Adopting Integrated Urban Water Management

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India’s Water Sector Scenario

India is blessed with an abundance of water resources and large rivers, but still it is currently facing the terrifying possibility of becoming a water scarce country by 2025.

India is placed at 120th amongst 122 countries in the water quality index, with nearly 70% of water being contaminated.

600 million Indians face high to extreme water stress and about 0.2 million people die every year due to inadequate access to safe water.

The water requirement by 2050 is likely to be 1,180 BCM, whereas the present-day availability is 695 BCM.

Cities are key in addressing climate change through integration of water energy nexus & climate resilience strategies into local development planning.
INDIAN CITIES AND WATER SECTOR
Climate risks to Indian Cities - heat stress, inundations, water shortages, droughts, environmental health risks and migration to urban areas.

- US$ 1.2 trillion in capital investment required over the next 20 years to meet urban services demand.
- Equivalent to $134 per capita per year, almost eight times the level of spending today.

For Indian Cities:
- Increases in both mean minimum and maximum temperatures by 2–4°C.
- Increase of 7–20% in mean annual precipitation.

Background

Most of the cities bring water from distance sources (average 100km – 200 km) resulting in high NRW.

Only 70 per cent of the urban households have access to piped water supply.

Though the per capita availability as reported ranges from 90 to 120 liters per day, but no city yet offers continuous water supply.

More than 40 percent of water produced in many Indian cities does not earn any revenue.

Water and its allied sectors like waste water and storm water drainage sectors work in silos.

Insufficient infrastructure and lack of institutional reform I, impacting the efficiency of urban water sector.
Key Programmes/initiatives

National Water Mission: Goal 4 - Improving Water Use Efficiency by 20% by ensuring improved efficiency both on the demand side as well as the supply side.
ICLEI South Asia’s Projects on Integrated Water Management
ICLEI – Local Governments for Sustainability is a network of more than 1,750 local and regional governments, supported by a team of global experts, driving sustainable urban development worldwide.
ICLEI is the leading global network cities, towns and regions, committed to building a sustainable future, since 1990.

1750+ cities, town and regions

active in 124+ countries

impacting > 25% of global urban population

with 300 staff in 22 offices
Towards Sustainable Cities

What we do?
How we promote urban sustainability

We provide gateways to solutions

- Scale up and expand the model of sustainable cities and regions
- Make sustainability a fundamental part of all local and global development
- Tackle the most pressing issues of our time to protect the long-term interests of citizens
- Undertake a collective effort for global change across all sectors and levels of government
- Low emission development
- Resilient development
- Circular development
- Equitable and people-centered development
- Nature-based development
- Our policy approaches to drive global transformation
- Sustainable governance & management: sustainable development is a collective effort
- Innovation & science: sustainable development must work with and for all
- Finance: sustainable development needs innovative models of finance

We connect leaders
We accelerate action
We provide gateways to solutions
ICLEI’S Projects on Integrated Water Management

**Regional Level**

**IAdapt**
IDRC funded initiative at micro catchment level. The project is being implemented by ICLEI South Asia in partnership with IITM, IWMI and Athena Infonomics.

**City Level**

**Adopt IUWM**
EU funded project implemented by ICLEI South Asia in collaboration with ICLEI European Secretariat and VVSG.
1. Adopting Integrated Urban Water Management for Indian Cities (AdoptIUWM)
**Integrated Urban Water Management for Indian Cities**

**Pilot Interventions in India**

**Jaisalmer:** SWM & Revival of interlinked pond and traditional RWH structure

**Kishangarh:** SWM & reduce pollution in the catchment areas of local water

**Ichalkaranji:** Reducing pollution load on water

**Solapur:** Ground water recharge
## Integrated Urban Water Management for Indian Cities

### Outcomes of pilot Interventions

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<tr>
<th>Outcome</th>
<th>Image Description</th>
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<tbody>
<tr>
<td>More than 15,000 direct beneficiaries in 4 Indian cities</td>
<td><img src="image1.png" alt="Image" /></td>
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<tr>
<td>Connected more than 30 house holds with SBM</td>
<td><img src="image2.png" alt="Image" /></td>
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<tr>
<td>Benefited more than 5,000 women and school girls in slum areas</td>
<td><img src="image3.png" alt="Image" /></td>
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<td>Capacity building of more than 80 officials from 4 ULB on IUWM and waste management</td>
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<td>Trained more than 35 city on IUWM Toolkit</td>
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<td>A multi stakeholder platform</td>
<td><img src="image6.png" alt="Image" /></td>
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<td>IEC and peer learning activities</td>
<td><img src="image7.png" alt="Image" /></td>
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<tr>
<td>Recognized at International Platform &amp; by National Government</td>
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2. Integrated Rural Urban Water Management for Climate based Adaptations in Indian Cities (IAdapt)

To institutionalize climate change adaptation measures through the creation of an enabling ecosystem to adopt and implement IUWM approaches and IWRM approaches at catchment level guided by participatory catchment planning, simple decision support tools, preparation of catchment level action plans and multipronged financing approaches.
3. Integrated Urban Water Management and implementation in Rajasthan cities (Kishangargh & Ajmer)

To build capacity of urban local bodies to mainstream integrated urban water management principal into municipal line function’s existing activities and planning process.

• To secure local water bodies by restoration of catchment boundaries of local lakes/water bodies and reducing solid waste dumping.
• IUWM Action plan
• Implementation of the project in Kishangargh and Ajmer City
Thank You!

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