



Examples of Swedish solutions for high-ambition NDCs

The following sections offer an overview of Swedish solutions in *transport, industry, energy, agriculture and food systems, and waste management*, showcasing sector-specific solutions that can align with other countries' transition plans. On the Sharing Sweden website, your countries can find more details about the specific sectors: [Sweden – The Climate Matchmaker](#).

Transport

Sweden's transport sector is driven by innovation and collaboration, connecting local, regional and global partners to accelerate commercially viable electrification solutions to meet climate goals.

Sweden is a global leader in electric vehicle technology for land, water and air transport. The range of solutions offered by Swedish companies include:

- electric vehicles (EVs) and infrastructure;
- advanced battery systems;
- scalable charging infrastructure;
- renewable fuels and electrification systems;
- biofuels and renewable-powered public transport models and freight systems;
- energy-efficient vehicles and systems;
- integrated urban mobility plans;
- strategies for public transport, cycling and pedestrian-friendly infrastructure;
- decarbonisation of shipping;
- energy-efficient innovations, waste heat recovery and fuel-saving systems; and

- policy and regulatory support to promote EVs, remove fossil fuel reliance and subsidies, foster cleaner and more affordable transport systems and significantly reduce emissions.

Industry and advanced manufacturing

Swedish industry is revolutionising how products are manufactured, distributed, reused and recycled with collaboration, sustainability and digitalisation, advancing green transition solutions.

Sweden is a global leader in resource-efficient and circular manufacturing, industrial processes and breakthrough solutions for decarbonising heavy industries. The range of solutions offered by Swedish companies include:

- fossil-fuel-free steel production;
- circular economy practices and waste reduction in manufacturing;
- carbon capture and storage (CCS and bio-CCS);
- energy-efficient industrial processes;
- waste heat recovery and industrial heat pumps;
- low-emission construction materials and sustainable cement; and
- policy frameworks, strategic industry roadmaps and regulatory support for implementing resource-efficient and circular manufacturing processes, as well as best practices for decarbonising supply chains and transforming materials.

Energy

Sweden's reliable and sustainable energy systems are powered by commercially leading, scalable, renewable and resource-efficient technologies, and circular grids enabling robust green value chains, all of which further accelerate the green transition. The range of solutions offered by Swedish companies include:

- wind, solar, hydro and nuclear power technology and services;
- ocean energy solutions, tidal stream and predictable wave power;
- energy storage and balancing systems;
- grid modernisation, interconnectors and integration of renewables;
- heat pumps, heat exchangers and waste heat recovery systems for decarbonised heating and cooling systems;

- energy efficiency technologies; and
- policy, strategic industry roadmaps and regulatory support for renewable, predictable, efficient, affordable and stable energy systems, as well as circular, efficient and resilient grid infrastructure.

Agriculture and Food Systems

Sweden's food and agricultural sector excels in innovation and collaboration, connecting partners globally to advance resilient and just food systems that deliver economic, environmental and social value along the chain. The range of solutions offered by Swedish companies include:

- regenerative farming practices;
- precision agriculture optimising water and nutrient use;
- end-to-end advanced industrial solutions for food manufacturers that reduce energy, water, food losses and chemical use;
- sustainable new food sources tackling the protein deficit, including plant-based, fermentation-derived and other food innovations;
- biodegradable and recyclable solutions;
- food technology, sustainable processing and packaging solutions to bridge the 'hidden middle' between farm gate and consumer, tackle food loss and waste, and ensure food security;
- water-efficient irrigation systems;
- wastewater treatment plants being replaced by resource treatment plants generating renewable energy, nutrients and water for agricultural use; and
- policy, strategic industry roadmaps and regulatory support for agricultural resilience, regenerative farming, sustainable food systems, responsible value chains and food security to bring back planetary stability.

Waste Management

Sweden has a long history of groundbreaking waste management and recycling systems, as well as circular business models. The ecosystem of solutions offered by Swedish companies include:

- waste-to-energy systems converting non-recyclable waste into electricity and heat;
- circular business models and strategic city planning;

- efficient waste management systems;
- resource recovery and recycling infrastructure;
- organic waste recycling, transforming waste into biogas and renewable energy;
- plastic waste reduction and biodegradable alternatives;
- e-waste recycling; and
- policy, strategic roadmaps and regulatory support for a circular economy, material recovery, resource efficiency, reduced urban emissions and environmental impact, landfill minimisation and renewable energy generation.

How can you engage with Sweden?

Business Sweden is once again hosting the [Swedish pavilion at COP29](#). We cordially invite countries to visit the pavilion, where we are presenting comprehensive, sector-specific solutions that can accelerate climate action in countries. [Sweden at COP29 – Pioneering Partners](#)

Matching climate challenges with solutions

Swedish companies are driving investments and implementation in their own value chains but are also able to provide solutions for implementation in key sectors around the globe, including local and regional value chains.

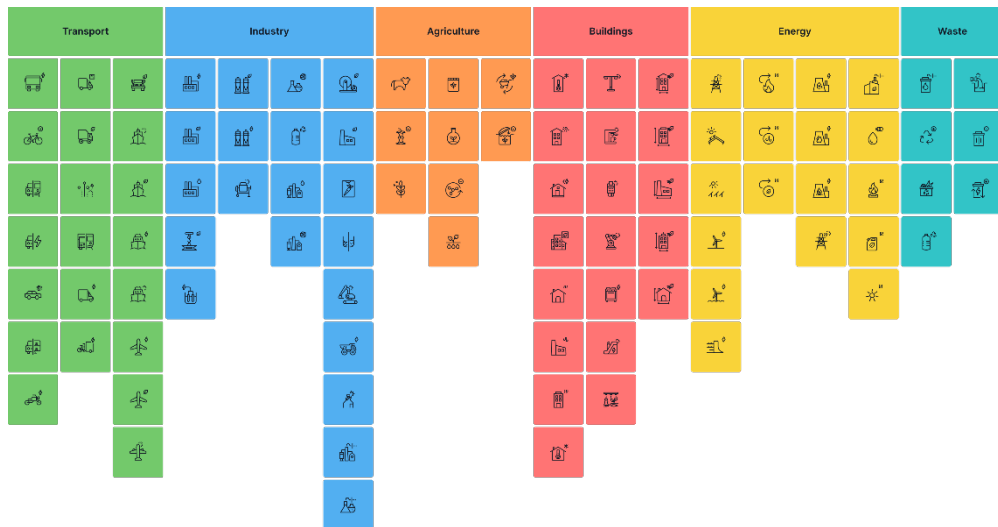
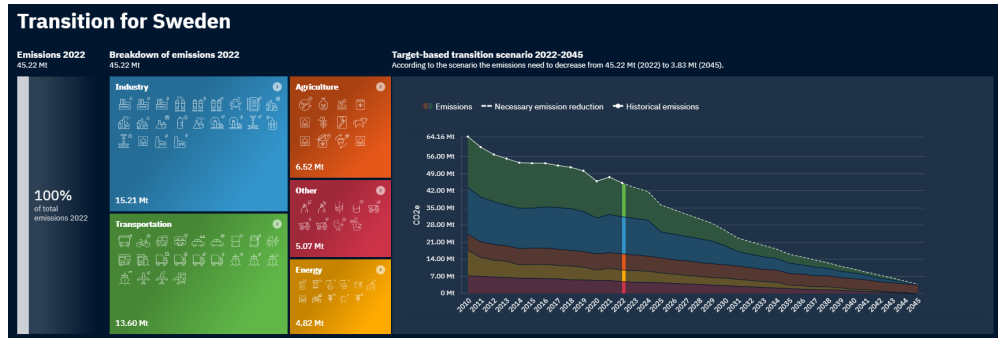
To progress towards the targets set in the Paris Agreement, businesses need clear long-term targets supported by sector-specific reduction strategies. Policymakers are key in this transition, focusing on infrastructure investment, permitting efficiency and public backing. Implementing climate-friendly technologies requires technology-neutral incentives and stable regulations, ensuring a predictable investment climate. Businesses highlight the value of carbon pricing mechanisms and phasing out fossil fuel subsidies.

Sweden can accelerate your country's green transition

Sweden aims to reach net-zero by 2045. The Swedish Climate Policy Council has supported the development of [Panorama](#), a platform that provides a systematic overview of ongoing and potential transitions across various sectors of our economy. The platform's Transition Element Framework is an open-source framework grounded in the IPCC's vast body of climate mitigation strategies. It covers Sweden's official emissions statistics and expert assessments, offering a clear picture of progress and highlighting the key policy instruments and initiatives that will drive our transition forward.

The Framework standardises knowledge into building blocks, aiding policymakers and stakeholders in planning, implementing and assessing climate actions. By codifying IPCC knowledge into actionable insights, it provides a structure and common language for advancing climate goals.

This structured approach ensures that Sweden’s transition is data-informed and transparent. It also serves as a model that can be adopted globally.



Enabling solutions that accelerate the green transition

The private sector remains a pivotal force in the transition, and much of the needed technology and know-how is already in place. Together we can accelerate these solutions by providing companies at the forefront with robust policy frameworks and access to capital to expedite their journey towards a fossil-fuel-free future. Investing in the green transition drives economic growth, builds a future-ready workforce and secures industry competitiveness.