Presentation on

Embedding Sustainability Into Manufacturing Plant

By

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At

Chief Sustainability Officers Forum
5th March 2020, TERI, Gual Pahari, Gurugram.
UPL is committed to reduce 30% environmental footprint by 2025.
Structured Approach Towards Sustainability

At UPL, we adopted structured approach towards sustainability

Environment
- Environmental Management
- Operational Efficiency
- Energy, Water & Waste

Economic
- Corporate Governance
- Financial Results
- Customer Care

Social
- HR
- Safety
- SDGs

Triple-Bottomline approach included in our strategy.

Launched Sustainability Website for UPL.

Published Annual Sustainability Report.

60% DJSI score & 63% FTSE score has improved in 2019.

Membership

At UPL, we adopted structured approach towards sustainability
Environmental Sustainability

Environmental Policy & Management Systems
- Environmental Policy
- Target Setting
- Budgeting
- Monitoring

Operational Eco-Efficiency
- CO2 Reduction
- Solid Waste Reduction
- Water Reduction
- Wastewater Reduction

Environmental Footprint Reduction
- CO2 Reduction
- Solid Waste Reduction
- Water Reduction
- Wastewater Reduction

Environmental Compliances
- 100% Environmental Compliances

Sustainability Reporting
- Annual Sustainability reporting
The United Nations adopted the “Agenda 2030” with a total of 17 Sustainable Development Goals (SDGs) in September 2015 to end poverty, protect the planet, and ensure prosperity for all. We have identified 5 priority SDGs for UPL.
Working with farmers in 130+ countries to reduce crop loss & post harvest loss. As on date global food loss & waste is 1.6 billion ton which is equivalent to $1.2 trillion.

60% plants are ZLD
In last 2-years, we reduced:
- 30% CO2
- 20% Water
- 38% Wastewater
- 25% Waste

Innovative Technology
- OH Radical
- MBBR
- DAF
- Scaleban
- FO
- Volute

Sourced 20 MW renewable power through green power purchase agreement.
15% energy comes from renewable sources in our largest two plant.

Trained 2.3 millions farmers to reduce crop loss & post harvest loss.
Sustainable New Effluent Treatment Technology

**Scale Ban**
Implemented at Unit 1, Ankleshwar in 2019 to recycle ETP treated water into cooling tower upto 250000 ppm TDS. This will reduce water demand in our plants.

**Volute**
Implemented at Unit 5, Jhagadia in 2018 for efficient dewatering of ETP sludge. This will help us in efficient management of sludge dewatering in our operating plants.

**OH Radical**
Implemented at our Columbia plant in 2019 to treat high TDS (TDS: 70000 ppm) effluent. This will help us in treating high TDS effluent without use of chemical.

**FO Technology**
Implementation going on at Unit 1, Ankleshwar for efficient treatment of high TDS & low COD effluent stream. This will reduce power consumption.

First among chemical company in world implemented above wastewater treatment technologies
Stream Identification & Segregation

- Biological treatment is techno-economic best treatment technology.
- Performance of biological treatment start getting effected at TDS > 5000 ppm.
- Stream identification & segregation is best way for techno-economic optimum solution.

We have implemented **Stream Identification & Segregation** for better wastewater treatment.
Major UPL Sustainability Initiatives By 2025

**Target**

- Reduce 30% Environmental Footprint from Baseline 2015-16
- Source 80% Raw Material from Sustainable Sourcing
- Zero Dependency on Tanker & Ground Water
- Enhancing Food Security

**Action Plan**

**SDG 12: Responsible Consumption and Production**
- Reduce 30% sp. Water consumption
- Reduce 30% sp. CO2 emission
- Reduce 30% sp. Solid waste disposal
- Reduce 30% sp. Wastewater discharge.

**SDG 7: Affordable and Clean Energy**

**SDG 12: Responsible Consumption and Production**
- Integrate social, ethical and environmental performance factors into the process of selecting suppliers.
- Become member of TFS (Together for sustainability)

**SDG 9: Industry, Innovation and Infrastructure**
- Enhance supply water
- Use 100% treated wastewater
- Sourcing treated wastewater from Municipal body
- Use rain water
- 100% use of treated sewage water

**SDG 2: Zero Hunger**
- Enhance production of food loss reduction product
- Create fresh food value chain.
- Educate Farmers to take measures for food loss reduction.

**SDG 4: Quality Education**

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**SDG 4: Quality Education**
Thank You

Contact

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