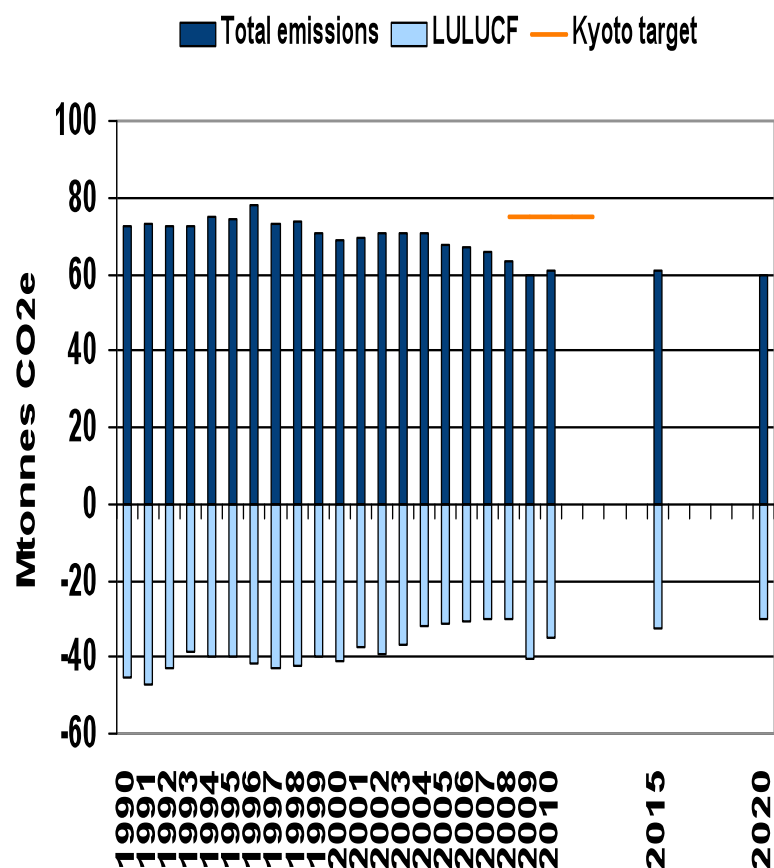


The Swedish Low Carbon Path



Ministry of Environment

GHG emissions in Sweden - a good track record so far



- Emissions reduced by -10 % between 1990 -2010 (prel.)
- Sweden on track towards the -40% target for non- ETS sectors in 2020

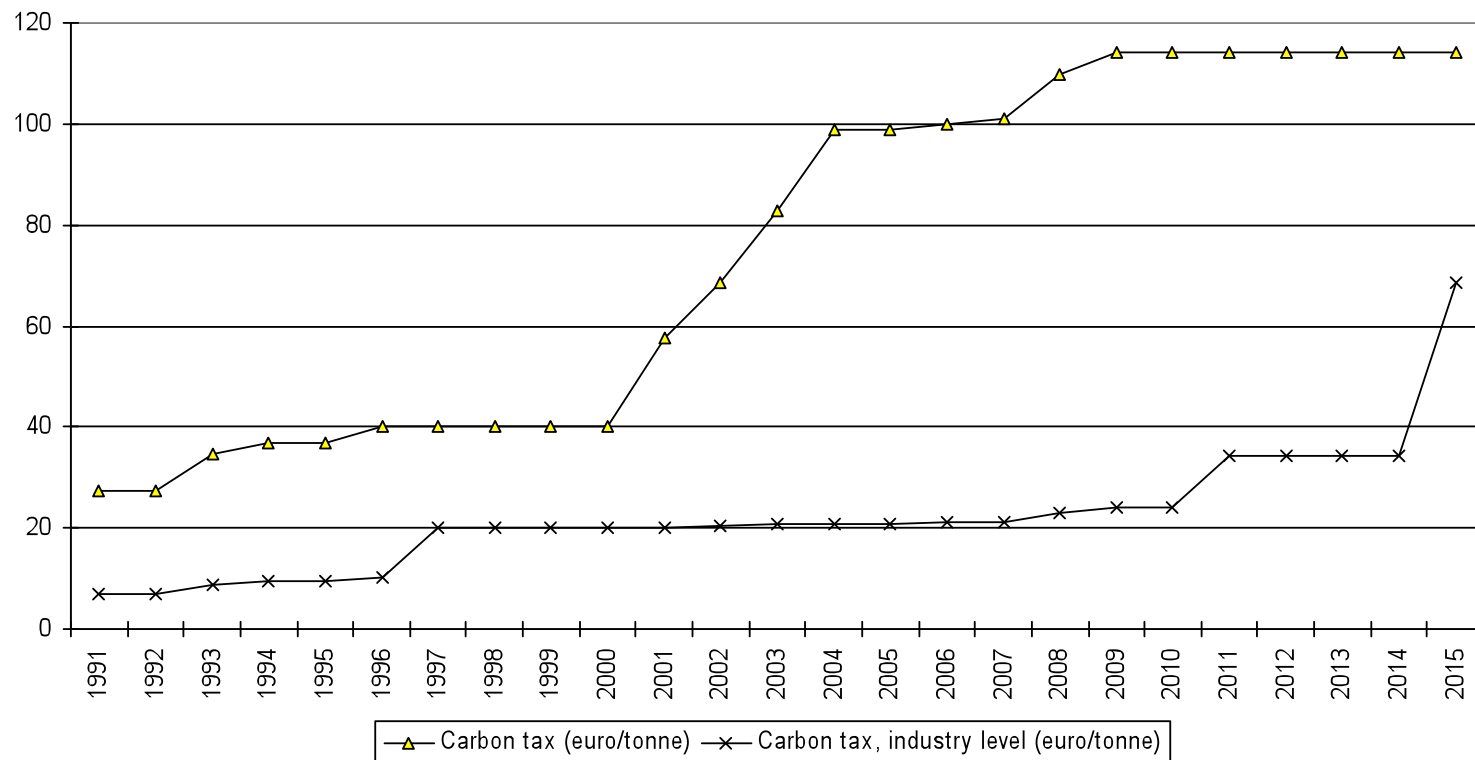
Swedish climate policy- History of use of economic instruments



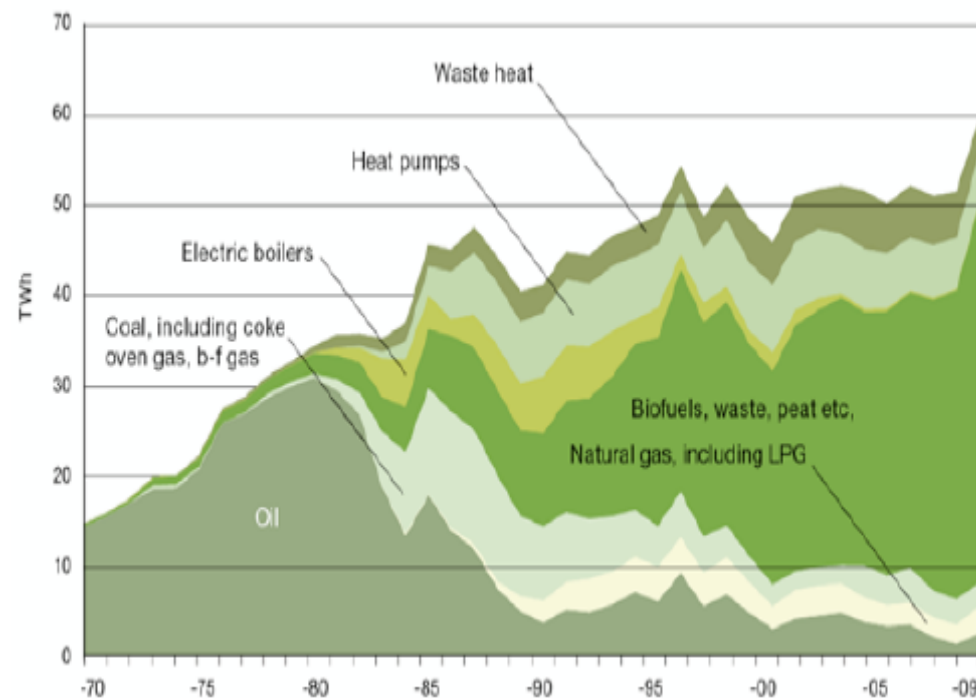
- **1991:**
 - CO₂ taxation introduced. Two levels, lower for industry
 - Pilot joint implementation programme
- **2008:**
 - Second period of EU ETS is introduced
 - *EU ETS industry:* A reduced CO₂ tax level is introduced, zero CO₂ tax in 2011
 - *Non EU ETS industry:* CO₂ tax level is raised, additional raises in 2011 and in 2015
 - Increased government programme for CDM and other mechs

Development of the Swedish CO₂tax general level and industry level

from 2008 industry outside EU Emissions Trading Scheme (EU ETS)



Energy supply for district heating in Sweden, 1970-2009



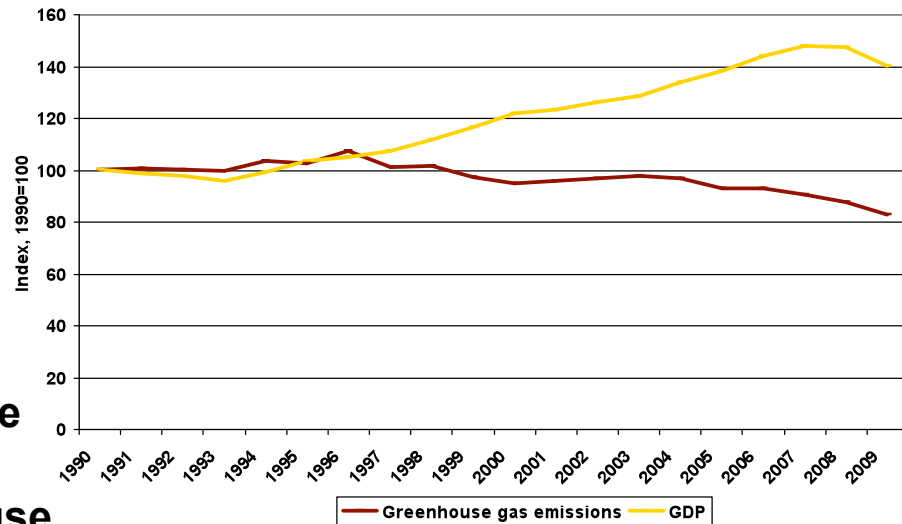
Decoupling - Short term objectives (2020) and long term vision (2050)

Presently:

Decoupling of GHG emissions and economic growth

Objectives for year 2020

- **50 per cent renewable energy**
- **10 per cent renewable energy in the transport sector**
- **20 per cent more efficient energy use**
- **40 per cent reduction in greenhouse gas emissions (outside EUETS)**



Vision for year 2030: **Fossil-independent car fleet**

Long term vision

- **By 2050, Sweden will have a sustainable and resource-efficient energy supply and no net emissions of greenhouse gases in the atmosphere.**

Swedish Road Map 2050

- **Tasking the Swedish Environmental Protection Agency with mapping scenarios and providing policy instrument proposals;**
- **Reference group: environmental organisations, business, research community among others;**
- **Dialogue and collaboration - regions and municipalities, business sector and research community**

Tasks

- **Objective: no net emissions of GHG for Sweden 2050**
- **Produce sectorial 2050 baseline scenarios with existing policies and measures**
- **Suggest additional cost effective policy measures**
- **Produce normative sectorial scenarios consistent with the no net emissions objective**

Timeline

- **EPA to report to government by January 2012 on sectors**
- **and submit complete final report by September 2012**
- **The comprehensive final plan to be developed by government**
- **Government Climate Checkpoint by 2015**
- **Read more www.sweden.gov.se**