

Copenhagen KPIs

The Smart Energy City, as a core to the concept of the Smart City, provides its users with a liveable, affordable, climate-friendly and engaging environment that supports the needs and interests of its users and is based on a sustainable economy. The Smart Energy City is highly energy and resource efficient, and is increasingly powered by renewable energy sources; it relies on integrated and resilient resource systems, as well as insight-driven and innovative approaches to strategic planning. The application of information, communication and technology are commonly a means to meet these objectives.

KP1 Resource system integration

	Level 1	Level 2	Level 3	Level 4
Integrated energy planning	Established energy team in tech and env department		Implementation of Climate Action Plan 2025	
Development of ICT use	Pilot project but no strategy underway			
Use of ICT tools in city planning and mgmt.	Data strategy for the city adminstraion is under development		Admin has a shared documents and archive system between departments	
Flexibility and transparency of service providers	Self-service citizens service		Open data portal	One administrative entrate to the city
Waste (integration with resource systems)	New Resrouces and Waste plan 2018	Reduce amount of waste for combustion by 20% from 2020	Increase the amount of household waste reused by 45% from 2013	
Transportation (integration with energy systems)	Policies for increasing non-car journeys, bike ot work journeys	Policies to increase public transportation and use of C-neutral fuels	Shift of light vehicles and heavy vehicles to new fuels	

KPI2 Access to energy services

	Level 1	Level 2	Level 3	Level 4
Access to affordable energy services	The city has no influence on power prices		The city helps developmment of district heating - providing 98% of households with DH	
Level of energy services provided	Has not been a priority for the city		It is not on the agenda in Copenhagen City	

KP3 Resilience

	Level 1	Level 2	Level 3	Level 4
Self-sufficiency distributed generation	City wide roll out of projects for DG		Full access to self-sufficiency supply technologies	
Energy price shock	Energy security is mainly a national issue			

KP4 Energy efficiency

	Level 1	Level 2	Level 3	Level 4
Reduction of energy use	Energy reduction is an important part of the Climate Action Plan 2025		Reduce residential heat use by 20% and power use by 10% from 2010	Reduce energy use in city administration buildings by 40%
Increasing efficiency	Pilot projects on distrcit heating and district cooling		98.5% of buildings connected to CHP production	
Increasing efficiency in the suply system	None or few initiatives on DSM			
Increasing end-use energy efficiency	Part of Climate Action Plan 2025 under energy consumption			

KPI5 Renewable energy

	Level 1	Level 2	Level 3	Level 4
Production of electricity and heat from RES	Under Climate Action Plan 2025 for district heating to become C neutral	Power production to be based on wind and biomass	Separation of plastic from waste to energy plants	

KPI6 Active users

	Level 1	Level 2	Level 3	Level 4
Smart City-reflective behaviour	Agenda 21 plan "Geen everyday life and quality of life passed	Includes a number of initiatives on behavioural change and	Section on smart citizens	
Awareness of the city's Smart energy vision	Got the Green City Award for 2014	Citizens ask for guidance on which action to take		
Formal& informal hubs and innovation centers	Part of agenda 21 citizen driven innovation	In cooperation with citizens, users,	local councils, orgs, media and research	
Self-sufficiency by users	80% of citizens think it is important that the city	to the citizens possibility to act environmentally friendly		
Engagement from users	The Agenda 21 plan includes specific initiatives	on increasing engagement		

KPI7 Sustainable economy

	Level 1	Level 2	Level 3	Level 4
Investment in innovation (public&private)	Investment in innovation is part of the Climate Action Plan			
Green initiatives	Development of Ørestaden	Coming development of Nordhavnen and Carlsberg		

KPI8 Smart Governance

	Level 1	Level 2	Level 3	Level 4
Local stakeholders involved in investment and maintenance	Development of Smart City Strategy	Part of the overall city development plan and	Climate Action Plan 2025	
e-Governance	Digitalisation strategy in place	Also run at national level		
Standards for data collection and analysis	CO2 Calculator	Yearly Environmental Plan	Environmental Impact Assessment	