



## Ujjain BIO-METHANATION PROJECT

Ujjain, the ancient city, situated on the banks of River Kshipra in Madhya Pradesh. There are 4 daily markets and 3 weekly markets in the city which produce 25 – 30 MT of vegetable waste weekly. The implementation of the Bio-methanation plant has emerged a head turner as it has become self-sustainable by using the existing resources and then later converting it into electricity which in return is used for the working in the plant and also to the nearby street lights. Also, the materials implemented in the project such as smellers, powders acts as an upper edge towards treating and prohibiting health issues for the laborer. The implementation has focused on Waste to Energy utilization. The plant is processing the bio-degradable waste of the city to generate electricity and compost and is currently processing 5 tonnes per day of waste and is planned to be scaled up in the near future. This plant is helping in the solid waste management of the city and is also a step towards reducing the burden on non-renewable resources by producing electricity.



Ujjain, Madhya Pradesh  
(Not to scale)

### Project Highlights

- Decentralized waste treatment plant directly connected to the electricity grid
- Sustainable collection mechanism
- Revenue Generation
- By-product utilization

### Key Stakeholders

- Ujjain Smart City
- Nagar Nigam
- Aryan Associates



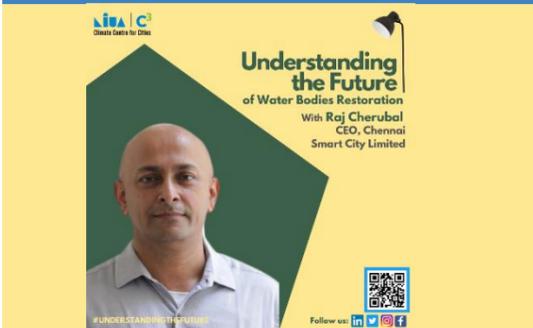
Vegetable waste being disposed into the Plant

### Achievements

The development and inception of the waste to energy plant has resulted in the following benefits and co-benefits:

- Provided electricity to light the Street Lights in Ujjain using clean energy
- Reduction in the amount of waste reaching land fills
- Reduction in the cost of tipping fee and C&T cost was also reduced on the ULB
- The slurry generated from Bio-methanation is utilized for landscaping and farming purposes
- The project promoted the awareness of clean and green technologies and reduced greenhouse emissions onto the environment by 12,176 Kg/month

### PODCAST



#### Understanding the Future Podcast on Water Bodies Restoration

Climate Centre for Cities talks to Mr. Raj Cherubal, CEO, Chennai Smart City Limited on Understanding the Future of Water Bodies Restoration.

In this episode, we understand the process of implementation of water bodies restoration on scale and how different stakeholders can play collaborate together to bring the change.

[Listen](#)

### ANNOUNCEMENTS



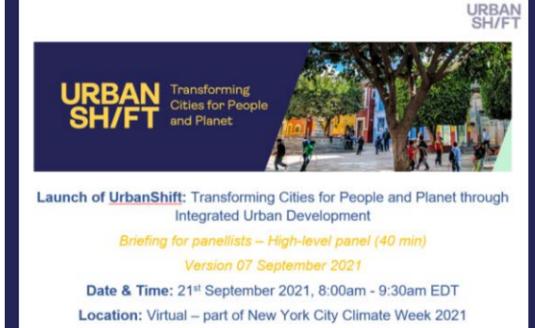
#### Learning Series Session 10 Active Mobility Systems - Pandemic and Beyond

C-Cube, NIUA in collaboration with the World Resources Institute (WRI) India launched 10-part learning series on "Climate Change and Cities".

Join the Session 10 of the series on 16 September 2021, 3 PM focusing on **Active Mobility Systems - Pandemic and Beyond**.

[Register](#)

### EVENT



#### Launch of UrbanShift: Transforming Cities for People and Planet through Integrated Urban Development

**UrbanShift** is funded by the GEF Sustainable Cities Impact Program and brings together stakeholders from across the world to work towards a common vision of **sustainable, inclusive, and resilient urban development**.

The programme supports more than 20 cities in Argentina, Brazil, China, Costa Rica, India, Indonesia, Morocco, Rwanda, and Sierra Leone.

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