

# Citywide inclusive climate-resilient WASH

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## Climate Adaptation Measures



### Scheduled Desludging Operations

- Scheduled desludging has led to multidimensional positive impacts, including affordable and inclusive WASH services, performance-based contracts, and digital monitoring through the mobile app.
- Wai has successfully completed its first three-year scheduled desludging cycle.
- Karad has a 100% sewerage system.
- Financing is integrated with property tax.



**+7 Lakh**  
SD service  
to people

**+90**  
Million lit  
Septage  
treated

### Treatment at FSTPs and STPs

- 100% of Septage collected through desludging operations is treated at FSTPs and STPs.
- The capacity of the Vita FSTP was increased from 10 KLD to 35 KLD, with 25 KLD treated through mechanical dewatering and 10 KLD through nature-based treatment.
- In Karad and Ichalkaranji, septage is treated at STPs
- After treatment, the by-products are reused at the urban forest sites.



### Universal coverage of Individual Household Toilets (IHHT)

- More than 95% IHHT coverage has been achieved across all these cities.
- ULBs are actively working towards achieving 100% IHHT coverage.
- The Central and State Government provide a subsidy of ₹12,000 per household.
- ULB incentives range from ₹5,000 to ₹12,000 per household.



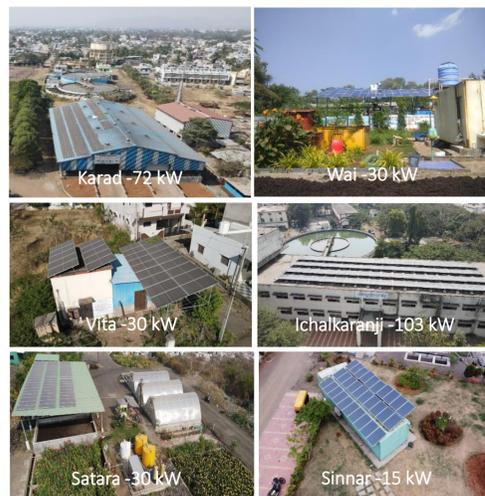
## Climate Mitigation Measures

### Moving Towards Energy Transition Through Solar Installations

- Energy transition by solar installations making plants energy neutral
- Total Solar Capacity Installed across 6 cities - 280 kW

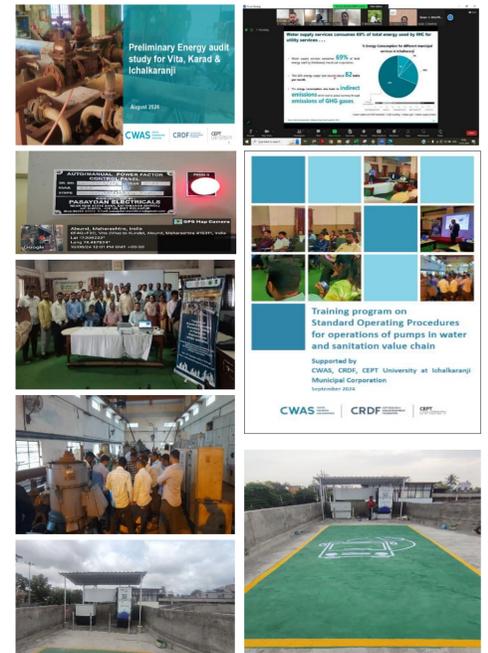
#### Scale up of solar installations:

- IMC: 800 kW PPP-based solar project tender finalized for municipal buildings; work underway.
- VMC: 450 kW solar project proposed at the Water Treatment Plant.
- KMC: 760 kW solar project tender finalized for STP and SWM site; work underway.



### Energy Efficiency Initiatives

- Energy audits to improve plant efficiency and power consumptions
- Walk-through energy audits of the WASH services were conducted in five cities.
- +40 inefficient pumps identified for replacement across 5 cities.
- APFC panels installed in Vita improved power factor from 0.83 to 0.99, resulting in ~₹10 lakh monthly savings.
- SOP training for pump operators and engineers was conducted in collaboration with Kirloskar Brothers Ltd.
- 240KW electric vehicle charging station installation has been completed in Ichalkaranji.



**+660 MWh**  
Generated  
till Jan 2026

**+50 lakh**  
Savings till  
Jan 2026

**+470 tons**  
Carbon Emissions  
reduction

### Carbon sinks (Urban Forest) Developed

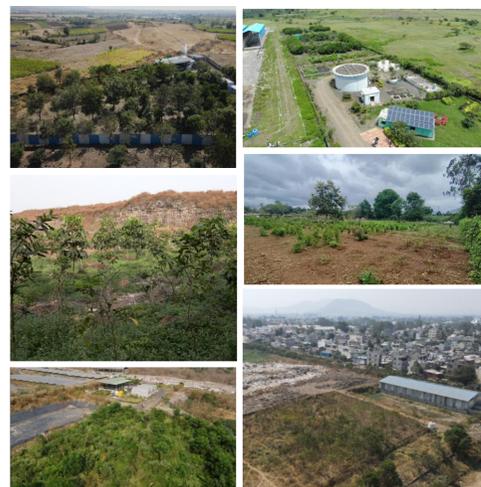
- Urban forestry around FSTP/STP/SWM sites acting as carbon sinks and demonstrating reuse of the dried sludge and treated water

#### Demonstrations through Private Organizations:

- More than 9000 Tree plantation over +13,500 Sq.m land

#### Through Scale up by ULBs:

- More than 70,000 Tree plantation over +60,000 Sq.m land



**+76 Million Litres**  
Fresh water saved

**+1 Lakh tons**  
CO<sub>2</sub> Sequestration Over 25 years

### Overarching Activities

#### Gender Inclusivity and SHG Engagement

- Gender inclusivity by engaging local SHGs in WASH services for O&M post trainings
- Workshops on gender inclusivity, safety and dignity at workplace were conducted for HoDs and employees of all departments and sanitation workers across all cities.
- In Vita and Wai SHGs maintain MHM facilities at CT/PTs, earning ₹15-20K per month.
- In Wai, Sinnar, Satara and Karad SHGs are engaged in the maintenance of urban forest sites.

