UNIDO Energy and Environment Portfolio



SAMEEEKSHA Event

12 January 2019













SUSTAINABLE DEVELOPMENT GOAL 9
INDUSTRY, INNOVATION AND INFRASTRUCTURE

UNIDO Regional Office in India



Build resilient infrastructure, promote inclusive and sustainable industrialization and foster innovation

Advancing economic competitiveness

Factories that are fit for the future, as were already needed yesterday

Inclusive and Sustainable Industrial Development

Creating shared prosperity

Safeguarding the environment















Energy and Environment Portfolio in India

Energy Efficiency

Renewable Energy

Cleantech Innovation & Entrepreneurship

Chemicals and Waste

Convergence of industrialization and urbanization

Sustainable Cities

Hubs of Innovation, Low Carbon Industrialization and Climate Action

















UNIDO Regional Office in India

Industrial Energy Efficiency



1. Significant – yet unquantifiable untapped EE potential with multiple co-benefits (materials, water, waste, productivity, quality)

2. Three staged potential: Fix – Improve – Innovate; each requiring specific interventions

Energy Efficiency in 22 MSMF Clusters

4. EE programme delivery at scale suffers from general deficiencies in the business support ecosystem

3. Lacking business case (or sense of urgency) and high transactional efforts impede EE uptake in MSMEs





















Renewable Energy in Industry

(Internationally) proven technologies with good potential for industrial applications in select sectors



- 1. Estimated market potential 6.5 GWth in India (solar thermal heat application up to 400°C)
 - 2. Customization and system integration pivotal to technical and economic success



- 1. Potential estimated up to 5200 MWh in India
- 2. Bio-methanation relatively flexible technology, with potential for valuable by-products 3. Organic waste supply chain pivotal to technical and economic success















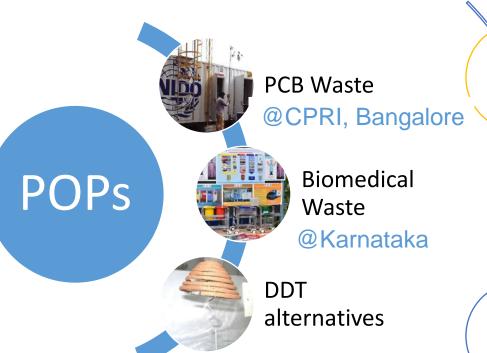




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Environmentally Sound Management of Chemicals and Wastes



Complex technologies, with high investments, environmental risks and long construction and installation period

Customized environmental/waste regulations to be developed and implemented

End-users/waste owners largely unaware and need to be brought on board

















Cleantech Innovation and Entrepreneurship

Facilitation of Cleantech Development and Deployment



ACCELERATOR PROGRAMME

Turning innovators into cleantech start ups



CHALLENGE PROGRAMME

Pulling research and technology

US\$1M

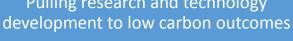


US \$ 7 M+





























Towards Eco-Industrial Parks

Optimizing water and energy use and reuse between companies in industrial park

Using secondary resources (from industries, city, region, etc.) in industries







Preliminary assessments conducted in Andhra Pradesh and Telangana













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Sustainable Cities: Planning and Municipal Services

Sustainable Urban Planning and Management



Partnership and Knowledge Platform



Investment Projects and Technology Demonstration





Low Carbon Infrastructure and Services

- ---> Energy systems and smart grids
- Renewables and industrial energy efficiency
- --- Low-carbon urban mobility
- Reduce hazards and develop energy recovery from waste streams

Urban Industrial Systems

- ---> Green value chains and cluster approaches
- ---> Eco-industrial parks and urban industrial symbiosis
- ---> Resource efficiency and cleaner production
- ---> Food-security, safety and agro-processing

Innovative City Solutions

- ··· Clean tech and smart city solutions
- ---> Start-up incubators and entrepreneurship
- --> Foreign and local investment promotion
- Creative and cultural industries development

Sustainable Cities

Hubs of Innovation, Low Carbon Industrialization and Climate Action



@Guntur, Mysore and Vijayawada















UNIDO Regional Office in India

New Initiatives

Automotive Components

Lean Manufacturing

Productivity & Innovation

Pulp & Paper

Technology Pilots (liquor heat treatment, membrane filtration)

> Productivity Assessments

Tanning & Leather **Processing**

Clean Tech Pilots

Training (sustainable leather, OH&S)

















Thank You

www.unido.org
https://open.unido.org/projects/in/overview

















