

CRITICAL ACTIONS TO ACCELERATE THE BUILDINGS ENERGY TRANSITION



Heating



Cooling



Cooking



Lighting



Appliances



Embodied carbon

RELEVANT ENERGY
END-USE

KEY ACTIONS

Set out a clear vision for the building energy transition, supported by local delivery plans



Ban fossil fuel boilers in new builds from 2025, and their sale from 2035 in high income countries + China



Develop street-by-street decarbonisation plans and city-wide passive cooling programmes (e.g., planting trees and white roofs)



Commitments to reduce whole-life carbon emissions in buildings that are built, financed, and owned

Underpin incentives for, and trust in, clean and electric technologies



Carbon pricing (e.g., on high-carbon construction materials)



Ensure consumers benefit from low-cost renewable electricity generation (e.g., rebalancing gas and electricity prices)



Investment in innovation, skills and supply chains to drive down costs and improve efficiency



Ban the use of refrigerants with high global warming potential



Provide advice on clean technologies + insulation + smart and flexible technologies (e.g., solar, batteries, smart systems)

Create strong frameworks and standards for measuring and reducing whole-life carbon of new buildings



Regulations and certifications to set ambitious limits for operational energy efficiency (kWh / m²) and use actual, not modelled, data



Develop frameworks to measure whole-life carbon, mandate assessments, and set ambitious embodied carbon limits



Upskill on how to design lower carbon buildings (e.g., capabilities to use low-carbon materials, material efficient construction)

Manage new and peaky electricity demand with flexible and efficient buildings



Minimum energy performance standards for AC, heat pumps, appliances and lighting



Commitments to retrofitting the least energy efficient buildings by 2035 with low-cost finance and guidance



Rollout of smart meters and introduction of time-of-use tariffs

Deliver a fair and just transition for households



Low-cost finance and new financial products for retrofits, heat pumps, clean cooking and efficient AC



Early planning for location-specific and co-ordinated gas grid phase down



Investments in improving the energy efficiency of social housing and implement minimum standards for rental properties

KEY ACTORS

Leading actors

Supporting actors

POLICY MAKERS

FINANCIAL INSTITUTIONS

BUILDING OWNERS & COMMERCIAL BUSINESSES

DEVELOPER & CONSTRUCTION

ENERGY & TECH COMPANIES

