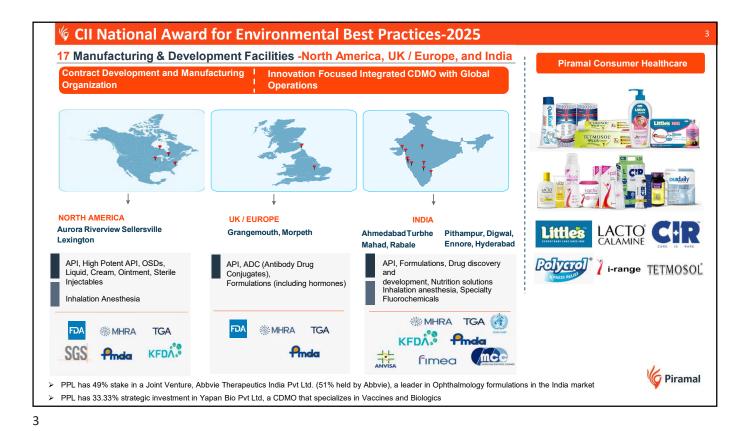
CII National Award for Environmental Best Practices-2025 Piramal Pharma Limited -Digwal Figure 1: Piramal Piramal

Occation Address: Piramal Pharma Limited, Digwal (Village), Kohir (Mandal), Sangareddy (District), Telangana 502321, India.

CII National Award for Environmental Best Practices-2025 **Piramal Pharma - Phases of our Evolution** 1988 2010 2020 2022 **Piramal Healthcare** Piramal Enterprises Ltd. Piramal Pharma Ltd. Domestic Formulations CDMO **Piramal Pharma Financial Services** Pharma Solutions (CDMO) Complex Hospital Generics (CHG) **Nicholas** СОМО Wholesale Lending Laboratories Critical Care (CHG) Piramal Consumer Healthcare (PCH) Complex Hospital Generics Retail Lending OTC (PCH) Piramal Consumer Healthcare Alternative AUM JV with Abbvie JV with Abbvie JV with Abbvie Other Investments Diagnostic Services Strategic Investment in Yapan Bio ☐ Piramal Pharma demerged from Entered the pharma Significantly scaled up the pharma businesses since Created scalable and space through the differentiated pharmaceutical Piramal Enterprises acquisition of Nicholas company over two decades ☐ PPL listed on BSE and NSE on Laboratories in 1988 ■ Built a large well diversified Financial Services business 19th October 2022 Sold the Domestic Series of M&As, JVs Formulations business to Subsidarized pharma businesses into PPL and raised ☐ This enabled simplification of and Alliances and Abbott in 2010 fresh capital from Carlyle corporate structure and facilitate various organic each entity to pursue their growth Sold Diagnostic Services to initiatives Strengthened the balance sheet through multiple capital strategies with sharper focus Super Religare Laboratories raise initiatives in 2010







CII National Award for Environmental Best Practices-2025 Submitted SBTi Reduction Targets Short term (up to 3 yrs) Medium term (4-6 yrs) Long term (> 6 yrs) 53.141 Identified levers for -2117 28,141 -2011 Long Term -893 Scope 1+2 Emissions, tCO,e ISTS: Inter State -4.5% -3.6% -2% Transmission System VPPA: Virtual Power Purchase Agreement, I-RECs: -23,980 International 25,000 Renewable Energy -45.1% 29.301 Certificates -55% ESS: Energy Scope 1 Emissions Storage System (Pumped Hydro/ Scope 2 Emissions Battery Storage) Energy Efficiency Implemented (incl Solar rooftop Baseline emission: FY 21-22 Energy Efficiency Solar Rooftop Boiler Coal to biomass 165 kWp) CapEx 40 108.9 Savings Lakhs / (Premium) 25.1 17.4 7.7 80 Capex in Mn INR, Savings/ (Premium) in Mn INR/yr The above CAPEX and Savings/(Premium) range is tentative estimate Piramal

CII National Award for Environmental Best Practices-2025

Biomass Boiler Conversion



Trigger:-Senior & Middle Management sustainability target to cut Scope 1 & 2 GHG by 42% by 2030.

Uniqueness:- First large-scale pharma facility to replace coal with biomass briquettes; ~24,000 tCO₂e reduction/year; 17% total site emissions cut; award-winning

Planned vs Actual:- Planned: Jan 2024 - Dec 2024; Actual: Commissioned early

Major Milestones vs Roadmap

- Boiler modification completed Q3 2024
- Switch from coal to biomass Dec. 2024
- Efficiency boost from 79→ 82% by Q2 2025
- Achieved 14,811 tCO₂e reduction & ₹42L savings in 7 months.

Note:- CY-25 & FY-25 Data up to July-2025

165 kWp Rooftop Solar Plant



Trigger:-Middle Management - reduce reliance on coal-based grid electricity & improve OPEX efficiency

Uniqueness:- Rapid high-impact results; 359.1 MW clean energy generated in <3 years; zero downtime with 3-inverter stable operation; ~ ₹29L savings achieved.

Planned vs Actual:- Planned: Nov 2023 - Mar 2024; Actual: Commissioned between Nov 2023 - Apr 2024 (on time).

Major Milestones vs Roadmap

- System installation & grid sync Q4 2023 • Consistent daily output (444-558 kWh)
- with zero alarms • Q1-Q2 2025 output tripled vs 2024
- By Jul 2025: 269 tons CO2, 146 tons coal saved

Sludge Moisture Reduction by PD



Trigger:- Operating Level – persistent sludge handling issues (70% moisture, rainy season leaks, high TSDF cost)

Uniqueness:- First adoption of Paddle Dryer in pharma ZLD/ETP; sludge moisture cut from 70% → 15%; disposal reduced by 74%; sludge reused as fuel in cement industry.

Planned vs Actual:- Planned: Apr 2023 - Mar 2024; Actual: Installed Apr 2023, fully operational by Jul 2023

Major Milestones vs Roadmap



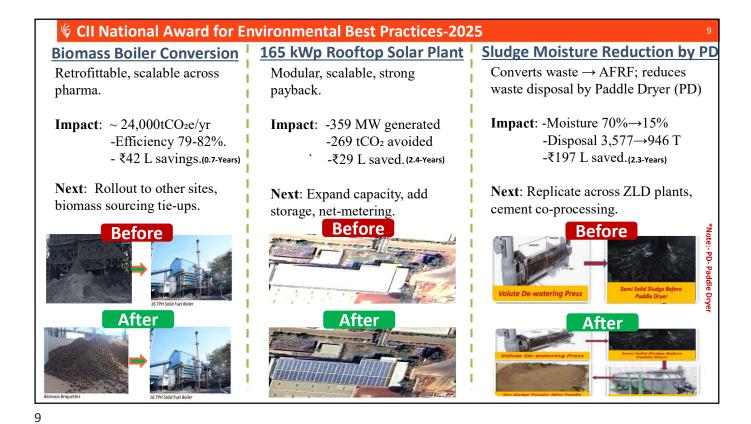
- Installation & commissioning Q2 2023
- Achieved 74% sludge reduction every year.
- ₹197L OPEX savings over 2.4 years
- 20 tCO₂e avoided by Jul 2025
- Continuous 24x7 operations across monsoons

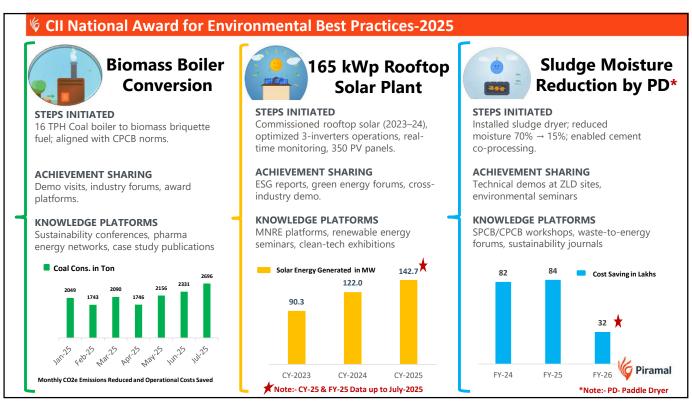
Note:- PD- Paddle Dryer



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CII National Award for Environmental Best Practices-2025 **Benefit Category Biomass Boiler Conversion** 165 kWp Rooftop Solar Plant Sludge Moisture Reduction by PD* Cleaner air, reduced coal use Community leadership in clean Cleaner environment, better hygiene People / Society (SDG 3, 7, 13) energy (SDG 7, 13) (SDG 3, 6, 12) Award recognition boosts pride Green initiative motivates employees Relief from sludge-handling stress Moral / Motivation (BRSR Principle 1 & 8) (BRSR Principle 3) (BRSR Principle 3) Training in biomass handling Solar O&M skill-building Training in waste-to-energy tech (SDG Skill Upgradation (SDG 8) (SDG 4, 8) 8, 12) Attitude Shift / Climate responsibility mindset Renewable-first culture Compliance ownership & eco-care (BRSR Principle 6) (BRSR Principle 6) (BRSR Principle 6) Development Stronger brand & stakeholder trust regulators/investors (BRSR Principle 7, Transparency with Industry benchmark in circular Others economy (SDG 9, BRSR Principle 1) (SDG 12, BRSR Principle 6) 8) 12 RESPONSIBLE CONSUMPTION 13 CLIMATE ACTION SDG Icon Details -*Note:- PD- Paddle Dryer







CII National Award for Environmental Best Practices-2025 **Environmental Performance vs Industry** Energy Company CO₂ Reduction Water/Waste Efficiency Performance Position (tons/year) Management Improvement PIRAMAL ZLD + Sludge ~24.269 Solar Energy Exceeds PHARMA Dryer

Financial Performance vs Benchmarks Industry Piramal Performance Parameter Annual OPEX ₹40-60 L ₹42 L+ ₹29L + ₹197 L Exceeds Savings **Boiler Efficiency** 82-85% 82% Sensibly Solar Generation 4-5 kWh/kWp/day 5.1 kWh/kWp/day Exceeds Exceeds Sludge Reduction 40-50% Exceeds System Reliability 95-98% 100% (Zero Alarms)

99 MEN **Piramal:** Specialized biomass training Solar O&M expertise • Sludge handling vs basic

waste management

MATERIAL **Industry Leading:** • High-CV biomass (>3000 kcal)

 Tier-1 solar panels Dried sludge as AFRF vs conventional fuels

METHODS Best Practice: Real-time monitoring Preventive maintenance

• 24/7 operations

TECHNOLOGY Advanced Systems:

 Biomass auto-feeding Grid-tied solar inverters

Paddle dryer with steam-auto

MEASUREMENT Data-Driven: Monthly CO₂ tracking

Daily generation logs

 Real-time efficiency vs annual estimates only

National Action Plan for Climate Change (NAPCC) MNRE (Ministry of New and Renewable Energy) Business Responsibility and Sustainability Reporting (BRSR)

COMPLIANCE WITH NATIONAL STANDARDS & FRAMEWORKS

MNRE Solar Standards

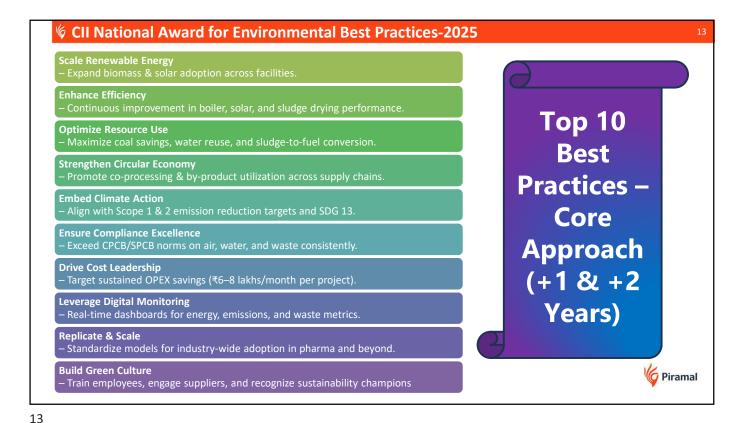
HWM Guidelines 2016

BRSR Framework

NAPCC Guidelines

Co-processing Guidelines

CPCB Emission Norms



CII National Award for Environmental Best Practices-2025 TECHNICAL INSIGHTS OPERATIONAL INSIGHTS **STRATEGIC INSIGHTS BIOMASS BOILER BIOMASS BOILER BIOMASS BOILER** Automated ash handling systems and Fuel quality standardization is critical Long-term vendor contracts and local comprehensive training reduce - implementing monitoring systems sourcing ensure reliable biomass maintenance burden and operational improved efficiency from 79% to 82% supply and reduce logistics risks downtime. **SOLAR PLANT SOLAR PLANT SOLAR PLANT** Real-time monitoring and preventive Structured O&M contracts with Early regulatory engagement with calibration prevent inverter issues scheduled cleaning protocols MNRE/DISCOM accelerates approvals and ensure consistent grid maintain optimal panel performance and net metering implementation synchronization vear-round **PADDLE DRYER PADDLE DRYER PADDLE DRYER** Preventive maintenance schedules Indirect steam heating provides SPCB/CPCB alignment on consent and adequate spare stock ensure consistent sludge drying (70% to 15% $\,$ conditions prevents compliance issues minimal downtime and consistent moisture) enabling 24/7 operation and ensures smooth operations performance

