



INNOVATIVE ENERGY SOLUTIONS

**WASTE HEAT RECOVERY UNITS
BIOMASS
BOILERS**

**WASTE-TO-ENERGY
BOILERS** **HEAT RECOVERY
STEAM GENERATORS**

FIRED BOILERS

Custom Designs

Supply

Fabrication

Ongoing Support

Celebrating 20 Years Fueled by Innovation



SON S.r.l. proudly celebrates 20 years as a trusted provider of innovative energy-saving solutions. Established in 2004 by the founder of **CCT SpA**, an industry leader in steam generators for over 40 years, **SON S.r.l.** was created to pioneer a new era in energy production, with a focus on industrial waste heat recovery.

Specializing in products that enhance efficiency and profitability for businesses dependent on thermal and electrical energy, **SON S.r.l.** offers a comprehensive range of solutions, including Waste Heat Recovery Units, Biomass Boilers, Waste-to-Energy Boilers, Heat Recovery Steam Generators and Fired Boilers. Our ongoing commitment to innovation drives us to explore new partnerships, products, and technologies.

In 2020, **SON S.r.l.** reclaimed the CCT name, marking an expansion into service, maintenance, and fabrication. While product development and project design remain at the core of our business, we also offer tailored, end-to-end solutions, providing full support from design and fabrication to post-sales service.

A LEGACY OF ENERGY SOLUTIONS

Via Cremona, 1 - Legnano (MI) - Italy
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www.son-energy.com



www.cctservice.net

**We offer projects and products
that maximize efficiency and minimize emissions**



Custom Designs

We adapt our designs to fit your
Industrial Settings and Operational Requirements.

Supply

We offer a range of WHRUs,
Biomass boilers, Waste-to-Energy Boilers,
HRSGs and Fired Boilers.



Fabrication

We customize and build products in the
workshop of our subsidiary **CCT SERVICE**.

Ongoing support

We follow-up with **CCT SERVICE** to ensure
continued success of all our products.



WASTE HEAT RECOVERY UNITS

Thermal Oil, Superheated Water, Air



HEAT RECOVERY from different INDUSTRIAL PROCESSES

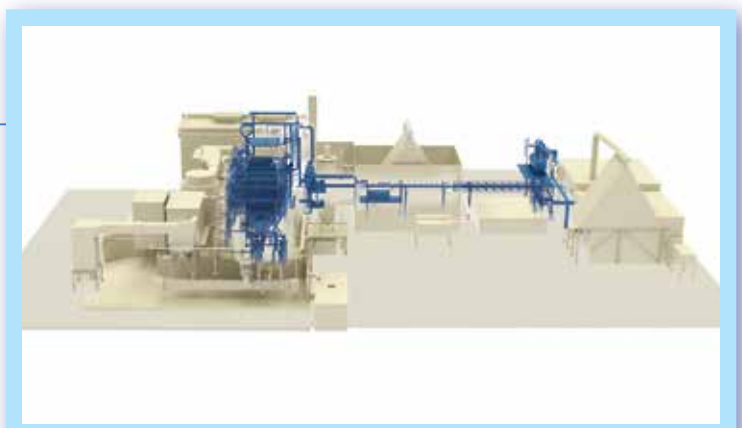
Steel Mill
Paper Mill
Expanded Clay
Biomass
Cement Industry
Carbon Fiber Products

BIOMASS & WASTE-TO-ENERGY BOILERS

Up to 50 MWth High Pressure and Temperature Steam
for Power Generation

MAIN FUELS

Wood Chips, Wood Pellets, Bark,
Waste Wood, Olive Waste,
RDF, MSW, Sorted Waste,
and various types of Biomass



INNOVATIVE ENERGY SOLUTIONS

HEAT RECOVERY STEAM GENERATORS **Up to 40 MWeI,** with or without Post Firing and Fresh Air



HRSO Downstream GT up to 40 MWeI

Licensee of Nooter Eriksen Inc. for design, manufacturing, supply and installation in Italy and European Community.



FIRED BOILERS **Firing Natural Gas, Oil, H2 Fuels**



www.son-energy.com

Reliable WHR Solutions for the Cement Industry

To provide a cost-effective and eco-friendly WHR solution for the cement industry, SON Srl partnered with Kawasaki in 2023. Based on the successful boiler designs of both companies, they have joined their strengths to develop a Thermal Oil Heat Exchanger now tailored for Thermal Oil Circuits powering ORCs.



Expertise in Efficient Primary Heat Exchangers with stable, long-term power output

+ 40 years of Heat Recovery experience in the Cement Industry

776 WHR BOILERS supplied for dust-laden cement flue gas

Combined STRENGTHS

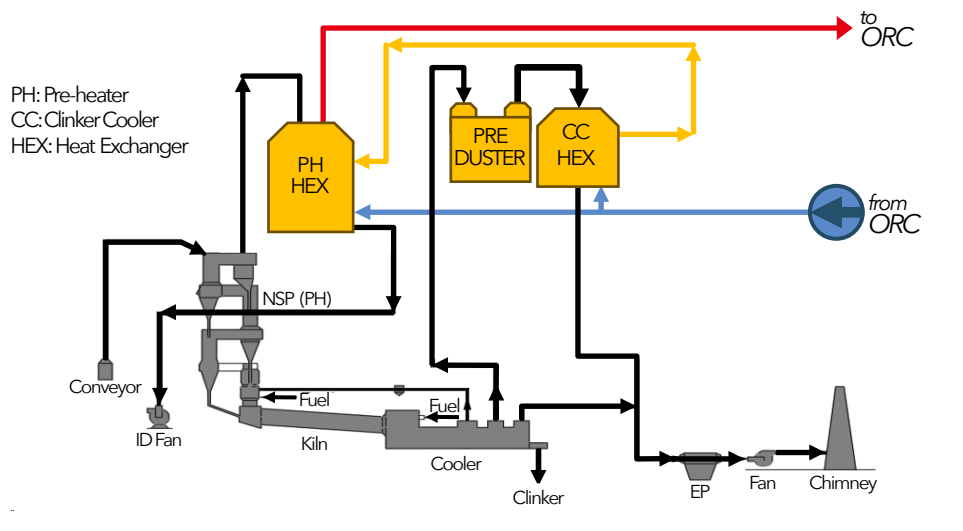


Experience in Heat Exchangers for Thermal Oil Systems and Steam Generators

Expertise in WHR systems across diverse industries in the EU

Manufacturing and Dedicated After Sales support based in Italy

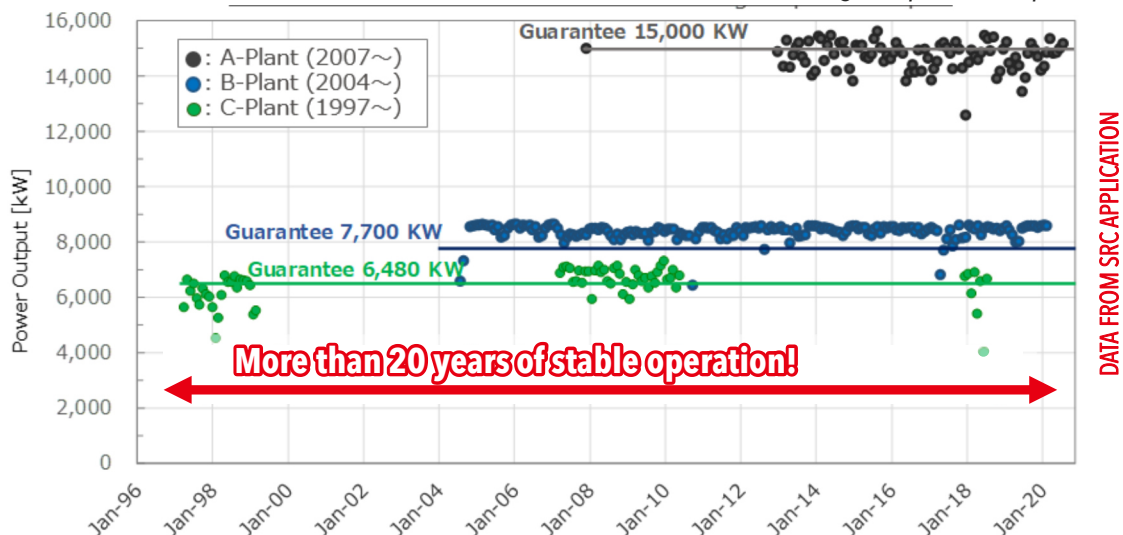
SYSTEM CONFIGURATION



Selection of the most efficient configuration of PH and Clinker Cooler (series, parallel, partial parallel) to be done according to the operating conditions.

Kawasaki Reliable Long-Term Performance

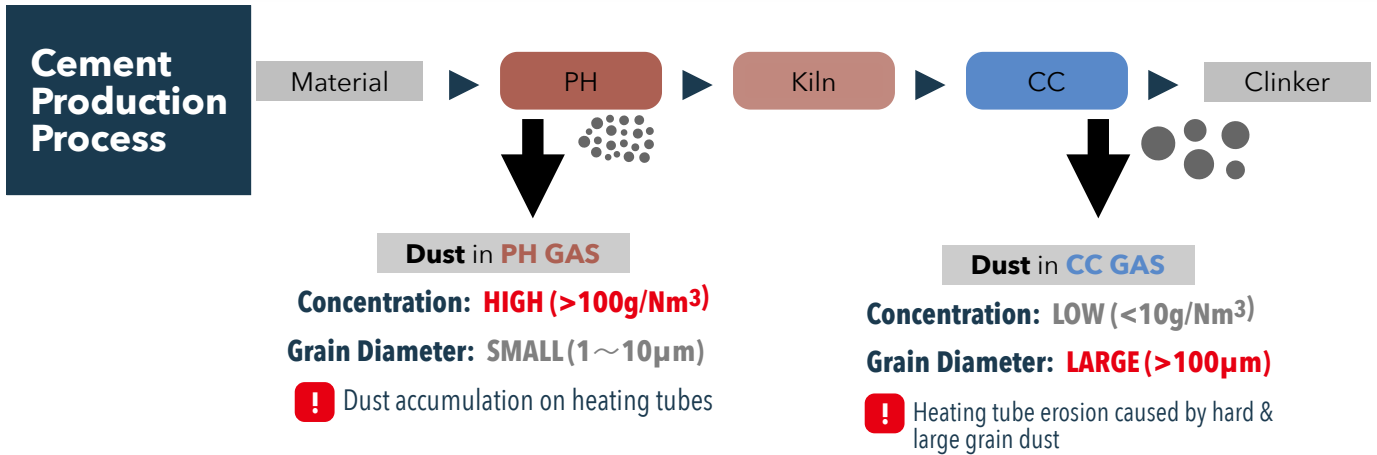
Kawasaki's WHR continues to maintain its original power output



Kawasaki's boiler can maintain stable performance even if boiler is introduced to high concentration of dust in PH gas (10~100 times more than other waste gases.)

Reliable WHR Solutions for the Cement Industry

Understanding dust characteristics is crucial for designing HEX for CEMENT APPLICATION

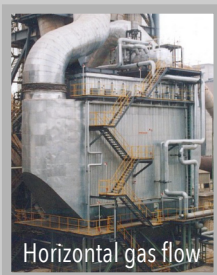


1 PH HEX Key Technology

Effective Dust Removal
from heating tubes
by hammering equipment



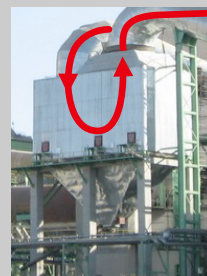
VEGA® Boiler



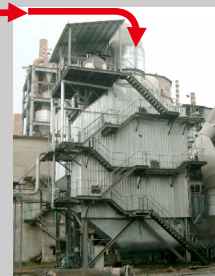
Conventional PH Boiler

2 CC HEX Key Technology

Dust Removal Upstream
of CC HEX



Pre Duster
Sedimentary Type
pre-duster for
very low draft loss



CC Boiler
Efficient
Heat Recovery

Upstream Installation
to prevent tube erosion

Modular Block of VEGA®



Easy Installation!

**Draft Loss
Drop Flue Gas Side**

**Optimized
Structure**

✓ Easy Installation

A MODULAR BLOCK DESIGN
for easy transportation and
installation.

✓ Lightweight & Compact

Compared to a conventional
PH boiler the VEGA® is 40%
smaller and weighs
32% less.

✓ Effective Dust Removal

Stable operation and Easy
maintenance!

EXPERT BOILER SOLUTIONS

From Prefabrication to Installation
Emergency Response
Certified Service



SUPPLY, PREFABRICATE, ASSEMBLE, TEST, CERTIFY AND INSTALL

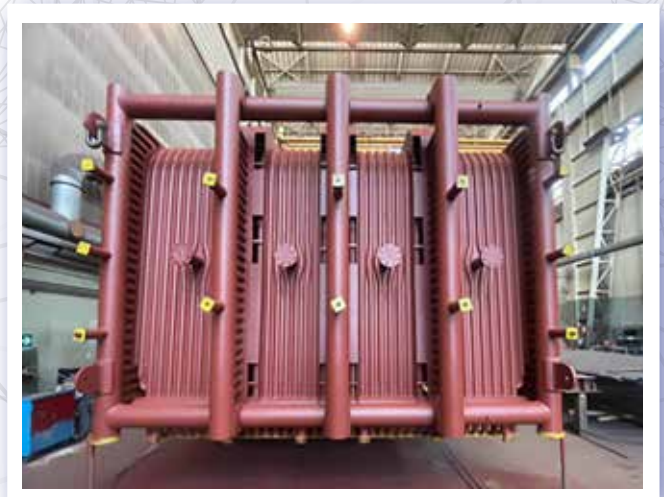
components such as superheater banks, evaporators, economizers, combustion chambers and boiler piping, along with flue gas/steam, air steam and flue gas/water heat exchangers; skid oil & gas vessels.

EMERGENCY RESPONSE SERVICE

with qualified EN/ASME certified personnel, ensuring speed and professionalism to minimize plant downtime.

EXTENSIVE PRODUCT KNOWLEDGE

allows us to service any type of boiler, whether designed for steam energy production for industrial users, district heating, or incineration (biomass-waste)



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