



British Deputy
High Commission
Kolkata



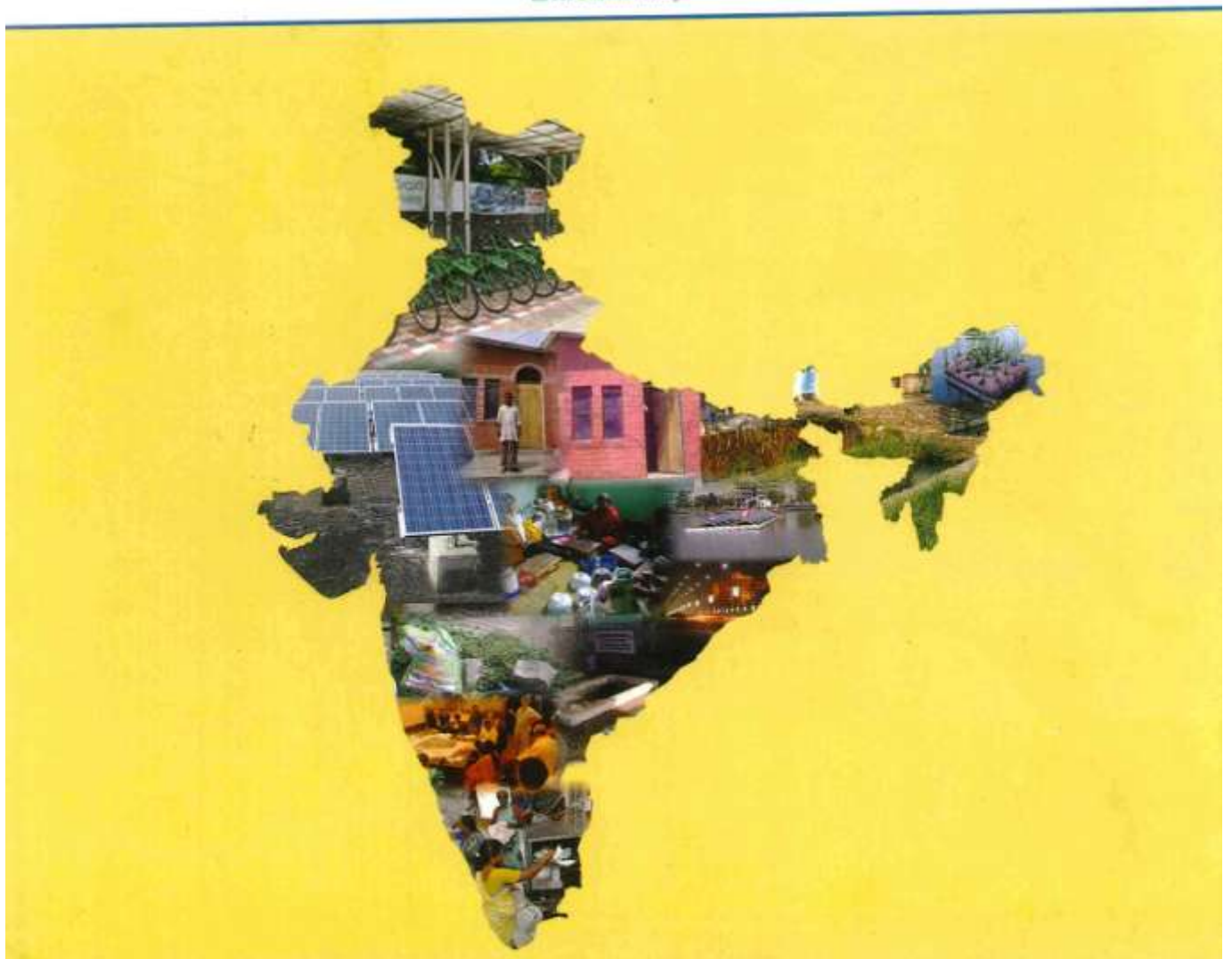
Councillors' Sensitisation Programme under

The UK-KMC MoU on Low Carbon & Climate Resilient Kolkata

INITIATIVES & INNOVATIONS ON CLIMATE CHANGE CASES FROM URBAN INDIA

Compendium prepared by

ICLEI South Asia



Case 4: Grid-connected Rooftop Solar Power for Apartments: Kolkata

SIRSA, a 10-storied residential apartment for officials of the Central Glass & Ceramic Research Institute (CGCRI) beside Rabindra Sarovar, Kolkata, is aspiring to be self-reliant in power requirement.

The SIRSA complex has residential flats, lifts, filtered water supply, power back-up and a guest house with an average energy bill of Rs 1.60 lakh, of which 55% is paid by residents as per metered consumption. SIRSA commissioned solar panels with subsidy from the Ministry of New and Renewable Energy (MNRE), Government of India. The generation system is connected to the grid to sell the surplus power to the local distribution company through a power purchase agreement. The residents also adopted energy efficient lighting system, pumps, lifts and other machineries to reduce consumption. The initiative has saved Rs. 2.33 lakh in 7 months for the residents, 52 tonnes of carbon emissions and 284 kilo litres of water. It is expected that once West Bengal adopts a rooftop solar policy for the city, the Councillors can encourage the development of similar initiatives in existing and new constructions in their wards.



Case 5: Floating Solar Power Plant: Kolkata



A unique floating solar power plant has been developed by Kolkata based Arka Renewable Energy College in New Town, Rajarhat. The plant, set up in an open water body near Eco Park of New Town area, has a generation capacity of 10 KW/day which will be supplied to the West Bengal State Electricity Development Corporation Limited (WBSEDCL). The experimental project has been funded by the Ministry of New and Renewable Energy (MNRE), Government of India. Such solar plants have higher efficiency due to availability of more shadow-free area and can solve the requirement of land area for power generation to a great extent.

Case 6: Water Body Restoration through Phyto-Remediation: Howrah

Howrah Municipal Corporation (HMC) has taken up innovative interventions through bio-remediation measures of a canal, next to a solid waste dumping site, to reduce pollution. This intervention includes canal embankment protection, floating gardens by using bio-engineering techniques with plants and beneficial microbes for de-contamination. These are eco-friendly techniques and is a low-cost approach requiring little capital investment and maintenance.



Case 7: Citizens' Participation in Climate Responsive Urban Planning: Aluva



Supported by British High Commission, an innovative project has been taken up for Aluva Municipality, Kerala which combines local knowledge and international expertise to establish a framework to guide growth in an integrated manner to respond to the challenges of urbanisation, climate risks and impact on existing and future local communities. It enhances resilience to risks and defines and catalyses a series of early-win exemplar projects to reduce energy intensity, improve liveability and build support for further action. The project aims to deliver a mechanism built on local stakeholders' consensus that can enable capacity building to understand and act upon short-term urban and long-term climate change through a series of processes and tools. This is the first time an integrated analysis of Aluva's development pathway prepared and used to explore sustainable scenarios for Aluva's future development. Based on the draft

action plans Federal Bank has announced their commitment to funding the implementation of those activities to make Aluva a global future proofed city through their Corporate Social Responsibility (CSR) initiative.

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Canal Eco - Restoration

Location at - Belgachia , Ward No.8, Howrah Dist. West Bengal, India

Project Implemented By

SYMBIO GREENTECH Pvt.Ltd.

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