Grow Tech

ISO 9001:2015 CERTIFIED

Turning Waste into Value.

Industrial process-plant engineering, waste-to-energy systems, and biomass conversion solutions — designed, fabricated, and commissioned in-house.

- Tyre Pyrolysis
- Plastic Pyrolysis
- Biochar & Biomass
- Waste-to-Energy
- Solar Recycling
- Solid Waste Mgmt

Who We Are

Grow Tech is a Faridabad-based engineering company with deep expertise in the design, manufacture, and commissioning of industrial process plants, waste-to-energy systems, and thermal conversion solutions. We serve clients across India seeking to extract value from waste streams.

Our strength lies in combining rigorous process engineering with in-house fabrication — giving clients a single, accountable partner from concept through commissioning, backed by our ISO 9001:2015 quality management system.

Multiple
Product Lines

Turnkey
EPC Delivery Model

ISO
9001:2015 Certified

In-House
Fabrication

REGISTERED OFFICE

SCF-66, Phase 2, Sector 16A
Faridabad – 121006, Haryana, India
+91 89538 45249

MANUFACTURING UNIT

Plot No. 3, Gali No. 1
Dabua Pali Road, Pali
Faridabad, Haryana, India

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Our Product Lines

Five specialised thermal-conversion platforms, plus fully bespoke process engineering.

Tyre Pyrolysis Plants

Recovers pyrolysis oil, carbon black, steel wire & syngas from end-of-life tyres.

Plastic Pyrolysis Plants

Converts HDPE, LDPE, PP & PS waste into diesel-range pyrolysis oil.

Biochar & Biomass Plants

Turns agri-residue and wood waste into biochar, syngas & bio-vinegar.

Waste-to-Energy Systems

Converts MSW, refuse & biomass into steam, heat, or electricity.

Solar Panel Recycling

Recovers silicon, metals & glass from end-of-life photovoltaic modules.

Solid Waste Management

Automated sorting, RDF production & material recovery systems.

Tyre Pyrolysis Plants

Turning scrap tyres into predictable profit centers

PROCESS

- **Thermal Cracking:** End-of-life tyres are thermally cracked in a completely oxygen-free environment.
- **Batch & Continuous:** Tailored configurations engineered for high-throughput, safe, site-specific operation.
- **Complete Engineering:** Comprehensive P&IDs, equipment layouts, structural steel and custom piping.
- **Syngas Utilization:** Recovered combustible syngas is recirculated as process heat, minimizing external inputs.

RECOVERABLE OUTPUTS

- **Pyrolysis Oil:** A high-demand, high-calorific industrial liquid fuel source.
- **Carbon Black:** Extracted fine carbon powders used across manufacturing and chemical sectors.
- **Steel Wire:** Cleanly separated and ready for direct scrap recycling markets.

Pyrolysis Oil Recovery | Carbon Black | Steel Wire Extraction | Syngas Utilization

Plastic Pyrolysis Plants

Turning plastic waste into high-value fuel

COMPATIBLE FEEDSTOCK

- **HDPE / LDPE:** High- and low-density polyethylene waste streams.
- **PP & PS:** Polypropylene and polystyrene process off-cuts and rejects.
- **Mixed Waste Feed:** Segregated and mixed plastic streams handled by one system.
- **Closed-Loop Emissions:** Advanced environmental controls ensure clean, safe operation.

KEY OUTPUTS & VALUE

- **Diesel-range Oil:** High-quality pyrolysis oil converted from mixed plastic waste.
- **Circular Energy:** Recovered syngas is recirculated as process heat, cutting utility costs.
- **Waste Valorisation:** A profitable alternative to landfilling for municipalities and industry.

Plastic-to-Fuel | HDPE / LDPE / PP | Mixed Waste Feed | Diesel-range Oil

Biochar & Biomass Plants

Turning biomass waste into high-value carbon and energy solutions

ELIGIBLE FEEDSTOCKS

- **Agricultural Residues:** Crop straws, husks, stalks, and regional farming by-products.
- **Wood Waste:** Sawdust, wood chips, bark, and forestry processing off-cuts.
- **Biomass Feedstocks:** Diverted organic solid streams and clean industrial wood waste.

HIGH-VALUE OUTPUTS

- **Biochar:** Stable, carbon-rich soil amendment for regenerative agriculture.
- **Syngas:** Clean combustible gas recirculated to minimize external utility costs.
- **Bio-Vinegar:** Liquid co-product extracted for organic farming and pest management.

Agricultural Residue | Biochar Production | Carbon Sequestration | Bio-vinegar

Waste-to-Energy Systems

Turning municipal, industrial & solid waste into power, steam and heat

ELIGIBLE WASTE STREAMS

- **Municipal Solid Waste:** Local household waste, organic components, and non-recyclable fractions.
- **Industrial Refuse:** Secondary manufacturing by-products, packaging, and structural scrap wood.
- **Biomass Feedstocks:** Low-density crop straws, processing off-cuts, and agricultural husks.

ENERGY RECOVERY OUTPUTS

- **Clean Process Steam:** High-pressure steam supplied to manufacturing boilers or heating lines.
- **Thermal Heat & Hot Water:** Fluidized hot-air loops recirculated into active thermal drying.
- **Co-generated Electricity:** Grid-injectable or plant-powering electricity via turbine integration.

Thermal Treatment | Steam Generation | Municipal Solid Waste | Energy Co-generation

Solar Panel Pyrolysis & Recycling

Turning end-of-life photovoltaic waste into high-value raw materials

ELIGIBLE FEEDSTOCKS

- **End-of-Life PV Modules:** Decommissioned utility, commercial, and residential solar panels.
- **Damaged & Defective Cells:** Post-industrial rejects and panels broken during logistics.
- **Thin-Film & Silicon Scraps:** Solar manufacturing waste and trim off-cuts.

HIGH-VALUE OUTPUTS

- **Recovered Silicon & Metal:** High-grade silicon wafers, silver, copper, and clean aluminum frames.
- **Pure Glass Fraction:** Undamaged, cleanly separated sheet glass ready for direct recycling.
- **Syngas & Heavy Oil:** Condensed fuels and combustible gases reused to power the plant.

Resource Recovery | Carbon Offsets | Silicon & Metal | Circular Economy

Solid Waste Management Systems

Integrated segregation, RDF production & eco-friendly processing

ELIGIBLE INPUTS

- **Municipal Solid Waste:** Mixed household waste, organic fraction, paper, and cardboard products.
- **Industrial & Commercial Refuse:** Production packaging, polymers, scrap woods, and textile off-cuts.
- **Institutional Solid Waste:** Non-hazardous organic and dry paper-based materials.

HIGH-VALUE RECOVERY

- **Refuse-Derived Fuel:** Shreddable, high-calorific fuel ideal for cement kilns and power plants.
- **Sorted Recyclables:** Clean, separated streams of plastics, ferrous metals, and paper.
- **Organic Compost Feedstock:** Separated organic fractions ready for biological aerobic composting.

Automated Sorting | RDF Production | Material Recovery | Landfill Diversion

Our End-to-End Delivery Process

One accountable partner, from initial enquiry through to final handover.

01

Feasibility & Scope

Feedstock analysis, sizing, and site layout requirements.

02

Detailed Engineering

P&IDs, equipment layouts, and thermal mass balances.

03

Procurement & Fabrication

In-house manufacturing of reactors and process piping.

04

Erection & Installation

Structural alignment and mechanical interconnection on-site.

05

Commissioning & Trials

Pressure testing, calibration, and cold & hot runs.

06

Training & Handover

Operating manuals, safety drills, and full technical handover.

Why Choose Grow Tech?

ISO 9001:2015 Quality

Certified quality management covering design, fabrication, commissioning & documentation.

In-House Fabrication

Dedicated manufacturing at Pali, Faridabad ensures quality control and faster delivery.

Turnkey EPC

One contract, one team, one accountable partner from design through handover.

Domain Expertise

Deep specialist knowledge in pyrolysis, gasification, and thermal treatment.

After-Sales Support

12-month warranty, spare parts, O&M manuals, and on-site technical assistance.

Sustainable Impact

Every product line converts a waste stream into value, cutting carbon and landfill.

Carbon Sequestration

Biochar locks atmospheric carbon into stable soil deposits for centuries.

Waste Valorisation

Converting tyres, plastics & biomass into marketable fuels and energy.

Circular Economy

Recovered syngas is recirculated as process heat across every plant.

Let's Build a Cleaner, Sustainable Tomorrow.

Reach out to our engineering team in Faridabad to schedule a feasibility assessment for your waste-processing requirements.

Registered Office

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Manufacturing Unit

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Get in Touch

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