

YUVA Innovation Platform

Idea Box 2

**Waste Disposal Problem in India: Will it ever go
away**

Case Study: India

17th July 2014

Lausanne, Switzerland

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YUVA INNOVATION PLATFORM: IDEA BOX

WILL IT EVER GO AWAY?

Waste Disposal Problem of India



17th July
18:30h
EPFL

Urban India generates 68.8 million tonnes of MSW per year, and waste generation increases by 50% every decade. The growing economy of India will burden this poorly managed system turning into a threatening menace. Waste management policies and practices heavily impact the environment, well-being, and quality of life. We want to brainstorm on the problems and the perspectives of solid waste management in India in this idea box session.



Idea Box: 2 Waste Management in India

The following notes were made during the discussion:

Sushant Sachdeva

Post Doc Yale University, UG IIT Mumbai

"Plan Zero waste management" caters to the Indian Waste management need. India has no collection mechanism. Foreign waste management will be difficult to implement in India.

Vibhuti Chhabra

PhD Monash University IIT B Reactor Technology

There are not enough plants in India. Small collection and burning in open dumps are a big problem. Collecting and treating are big issues that need to be addressed.

Govinda Updhaya

PhD Student Energy, YIP

It is a social problem. It can go to a higher level only after it solves in the people level. Waste separation should be done at the house level and people should demand. Management level decisions are needed also. E Waste Management must be done by the manufacturer.

Czuee Morey

PhD Student Life Science, UNIL and CHUV, YIP

A system should be in place. Solid waste Management is difficult and we have a huge population. Hazardous waste is not dealt with properly. System and awareness should be in tandem.

Rajasundar Chandran

PhD Student EPFL, Yuva VP

The social level needs to be addressed well. Education and awareness towards waste management is necessary. Incineration is a good option with proper infrastructure.

Abhishek Tewari

PostDoc Materials, LTP, EPFL, YIP

Segregation and collection should be done at an individual level. Waste mismanagement is a huge loss of resources! 90% is landfilled. Case study of Nasik shows the possibility of financial viability. There needs to be a reward system

Soumya Subhra Basu

Masters Phd Student Electrical

Collection and Segregation needs to be addressed. Mostly about awareness rather than education. Area centric solutions are needed.

Abhishek Kumar**PhD Student**

Technology is there. Companies should get rid of the municipal parties and collect the waste directly.

Srinivas**Post doc EPFL**

Collection needs to be focused a lot. Awareness is very important.

Deepak

Tetrapak

In Tetrapak 20 % of recycling is done. The waste discomposes by a water technology and then mixed to make boards.

Segregation at the source is required. Manual Labor is also needed. Incentivize collection.

Leena Bansal

Mentioned an example of recycling in the slum to an industry

Focus Areas

Collection (Awareness)

Treatment

Discussion**Collection****Waste Collection****Privatization:**

Can the waste management be profitable with proper incentives

Follow the newspaper model.

Awareness

Solid waste management course

Campaigns

Government**Treatment**

Examples of Technology

1. Pyrolysis
2. Integrated technology
3. Technology using bacteria for decomposition of plastic.

Things that can be done

Collection at the source

- Pilot study needs to be done.

Segregation

- Government needs to put regulations on materials used for packaging etc.

Taxation

- Part of house taxation

Bring in Privatization