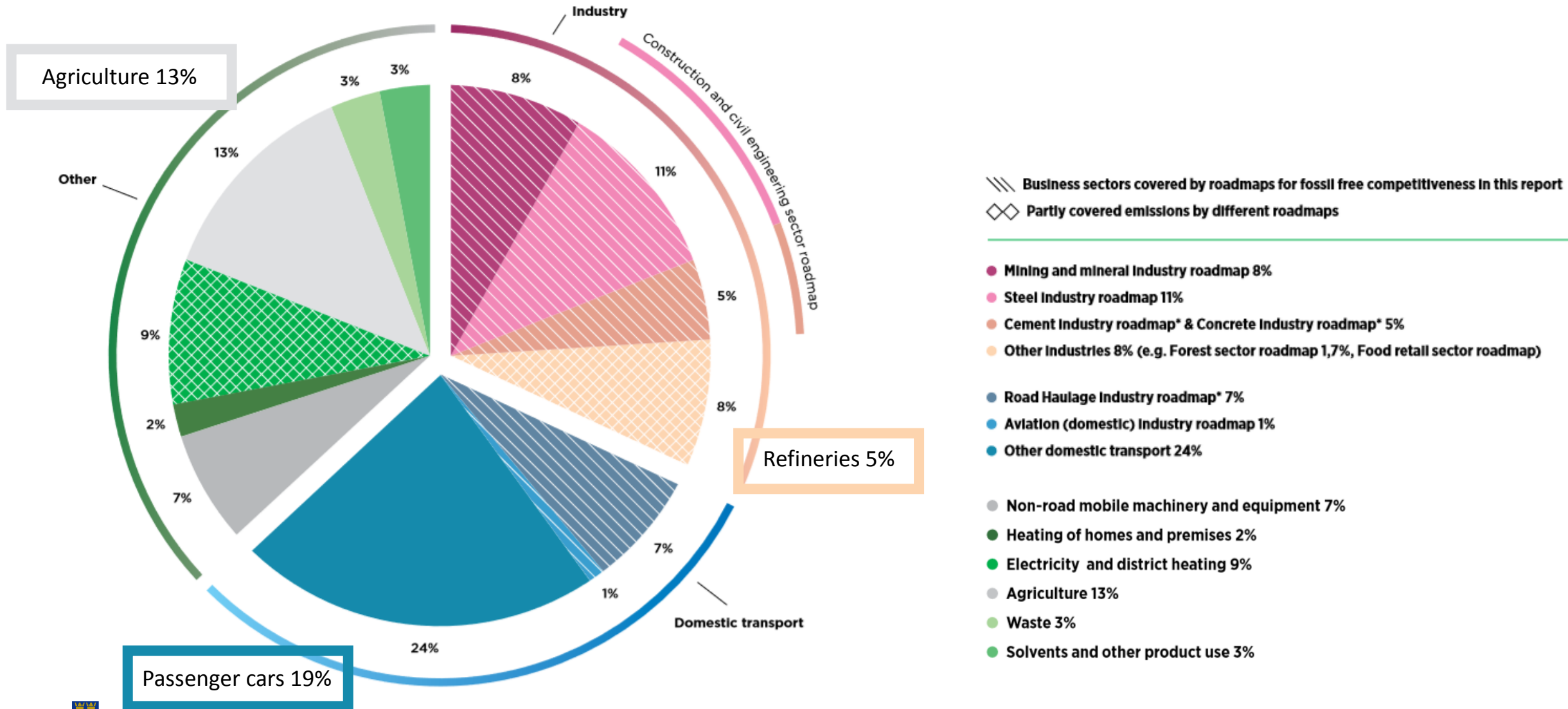


Common challenges

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



More emissions to cover...



Source: Swedish Environmental Protection Agency, 2017 (*the sector's own calculation)



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Thank you!

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SWEDISH GOVERNMENT
INQUIRIES