

**GETABEC**

**BIOMASS WASTE  
TO ENERGY  
SOLUTIONS**





## GETABEC BIOMASS WASTE TO ENERGY DIVISION

**GETABEC** is one of the famous **Biomass Renewable Energy Solution Companies** in Asia, founded in 1983. Getabec strive for excellence and quality by controlling all aspects of the project and after sales in-house with their own internationally recognized manufacturing facilities, engineering expertise and service teams.



- **Creativity at its Best**

With a strong in-house engineering design department and in cooperation with Ekrohrkessel (ERK) from Germany, GETABEC can deliver the best high efficiency compact solutions for you.

- **Invention Drives the World**

GETABEC continually strives with R&D on developing new renewable technologies, including advanced Industry 4.0 solutions. Both in-house and with their European partnerships.

- **Never Be Alone**

Consultancy, Design, Engineering, Projects, EPC, Installation, Commissioning, Preventative Maintenance, Operations, Servicing and Breakdown Hotline. GETABEC is always there for you.

## OUR VISION



### OUR MISSION

To convert biomass and industrial waste into clean energy with high efficiency, high technology, low maintenance solutions while adding industrial intelligence to provide the customer with information to manage, predict and report on current and future requirements.

Long term relationships with our Customers is our Goal !

### OUR STRENGTHS

With over three decades in business and partnerships spanning Asia, Europe, and the Americas, we bring professional global solutions that can meet any local requirements.

No problem is too big or too small for us !

## TAILOR MADE SOLUTIONS

### POWER & COGENERATION PLANTS

1 MW<sub>e</sub> to 20 MW<sub>e</sub> EPC Solutions

Our biomass waste to electricity technology gives you high reliability and low maintenance solutions that allow you to maximize your ROI. Cogeneration solutions gives extra flexibility to tap steam for other local processes. Combined with our EPC experience, we can provide a "One-stop, No headache solution".

### STEAM & HOT WATER SOLUTIONS

1 MW<sub>th</sub> to 100 MW<sub>th</sub>, 0.5 to 100 tph, 5 - 100 barg

With a range of technologies, we provide customized solutions to suit many types of waste to industrial steam and hot water energy requirements. Our technological solutions can handle stable process flows, high fluctuation loads, buffer loads, unreliable biomass waste supply and automation to suit the local skill levels.

### THERMAL OIL SOLUTIONS

1 MW<sub>th</sub> to 12 MW<sub>th</sub>

High efficiency thermal oil designs comes with a range of different technologies to suit most budgets. Our range of solutions cater to different requirements from highly autonomous systems, minimal stop times, low maintenance & operational costs, flexible biomass waste fuel to backup burners on biogas or oil & gas.

### INDUSTRIAL WASTE, RDF & SRF SOLUTIONS

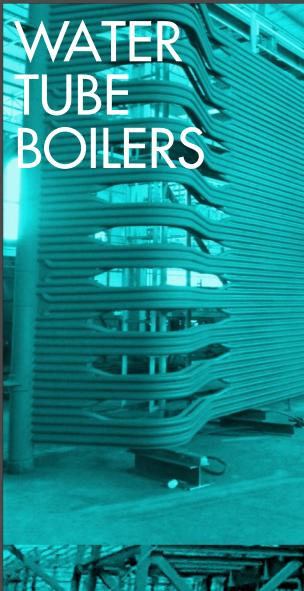
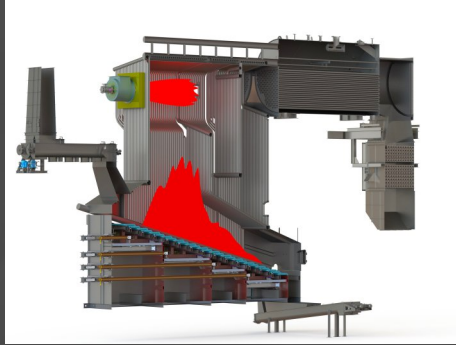
1 MW<sub>th</sub> to 50 MW<sub>th</sub>, 1 to 50 tph, 5 - 100 barg

With a solid understanding and significant experience in this very complex fuel, our approach to this market sector is to work with clients to create a complete working solution. Fuel separation, handling, burning, emission control, online cleaning and ash management requires careful planning and detailed engineering.



OIL GAS & BIOGAS BURNERS, MULTI-MEDIA, MULTI-FUEL, WET OR DRY FUELS,  
ELECTRICITY, CO-GENERATION, COMBUSTION TECHNOLOGY,

## ADVANCED TECHNOLOGY



WATER  
TUBE  
BOILERS



Use the advanced German technology from ERK to build large, high efficiency boilers. Our accredited workshops, guarantee the highest quality.

A fuel-flexible combustion system that gives you full control for burning many combinations of fuels to meet your energy needs over the full lifetime.



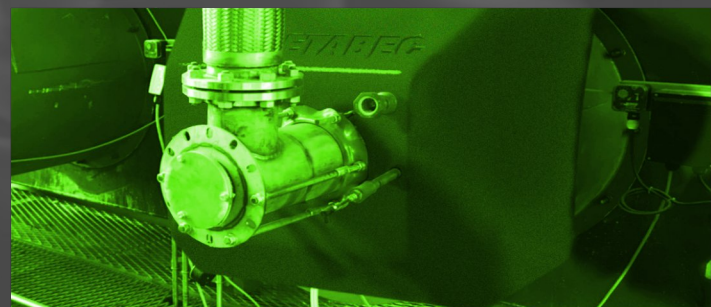
DYNAMIC  
STEP  
GRATE



Improve your plant efficiency and response time with a combi-boiler for solutions <40 tph. A large water surface area and volume ensure you can rely on stable conditions.



COMBI  
BOILERS



BIOGAS  
SUPPORT  
BURNERS

Use your own waste; save cost & energy by adding biogas burners. You'll also be helping the environment !



## MULTI-FUEL

### CREATE YOUR OWN COMBINATIONS OF FUEL SOURCE

The strength of our solutions is the wide range of fuels that can be burnt on the dynamic step grate. Availability of fuels sources will change through the seasons. Also your plant will last 25 years. It is impossible to predict the price and availability of the raw waste materials over such a long time. So it is important you choose a technology that can adapt to your continually changing fuel requirements.

**GETABEC Technology and Service** will ensure your solution will bring you long term fuel flexibility and satisfaction.

#### WOOD PELLETS

Very high calorific fuels with guaranteed consistent LCV and low moisture content. Approx. 6 - 8 mm diameter.

#### WOOD WASTE

This can come in many forms with a wide range of moisture content, LCV, texture and sizes. Bark, wood chips, logs, saw dust, mdf waste.

#### RICE HUSK

Waste from rice mills, this fuel is high in LCV with low moisture content. Its high silica content can be sold in ash with low carbon content.

#### BRIQUETTES

Large blocks filled with agro-waste from the local region. LCV, moisture content and waste type varies a lot.

#### RDF & SRF

Refuse derived fuel (RDF) is pre-sorted municipal solid waste. Solid recovered fuel (SRF) is more refined RDF.

#### CASSAVA

Waste from cassava food processing industries can be used to produce a very stable energy source.

#### CORN COBS

Waste from the corn food production is a reliable fuel source for the generation of heat and steam.

#### PALM WASTE

There are many types of waste byproducts from the palm oil production; Empty fruit bunch, fibers, shells, leaves and trunks.

#### COAL

Used as a primary, secondary or mixed fuel source, all types of coal can be used to help stabilize fuel source and LCV.



AUTHORIZED MANUFACTURER



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