NET ZERO CITIES | BELLONA EUROPA | Hafslund Rådgivning



Stockholm

Towards zero-emission construction in a climate-neutral city

KEY FACTS

Population
1,004,498
in the city

City area
188 km²

Construction activity
€37.3 billion
Planned for 2024-2040

Climate goal
Climate-positive
by 2040

LOCATION



WHY STOCKHOLM?

- Ambitious climate goals and political support
- Increasing zero-emission construction activity
- Renewable power supports electrification
- Potential to share lessons with other cities

STATUS FOR ZERO-EMISSION CONSTRUCTION

Stockholm is moving from pilot stage and towards early implementation phase. Electric machinery is already used in several urban development and transport infrastructure projects, with at least four fully electrified construction sites. The city has advanced from HVO to electrification through project-specific requirements, dialogue-based procurement and dedicated municipal funding. Stockholm aims to achieve net-zero emissions by 2030 and become climate-positive by 2040. Together with 12 other cities, it has signed a pledge for the majority of construction activities to be zero-emission by 2030. In addition, the city has committed to achieving at least 50% electrified machinery in groundworks by 2030. The city is initially focusing its zero-emission efforts on the central districts of Kungsholmen, Södermalm and Norra innerstaden. Key challenges include limited knowledge across the construction sector, insufficient access to electric machinery and higher costs. At the national level, further barriers include the absence of a machinery register, clear targets and targeted support schemes. The city are sharing knowledge through structured industry networks with national activity, and has put a side dedicated budget for municipal zero-emission projects.

STOCKHOLM POLICY OPTIONS TO ACCELERATE ZERO-EMISSION CONSTRUCTION

POLICY INSTRUMENT	STATUS TODAY	EXPECTED IMPACT	SUGGESTED NEXT STEPS
Pilot and demonstration projects Early implementation across city development and traffic projects.	Electric machinery is used in several city and transport projects, including one fully electrified site.	●●○ Medium	Track projects and machinery use. Scale proven models city-wide.
City climate target Set a city-wide direction for construction decarbonisation.	Net-zero by 2030 and climate-positive by 2040. Most construction activity is pledged to be zero-emission by 2030 through the Fossil-free Sweden agreement.	●●○ Medium	Quantify construction emissions and set measurable construction targets for 2030 and 2040.
Public procurement electrification target Flexible municipal requirements, vary from project to project on municipal projects.	Hagastaden targets 80% electrification of energy use, while some tenders name specific machines.	●●● High	Set a stepped portfolio target on energy use. Develop a framework for energy reporting for projects. Assess zero-emission zones.
Market dialogues Use structured dialogue to build demand, capability and trust.	Dialogue-based procurement is in use. A city-led network meets 2–3 times per term for knowledge sharing with industry and municipalities. Also national events to share knowledge across cities.	●●● High	Continue the network. Share lessons, connect industry actors and involve knowledge partners to strengthen targets and requirements.

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