

APChemi

Waste to Value, for People & Planet.

Since 2007



**Build
Bankable
Pyrolysis
with
Industry
Powerhouse.**

PYROLYSIS LEADERS

17 Years | 47+ Plants | 179M Kg Processed

12 Patents | 3,000+ Jobs Created | ISCC Plus Certified

5,000,000 liters/year fractionally vacuum-distilled PyOil

Plastic, Tyre & Biomass Pyrolysis + Purification Technology

Supported by:



Government Of India



**Shell
E⁴**

12 Patents



Solutions

- **5KTA (Kilo Tonnes per Annum) Pyrolysis Oil Purification and Supply**
- **Pyrolysis and PyOil Purification**
 - Pilots
 - Technology
 - BEP, FEED, DED
 - Installation and commissioning
 - Operations
- Project Management Consultancy (PMC)
- Troubleshooting

Core Technologies

- **Plastic Pyrolysis & Oil Purification** – Patented technology for refinery-grade ISCC Plus oil
- **Tyre Pyrolysis** – Pyrolysis and upgradation for **Recovered Carbon Black (rCB) and cCB**
- **Biomass Pyrolysis** – Producing biochar for carbon sequestration



Ongoing Projects (2025):

- Own Operations
 - 6KTA pyrolysis oil purification plant in India with planned pyrolysis capacity expansion supported by Department of Science and Technology, Govt of India
 - ISCC Plus in progress



- 5 x 500 TPD (Tonnes Per Day) biomass pyrolysis plants: post-agricultural biomass waste conversion projects – Biochar India Pvt Ltd – a JV collaboration with PRESPL
- Large-Scale Industrial Projects
 - **100TPD x 5 biomass pyrolysis CDR plants as BOO:**
www.biocharind.com
 - 40 TPD biomass pyrolysis plant for sugarcane waste processing (Asia)
 - 300 TPD woody biomass to biochar for metallurgical applications (Asia)

- 15 TPD plastic advanced recycling plant (Middle East)
- Chemical recycling (Global petrochem companies)
- Natural gas pyrolysis for graphene and hydrogen production (North America)
- Eggshell Pyrolysis (Europe)
- **Research & Development**
 - Indo-Danish Green Hydrogen Project in collaboration with Aalborg University - Denmark
- **Troubleshooting of 3rd-Party Technology**
 - 20 TPD pine-cone biomass pyrolysis plant (Africa)
 - 40 TPD bamboo biomass pyrolysis plant (Asia)

Completed Projects (Since 2007)



- 3 ISCC Plus Certified Pyrolysis Plants accelerating chemical recycling.
- 45 Pyrolysis Plants for Plastic, Tyre and Biomass
 - **Engineered 42 TPD (12.6 KTA) plastic pyrolysis plant for UK client in compliance with European CE and ATEX Standards**
 - Engineered pyrolysis plant for Equate Petrochemicals Kuwait in compliance with CE + ATEX

- **Pyrolysis Oil Processing Plants**
 - 2 pyrolysis oil purification plants
 - 2 pyrolysis oil distillation plants
- **Pilot Plants Supplied:**



- 2 clients in Europe
- University of Melbourne, Australia; King Saud University, Saudi Arabia
- Central Institute of Plastics Engineering and Technology, India
- **Proof of Concept (POC) Projects**
 - Conversion of ETP/STP biosludge to activated charcoal for a refinery
 - Plastic waste to bitumen, chemical recycling, biochar CDR

Awards & Recognition

- 🏆 Indo-Danish Green Hydrogen Research Grant (\$2.4M)
- 🏆 Funded by Government of India (\$0.5M)
- 🏆 FICCI's Disruptive Circular Technology Award
- 🏆 KPMG's Circularity Award
- 🏆 Sacyr Foundation Innovation Award
- 🏆 ACT Clear Air India Challenge Winner (\$150K)

APChemi



Ecosystem Partners and Support:



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