

Presentation on

Embedding Sustainability Into Manufacturing Plant

By

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At

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WORLD LEADER IN ORGANICS, BIOLOGICALS & NATURAL PRODUCTS FOR THE FARMER.

5th

Largest
Agrochemical
Company
Globally

UPL is Logo Holder of



138+

Number of
Countries
Presence

UPL is committed to reduce 30% environmental footprint by 2025

Structured Approach Towards Sustainability

Environment

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

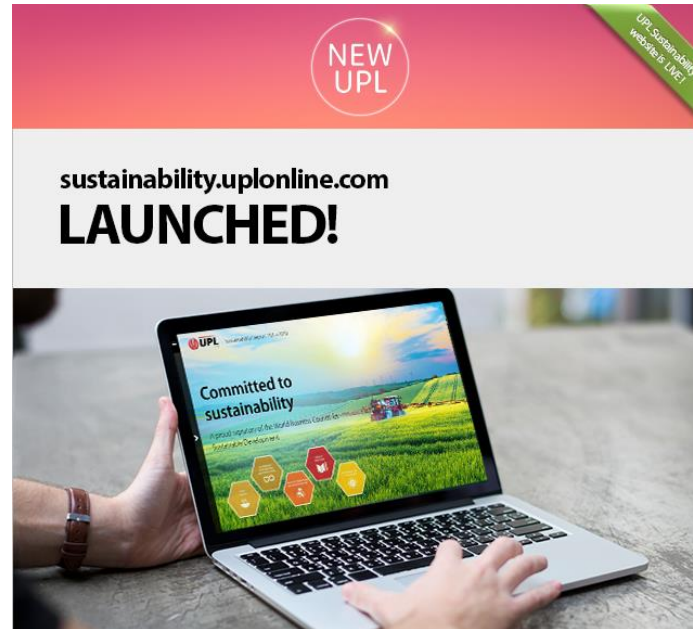
Economic

- 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 Compliances

- 100% Environmental Compliances



Sustainability Reporting






- Annual Sustainability reporting

Priority SDGs For UPL

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.



UPL Progress Report On SDGs

<p>2 ZERO HUNGER</p> 	<p>12 RESPONSIBLE CONSUMPTION AND PRODUCTION</p> 	<p>9 INDUSTRY, INNOVATION AND INFRASTRUCTURE</p> 	<p>7 AFFORDABLE AND CLEAN ENERGY</p> 	<p>4 QUALITY EDUCATION</p> 
<p>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.</p>	<p>60% plants are ZLD In last 2-years, we reduced: 30% CO2 20% Water 38% Wastewater 25% Waste</p>	<p>Innovative Technology</p> <ul style="list-style-type: none"> • OH Radical • MBBR • DAF • Scaleban • FO • Volute 	<p>Sourced 20 MW renewable power through green power purchase agreement. 15% energy comes from renewable sources in our largest two plant.</p>	<p>Trained 2.3 millions farmers to reduce crop loss & post harvest loss.</p>

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.

	Green Stream	Yellow Stream	Red Stream
Stream			
Quality	0<TDS<5000 0<COD<10000	5000<TDS<100000 0<COD<20000	TDS>100000 COD>20000
Quantity	60%	30%	10%
Technology	ASP/MBBR	FO/OH/ Scaleban	MEE/CWAO/ Boomtube/GET

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	<ul style="list-style-type: none"> • Reduce 30% sp. Water consumption • Reduce 30% sp. CO2 emission • Reduce 30% sp. Solid waste disposal • Reduce 30% sp. Wastewater discharge. 	<ul style="list-style-type: none"> • Integrate social, ethical and environmental performance factors into the process of selecting suppliers. • Become member of TFS (Together for sustainability) 	<ul style="list-style-type: none"> • Enhance supply water • Use 100% treated wastewater • Sourcing treated wastewater from Municipal body • Use rain water • 100% use of treated sewage water 	<ul style="list-style-type: none"> • Enhance production of food loss reduction product • Create fresh food value chain. • Educate Farmers to take measures for food loss reduction.
SDG	 			 

Thank You

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