

Urban-LEDS project

City Developments and Experiences – Pimpri-Chinchwad

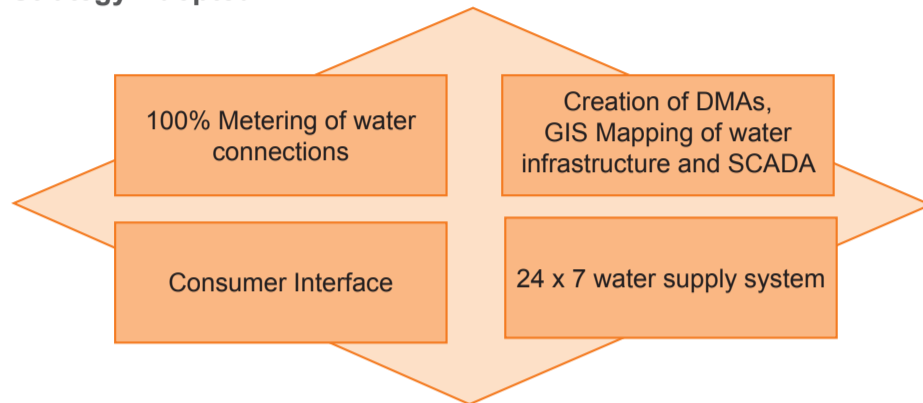
Low-carbon development: planning and actions implemented

1. Sustainable Water Supply through implementation of SCADA system

Year of Establishment: 2010

Investment: Government of India through JNNURM (70%) & Pimpri-Chinchwad Municipal Corporation (30%)

Strategy Adopted: -



Impacts / Results

- Equitable water supply distribution
- Water quality monitoring
- Pressure monitoring. Also helpful in identifying pipe burst or leakage in mains
- Automated system for WTP (clarifier, filter operations)
- Report generation of Daily flow, Variation in water level & energy consumption

2. PCMC GRIHA (Green building rating system) Model

Year of Establishment: 2011

Incentives for adopting GRIHA		
Discount in premium for Developers for the project registered on or after 20.01.2011		
Points scored	Rating	Discount in premium
50-60	*	10%
61-70	**	20%
71-80	***	30%
81-90	****	40%
91-100	*****	50%
After the project is handed over to the occupants, they will get benefit in property tax		
Points scored	Rating	Discount in Property tax
71-80	***	5%
81-90	****	8%
91-100	*****	10%

Impacts / Results

- Reduced energy consumption without sacrificing the comfort levels
- Reduced destruction of natural areas, habitats, and biodiversity, and reduced soil loss from erosion etc.
- Reduced air and water pollution (with direct health benefits)
- Reduced water consumption
- Limited waste generation due to recycling and reuse
- Reduced pollution loads
- Increased user productivity

3. Bus Rapid Transit System (BRTS)

Coverage: 42.22 Kms

Year of Establishment: 2008

Total Project Cost: INR 738.16 Crore

Investment: Government of India, Loan from World Bank, Pimpri-Chinchwad Municipal Corporation & Government of Maharashtra

Status: Corridor-I (Operational) (Total four corridor proposed)



Impacts / Results

- Highly randomized development with localized trips
- Improving Urban Air quality
- Supporting green Urban economy
- Leverages the full scope for public space and accessibility improvement
- Increasing carrying capacity through widening and improve riding quality through strengthening of existing roads.

Challenges and solutions: how we addressed these ...

Challenges

- Rapid growth in population & rate of urbanization
- Lack of an integrated traffic and transportation system
- Unaccounted for water and high T&D losses
- Increasing pressure on land
- High level of pollution in key water bodies
- Increase in waste generation

Solutions

- Dependable Urban Transport Infrastructure
- Integration of GIS with SCADA system
- 100% metering & billing; Online payment collection & Supply management
- Building codes integrating nation Green building standards
- Planning of De-WAT system
- Landfill CH4 recovery

Lessons learned: we recommend to others

- Encourage GREEN BUILDINGS by providing incentives: This will reduce the need for further generation of electricity at national level as well as reduce the pollution at place of generation.
- Encourage development which will treat and reuse wet solid waste and divert the dry waste into recycling stream. This will reduce the need to invest in collection, transportation and treatment of solid waste at ULB level.
- Innovative Knowledge Sharing and Campaigning to generate People Awareness and to bring about behavioural change towards efficient Water Utilization.

