





HISTORY

Design and construction of the world's first industrial incinerator for burning waste and direct drying process applied in the wood industry.

1985

ITI becomes Europe's leading supplier for the design and construction of thermal power plants and industrial power plants. Primary customers: Sonae Group, Amorim Group, Gruppo Frati, Fantoni Group, etc..

80s

908

ITI installs plants in Europe, Oceania, Africa and South America. Our plants and their applications become benchmarks regarding environmental impact and energy production from renewable sources.

00s

ITI designs and manufactures in Italy its first combustion system for urban waste which has a power capacity greater than 50 MW. We enter the market of power plants of small size with biomass combustion and production of 1 MWe.

105

We make in Italy a combustion system for the incinerator Terni-ACEA with the record level of efficiency and completeness of combustion. In 2013 ITI becomes a registered trademark and continues its process of innovation always looking to energy and industrial needs and policies of sustainability.



TO DESIGN INNOVATIVE SOLUTIONS

for energy, industrial and other issues. We always respect and often dictate the highest level standards in the field of plant and energy systems applied to renewable fuels and process waste.

WE ARE PREPARED TO DEFINE

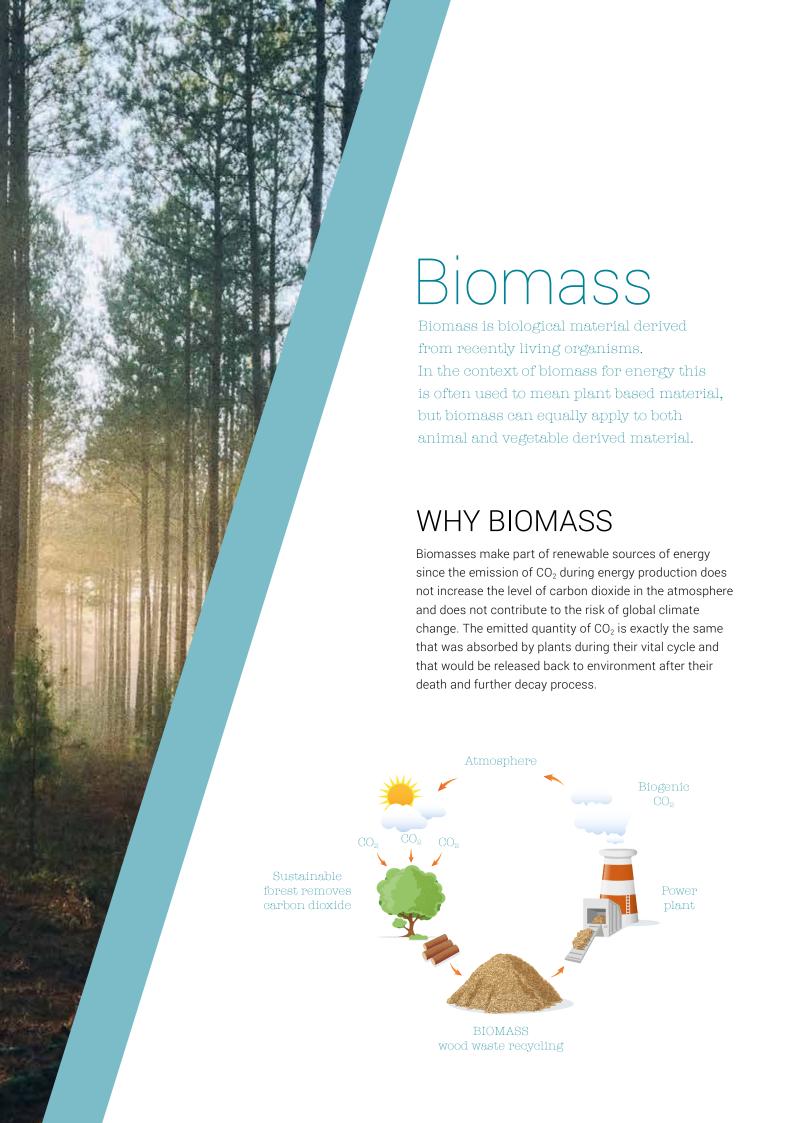
the best solution for each different customer situation regarding heat consumption or fuel quality, with the utilization of our experience in the energy plants technology.

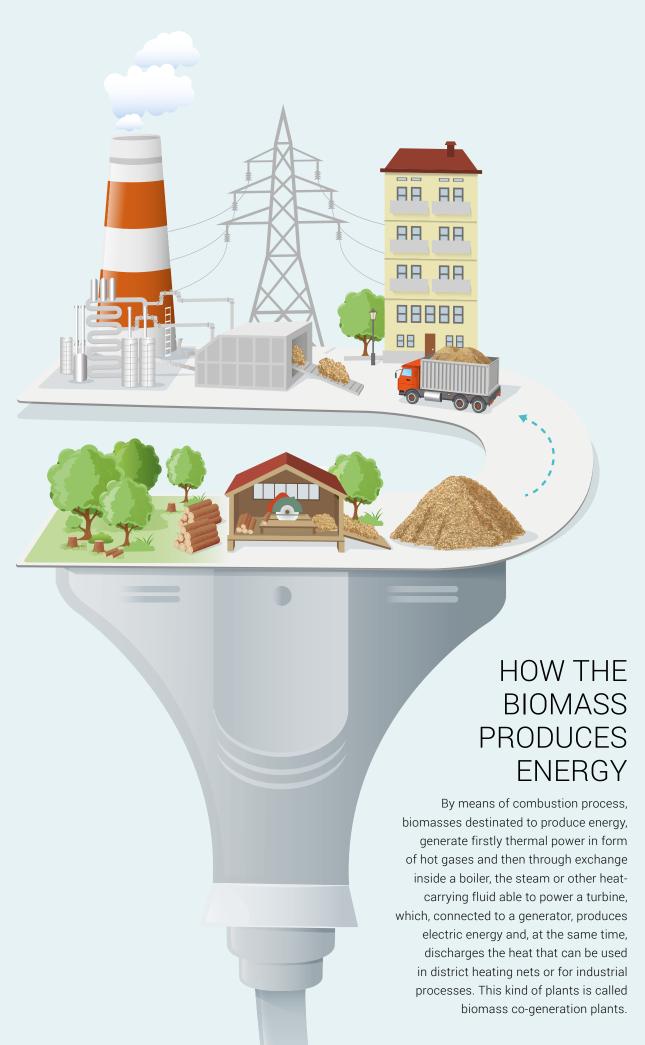
TO BE A REFERENCE FOR OTHERS

with a particular eye to the policies of environmental sustainability, optimization of resources and raw materials as well as to the economic aspects of the process.

TO ACHIEVE OUR TARGETS

we have the support of proved suppliers regarding each part of our plant.









energy production, based on heat recovery deriving from wood waste combustion.

INDUSTRIAL THERMAL PLANTS

Our plants offer high quality and efficiency that are the result of the following factors:

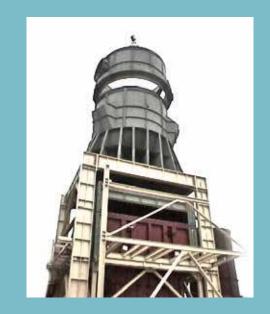
- many years experience in field of thermal plants for wood-industry;
- tailor-made by us engineering and construction of combustion systems;
- proved technology for execution of the plants for thermal oil and steam;
- engineering and development of automatized control system for optimization of plant's efficiency.

COMBUSTION SYSTEM

The core of our plants is combustion system. Since we started from the very first years of wood-panel industry (particle- or fibre-board), we have developed our proper know-how regarding the biomass and wood wastes combustion process.

We supply:

- · feeding systems for furnaces;
- · moving strokers;
- · injector burners for sawdust and flour;
- combined burners for biodiesel/dust and flour;
- · collecting and conveying systems for ashes;
- combustion and post-combustion chambers.





THERMAL OH

Thermal oil technology is widely used for heat transfer in wood-based panels industry.

The plant of this type is used for:

- · heat recovery and distribution;
- thermal oil plant for energy generation by means of ORC turbine units.

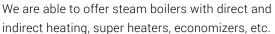


STEAM

ITI's Reference list includes many installed steam generation plants after biomass combustion.

We offer solutions for:

- super heated steam for energy generation by means of turbine;
- saturated steam for industrial use (wooden fibre production; press cycles).









HOTGAS

High efficiency for thermal plant means maximum recovery of heat from exhaust gas from furnace.

We have long experience of utilizing this process for wood drying on particle board, MDF, pellets etc. plants, when the hot exhaust gas after waste wood combustion is directly utilized for drying.

Especially for MDF plants, we have developed our own technology and system, which is characterized by high performances, high efficiency and high safety.



CO-GENERATION PLANTS

According to the guide lines regarding the world wide improvement of the efficiency of the energy production, considering as strategical the biomass combustion to decrease the use of fossil fuels, we have designed and realized several plants with **co-generation system**.

Our special experience in thermal oil system places our company in a primary position for the supply of ORC plants (Organic Rankine Cycle) in connection with turbine units supplied by proven manufacturers.



ADDITIONAL SERVICES

Our experience allows to obtain maximum results both technical and economic in activities related to the exercise of the plants and sometimes requested by customers:

- · optimization of control and supervision systems;
- · organization of the maintenance process;
- · staff training;
- engineering development of the project in relation to authorization issues, environmental, etc.



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