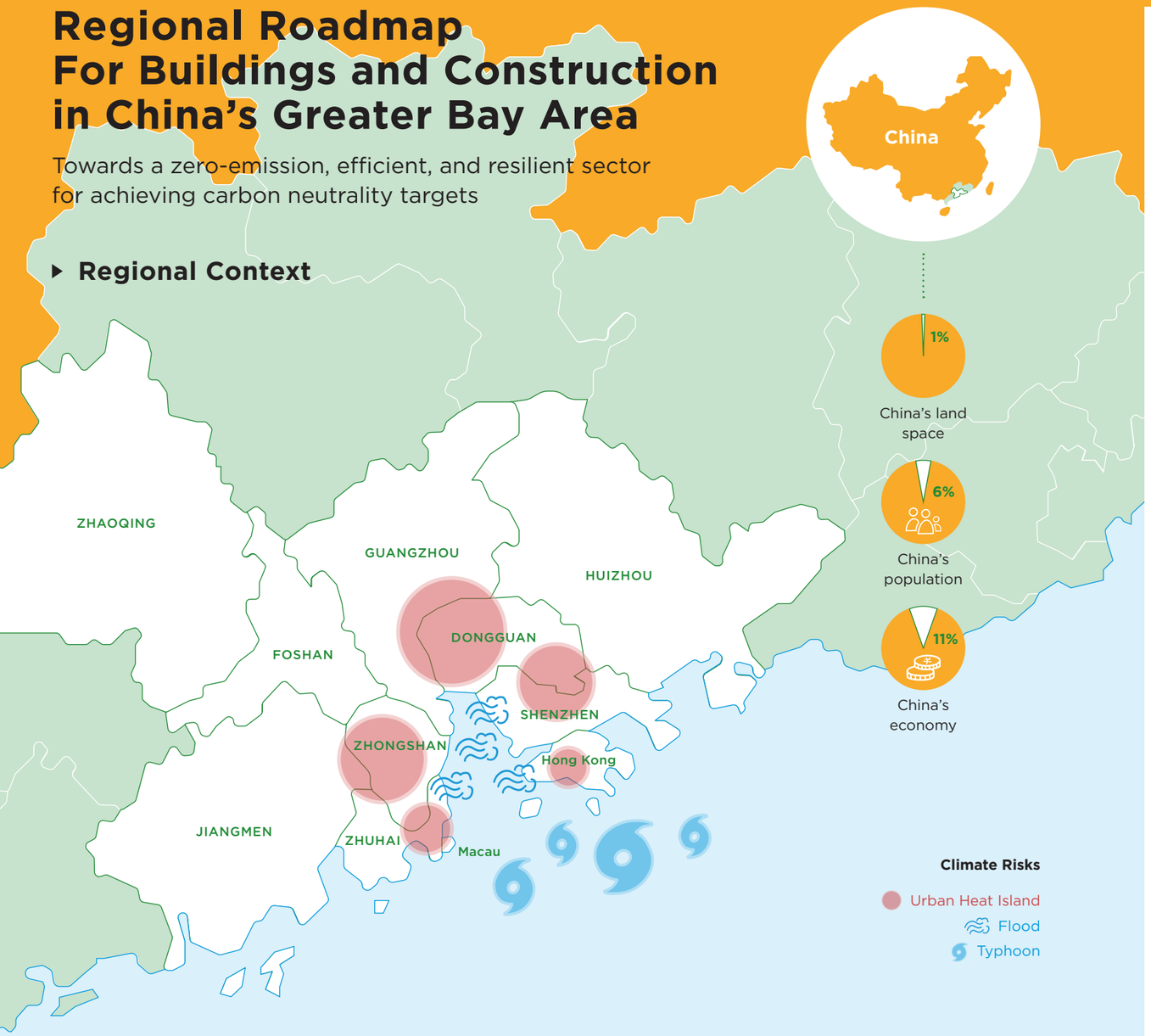
Regional Roadmap For Buildings and Construction in China's Greater Bay Area

Towards a zero-emission, efficient, and resilient sector for achieving carbon neutrality targets

Regional Context



Climate Policy Outline

2015
Paris Agreement, international treaty on climate change

2020
China's 30–60 strategy announced

2030
China's target to peak carbon emissions

2050
international target to limit global temperature increase to 2°C

2060
China's target for carbon neutrality

The Global Alliance for Buildings and Construction (GlobalABC) has launched a Roadmap process to facilitate a shared language and vision for achieving the complete decarbonisation of the sector.

The project team applied this approach to the region, starting in 2022, with the aim of engaging multiple stakeholders. This highly dynamic megalopolis has the potential to play a pioneering role in supporting China's carbon neutrality journey.

Intersted in learning more?

We invite you to take a deeper look into the complete study.

Key Findings

New Buildings

Scalability: significantly increase ambition target and building codes in all project phases. Mitigate the risk of stranded long-term investments.

Existing Buildings

Create awareness for the decarbonisation of the building stock. Prioritize public buildings to lead by example. Accelerate scalable modularized retrofit measures.

Appliances & Systems

Increase supply and demand for high energetic performance in appliances.

Building Operations

Implement energy management obligations and processes to drive an energy efficient building operation through information and behaviour change.

Materials

Integrate life cycle perspectives through low carbon materials and recycling programmes.

Urban Planning

Promote integrated sustainable urban planning between core GBA zones, including smart city solutions.

Resilience

Implement forward-looking planning approaches and accelerate dynamic response speed and flexibility to climate emergencies.

Clean Energy

Scale up local renewable energy and regional grid supply, implement smart city solutions.

Enablers

Key to achieve the complex transition is establishing an effective stakeholder engagement network, including public, private, academic and financial sectors, and fostering of system innovation.

Global Alliance for Buildings and Construction
dena German Energy Agency
ICLEI Local Governments for Sustainability EAST ASIA
中国建筑科学研究院有限公司 China Academy of Building Research