

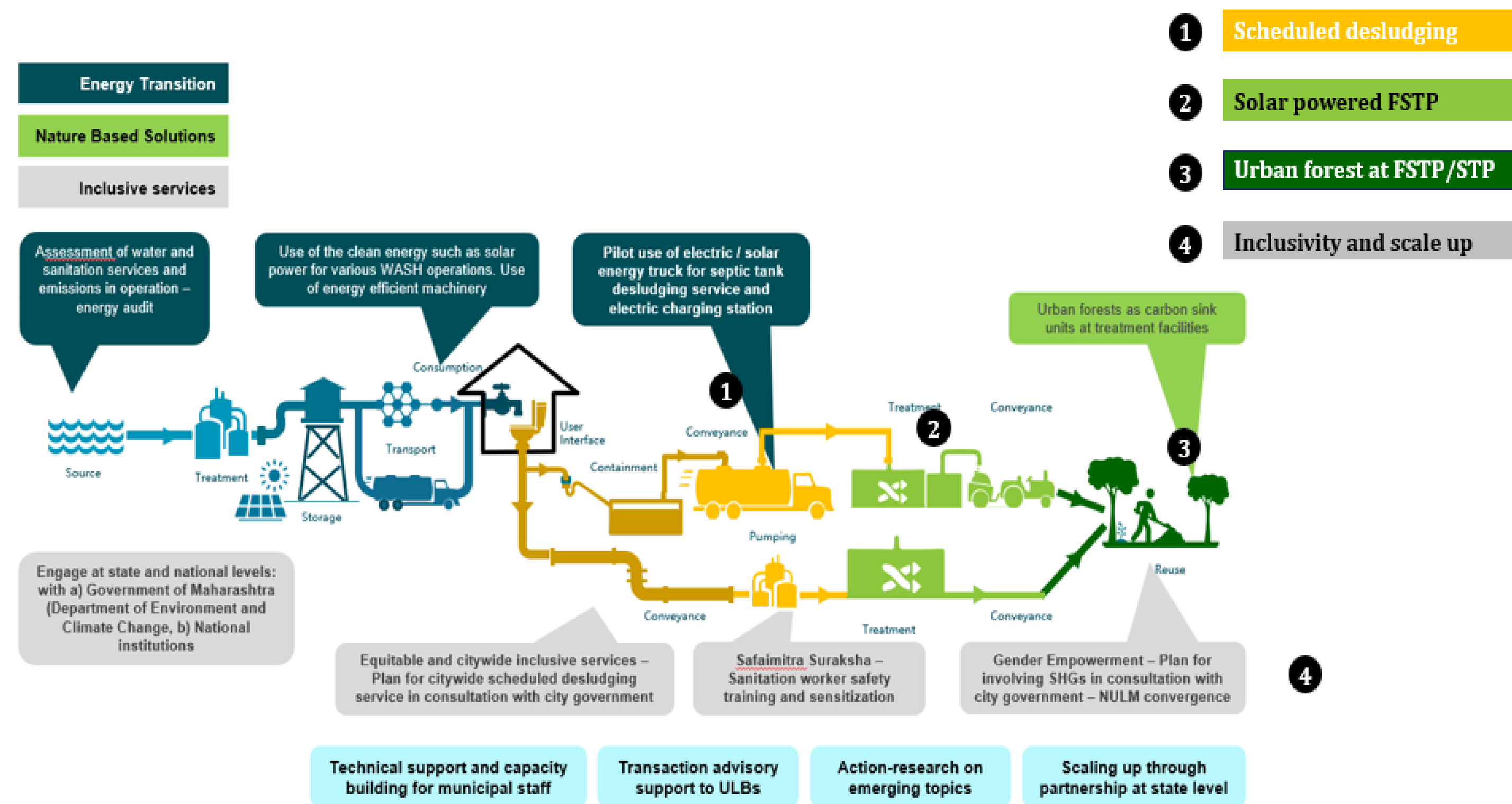
INTEGRATING CLIMATE RESILIENCE IN URBAN WASH

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Climate resilient actions across the sanitation value chain: Lessons from cities of Maharashtra



- Six Small and Medium towns ranging from 40,000 to 4 lakh population setting up examples of building climate responsive WASH services.
- Towns are located in **different climate conditions** facing drought as well as flood situations.
- All the 6 towns have **different WASH services context** in terms of **services provision** both onsite and offsite water and sanitation services.
- Initiatives taken up to provide **cross sectoral impacts**.



Climate Adaptation Measures

Scheduled Desludging and Universal Access to IHHT

- Scheduled desludging:** 3-year cycle covering **citywide universal coverage** in Wai and Sinnar.
- Safe sanitation:** 12.83+ crore litres safely treated and reused in 2024–25.
- Improved cost recovery:** Sanitation tax integration increased compliance by 10–15%.
- Universal toilets:** Supported IHHT access for vulnerable households.
- Women's participation:** Engaged **SHGs and women officials** in WASH, climate action and FSSM.
- Women's leadership:** FSSM training for women representatives and officials.
- Worker safety:** Gender-specific PPE, training and health camps ensured.



Moving Towards Energy Transition Through Solar Power Projects

280 kW solar installations demonstrated, leveraging 2,000+ kW additional capacity through public investments

Scale up of solar installations by ULBs:

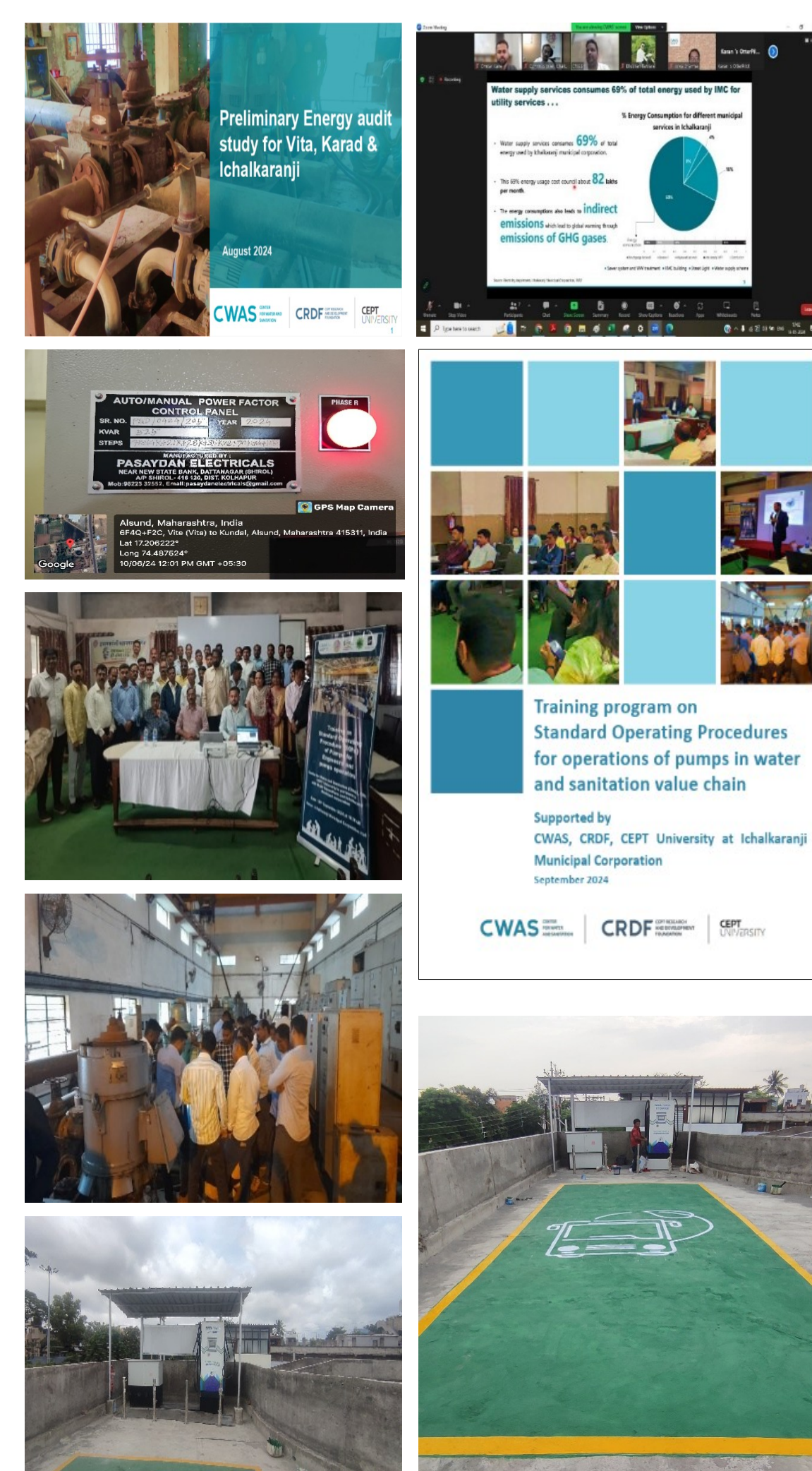
- Karad:** 760 kW solar at STP
- Vita:** 450 kW solar at FSTP
- Ichalkaranji:** 800 kW solar at WTP
- Wai:** 30 kW solar at FSTP
- Satara:** 30 kW solar at FSTP
- Sinnar:** 15 kW solar at FSTP



Climate Mitigation Measures

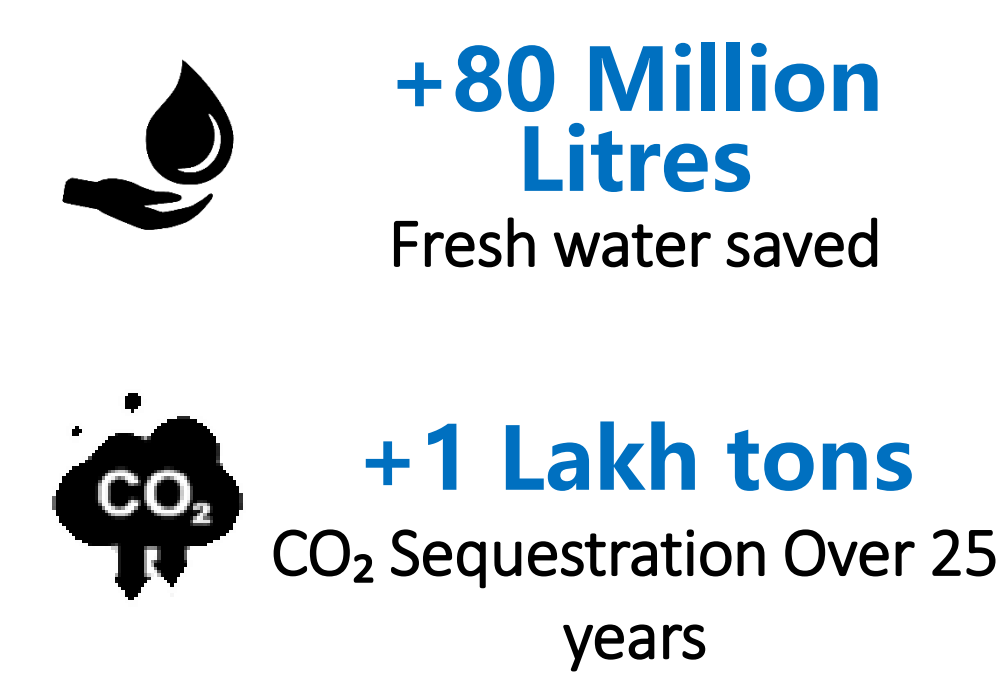
Energy Efficiency Initiatives – Energy Audit Study

- Preliminary energy audit** conducted to analyse **energy consumptions**
- 10-year LCC analysis:** Payback of 0.35–1.3 years, with net savings of **₹28.5 Cr in Karad, ₹15.4 Cr in Ichalkaranji and ₹9.2 Cr in Vita.**
- +40 inefficient pumps** identified for replacement across 6 cities, offering significant energy-saving potential.
- APFC panels in Vita** improved power factor from 0.83 to 0.99, generating **~₹10 lakh/month in savings.**
- Pump operation SOP training** conducted for operators and engineers in collaboration with **Kirloskar Brothers Ltd.**



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**



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 SHG maintain **MHM facilities** at CT/PTs, earning **₹10K per month.**
- In Karad SHG is engaged in the **maintenance of urban forest sites.**



Awards and Recognitions

- Vita MC:** Received the **Super Swachh League Award** under Swachh Survekshan 2024–25.
- Karad MC:** Received the **Swachh Shehar Award** under Swachh Survekshan 2024–25.
- Ichalkaranji, Karad & Vita:** Received the **IWA Climate Smart Utilities Recognition Award (2024).**
- CWAS/Project:** Won the **Doing Good for Bharat Award 2024** in the Environment Category.
- Ichalkaranji MC:** Secured **3rd Rank in MVA 4.0 (2023–24).**
- Karad:** Invited to the **South Asia Webinar Series on Government–Academia Collaboration.**



Scaling Up Climate WASH initiatives through Majhi Vasundhara Abhiyan (MVA)



Majhi Vasundhara Abhiyan (MVA) is a Government of Maharashtra competition-led campaign promoting citizen participation in climate action. Now in its **7th cycle (April 2026–March 2027)**, **CWAS** supported the development of **actionable toolkits** and **capacity-building** for local bodies to implement climate initiatives on the ground.

