



AKAYA ENGINEERING LLP

(A Joint venture with **DEHU**® Group)



Visit Our Website

www.akayaengineering.com

WELCOME TO OUR COMPANY

Akaya Engineering is an ISO 9001-2015 Certified Company, established by Group of Professional Engineers having Extensive Experience in Steam Boilers, Power Plants and Air Pollution Control Equipment, having expertise in the field of Boiler & Power Plant Efficiency Improvement, Sustainable Operation, Trouble Shooting, Fuel Conversion, Renovation and Modernisation.



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At AKAYA ENGINEERING our commitment to delivering safe, efficient and environmentally friendly energy is unwavering. Your feedback and collaboration are essential as we strive for continuous improvement and innovation.

As we look to the future, we remain dedicated to enhancing our services and exploring new technologies to meet your evolving needs. Together, we can navigate the challenges of the energy landscape and create sustainable solutions that benefit us all.

We look forward to our partnership and achieving great things together.....

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Narendra Goel
(Managing Partner)

OUR INFRASTRUCTURE



- **Delhi office : Sales & Marketing/Admin/Engineering**
- **Manufacturing Unit 1 : In Pune**
- **Upcoming Manufacturing Unit in Muzaffarnagar**



AKAYA ENGINEERING AND IT'S ASSOCIATE COMPANIES OFFERING

EPC & POWER PLANTS

WITH OVER 30 YEARS OF OPERATIONAL EXPERIENCE AND MORE THAN 400 PROJECTS IMPLEMENTED BY AKAYA ENGINEERING TEAM IS A PLAYER FOR EXCELLENCE IN THE PROCESS AND POWER INDUSTRY PROVIDING SOLUTIONS TILL 15 MW POWER PLANTS.

SPARES / O&M / STEAM AT COST

AKAYA ENGINEERING OFFER AN EXTENSIVE SELECTION OF SPARE PARTS FOR STEAM BOILERS, WE TAKE PRIDE IN SATISFYING OUR CUSTOMERS. OUR PRICING, DELIVERY TIMING, PRODUCT QUALITY AIMS TO ACCOMMODATE VARIOUS BUDGETS WHILE MAINTAINING HIGH-QUALITY STANDARDS. OUR SPARE PARTS ARE RENOWNED FOR THEIR PRECISION AND DURABILITY.

STEAM BOILER RANGE

AKAYA ENGINEERING WITH ITS RICH HANDS ON EXPERIENCE OF MORE THAN THREE DECADES IN BIOMASS / FOSSIL FUELS COMBUSTION TECHNOLOGIES IN ASSOCIATION WITH TECHNICAL EXPERTS WHO HAVE WORKED WITH BIG INSTITUTIONS / COMPANIES HAVE JOINTLY DESIGNED AND DEVELOPED OUR SPECIALIZED STEAM BOILERS.

AIR POLLUTION CONTROL EQUIPMENTS

AKAYA ENGINEERING PROVIDES A COMPREHENSIVE RANGE OF POLLUTION CONTROL EQUIPMENT NECESSARY FOR COMPLIANCE WITH VARIOUS POLLUTION CONTROL STANDARDS AND INDUSTRIES LIKE STEEL, SUGAR, TEXTILE, PHARMACEUTICAL, AGRO, OIL & GAS.

AKAYA ENGINEERING **WASTE TO ENERGY** POWER PLANTS SOLUTIONS

Waste to energy (WTE) is an innovative process that converts non-recyclable waste materials into usable forms of energy, such as electricity, heat, or fuel. This approach not only addresses waste management challenges but also contributes to sustainable energy solutions

AKAYA ENGINEERING PROVIDES ONE STOP SOLUTION FOR **WASTE TO ENERGY PLANTS...**



**PRE-PROCESSING /
SEGREGATION OF FUEL**



POWER PLANT



**AIR POLLUTION
CONTROL EQUIPMENT**

AKAYA ENGINEERING **WASTE TO ENERGY** POWER PLANTS SOLUTIONS

Why Akaya Engineering For Waste (Municipal Waste) To Energy Plants ?

- With years of expertise in the field, our company has mastered the art and science of firing Waste in Boilers, Our comprehensive approach has led to significant improvements in efficiency, sustainability, and economic performance for our clients.
- Akaya Engineering can cater to customer variable requirements like New Boilers, Modifications, Engineering Services
- With more than 7000 Tons of **Municipal Solid Waste** Burning in our Boiler Daily. We have completed numerous successful New and Retrofitting projects across various industries, helping our clients transition to Waste with minimal disruption and maximum benefits.
- India's First Dual Combustion Technology on AFBC + RG Combustion system firing Waste.

Environmental Benefits:

Waste Reduction: Helps divert waste from landfills.

Carbon Footprint: Lower carbon emissions compared to conventional fossil fuels.

Resource Efficiency: Utilizes waste materials that would otherwise be disposed of

Economic Advantages:

Cost Savings: Cheaper than traditional fossil fuels.

Waste Management: Provides a solution for managing municipal and industrial waste.

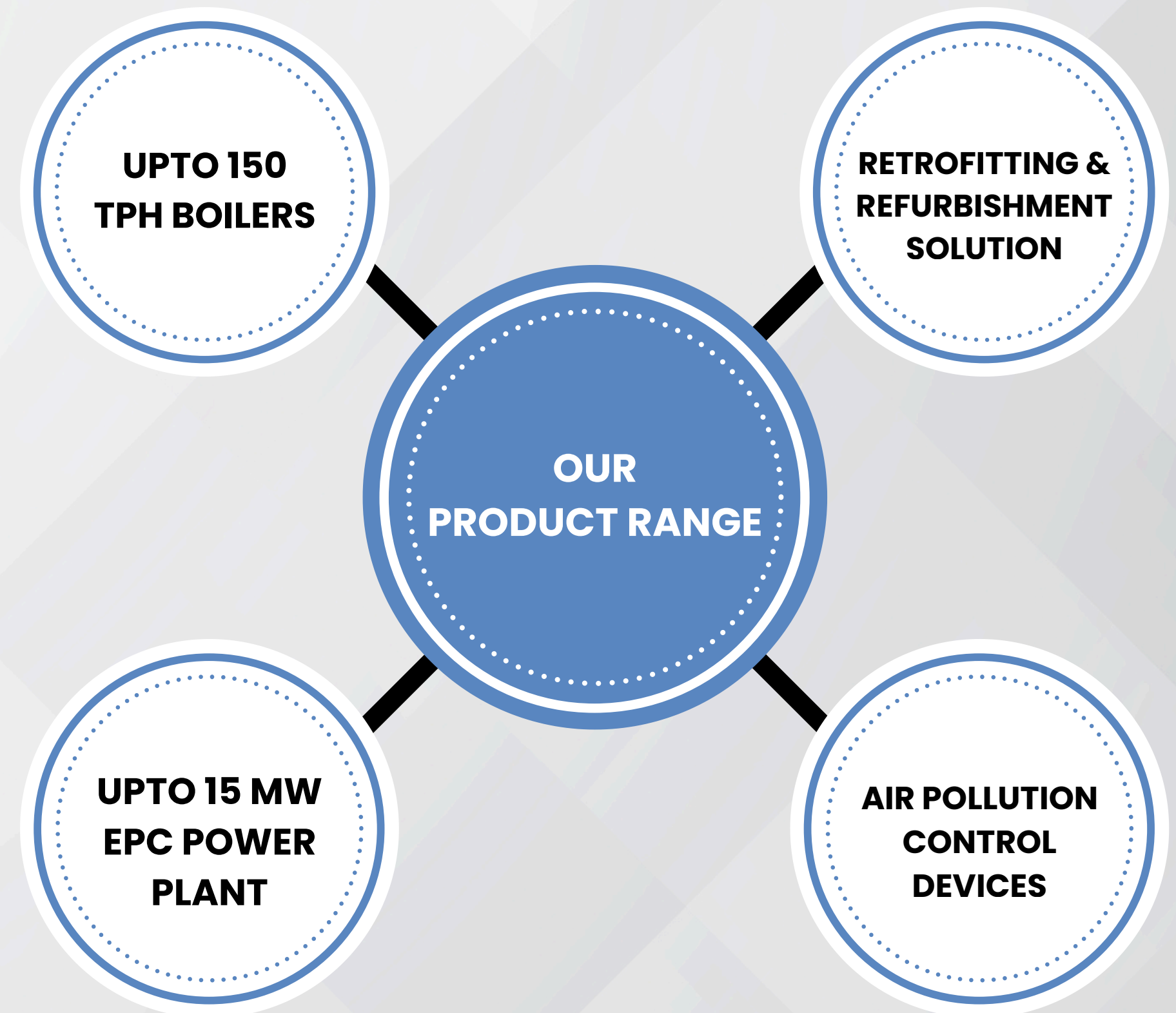
Regulatory and Policy Support:

Many governments support RDF use through incentives and regulations to promote renewable energy and sustainable waste management.



Products & Services

- EPC Power Plants
- Steam Boilers
- Pressure Parts
- Non Pressure Parts
- Air Pollution Control Equipment
- Steam at Cost
- Retrofitting & Renovation
- Operation & Maintenance
- Modernization & Efficiency Improvement
- Fuel Conversion & Capacity Enhancement



COMPREHENSIVE SOLUTIONS FOR STEAM BOILERS

Akaya Engineering draws on over two decades of extensive, hands-on experience with a diverse range of biomass and fossil fuels, including bagasse, wood chips, sawdust, coal, rice husk, and oil and gas combustion technologies Pan World. Collaborating with technical experts who have served prominent institutions and companies, we have jointly designed and developed our specialized steam boilers.

Akaya Engineering has Successfully Met the Diverse Needs of Various Industries with Its Steam Boiler Solutions:

- **Sugar Industry**
- **Paper**
- **Steel**
- **Oil and Gas**
- **Chemical**
- **Textile**



AIR POLLUTION CONTROL EQUIPMENT

Controlling pollution in Waste firing is crucial to ensure compliance with environmental regulations and to minimize the environmental impact of RDF combustion. Effective pollution control strategies involve a combination of pre-combustion, combustion, and post-combustion measures to manage emissions of pollutants such as particulate matter (PM), sulfur oxides (SO_x), nitrogen oxides (NO_x), carbon monoxide (CO), dioxins, furans, heavy metals, and other toxic compounds.

Akaya Engineering specializes in Providing comprehensive Solution considering different Regulations :

1) Particulate Matter Control

- Electrostatic Precipitators (ESP)
- Baghouse Filters
- Cyclone Separators

2) Sulfur Oxides (SO_x) Control

- Flue Gas Desulfurization (FGD)

3) Nitrogen Oxides (NO_x) Control

- Selective Non Catalytic Reduction (SNCR)

4) Activated Carbon and Lime Dosing System



**ELECTRO STATIC
PRECIPITATORS**



BAG FILTER



SCRUBBER

SPARES

Effective spare parts management serves as the cornerstone for ensuring the smooth and reliable operation of a plant, ultimately facilitating the achievement of designated production goals. Factors such as operational strategy, inventory control, and lead times are critical elements that warrant careful consideration in this process.

BOILER ADD-ON & SPARES

- Single Cyclone Dust Collector
- High Efficiency Cyclone
- Flue Gas Desulphurizer
- Water Bath Scrubber
- ESP
- Economisers
- Water Pre-heater
- Air Pre-heater
- Air Blasters / Soot Blowers
- Smart Panel (SCADA)
- Online TDS Control
- Steam Accumulator
- Super Heaters
- PRDS
- De-aerator
- Blow-down Recovery Vessel
- Blow-Down tank
- Sampling Coolers
- Feed Water Pumps
- Ash Handling System (Mech. & Pneumatic)



OUR PARTNERS IN PROGRESS



and many more.....



CORPORATE OFFICE

B-132, Ground Floor, Ganesh Nagar,
New Delhi - 110018
E-mail : marketing@akayaengineering.com



MANUFACTURING UNIT 1

PUNE OFFICE / WORKS : Gat No. 390, Dehu-Alandi Road,
Near Talawade IT Park, Pune-411062, Maharashtra, India



UPCOMING MANUFACTURING UNIT

Khasra No: 587/2, Jansath Road, Village
Sikheda, Muzaffarnagar
Contact at: +91-78350 52921
E-mail : info@akayaengineering.com