




## Industrial Heat Recovery Condenser

### SARTECH ENGINEERING S. L.

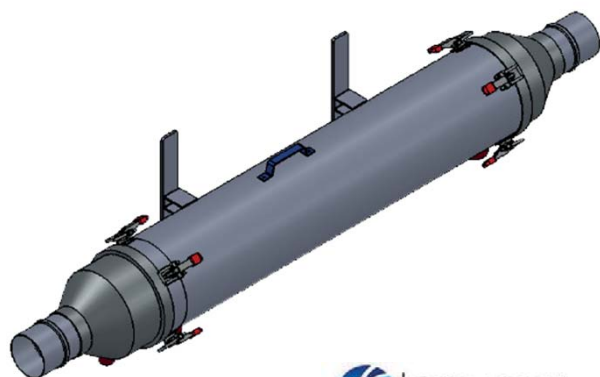
Bº Landeta,c/ Orendaundi nº 7 - Apdo. 1  
20730 AZPEITIA (Gipuzkoa) SPAIN  
Tel: +34 943 157 088 / Fax: +34 943 157 289  
e-mail: [sarralle@sarralle.com](mailto:sarralle@sarralle.com)

A silhouette of an industrial facility with numerous tall chimneys and smokestacks against a cloudy sky.

TECHNOLOGY SOLUTIONS

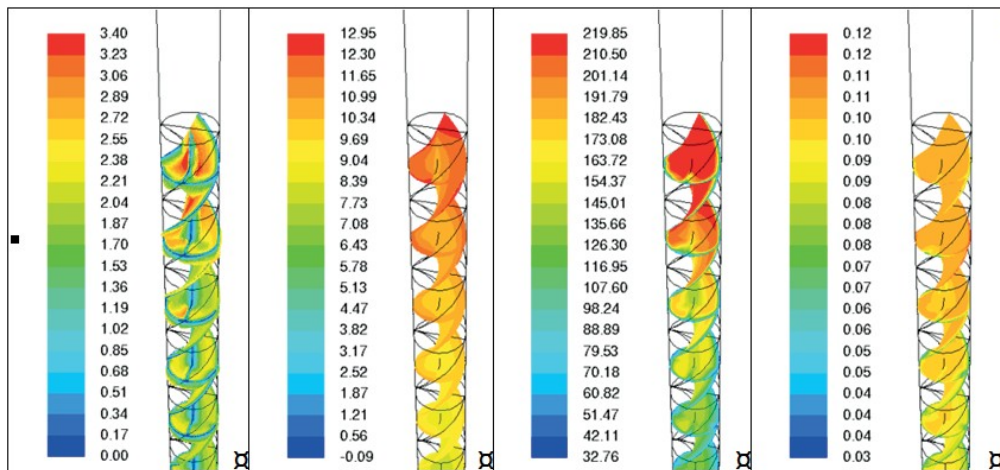
### 1.- CERAMIC COATED BY KERA-COAT

Shell and tube condenser capable of **withstanding extreme conditions.**



Solution based on a shell-tube heat exchanger which allows the condensation of highly corrosive fumes

### 2.- COMPLETE SYSTEM ASSEMBLY ENGINEERING



- ✓ Electricity generation by an ORC cycle.
- ✓ For any need of heat in the industries ("district heating")

"Applying an ORC cycle per MW of recovered heat 0.1 MW of electric power could be generated"

### 3.- INDUSTRIAL EXPERIENCE



Waste to Energy Plant: 50KW condenser in Zabalgarbi (Bilbao)

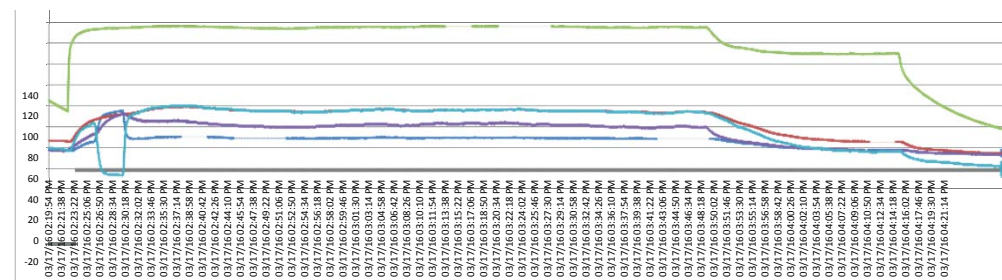
#### 2014

Trials are performed with a condenser prototype of **5 KW** in **ZABALGARBI**. Positive results.

#### 2015

Trials are performed with condenser prototypes of **2 KW** (a pellet boiler) and **50 KW (ZABALGARBI)**. Positive results.

### 4.- ENVIROMENT BENEFITS



■ T water input ■ T water output ■ T fumes input ■ T fumes output ■ Power

Cleaning of the fumes and reduction in the release of polluted fumes to the atmosphere

Patented technology



Energy recovery



Prevention of the acid rain



Reduction of emissions