



Solar Heat for Industrial Process towards Food and Agro Industries commitment in Renewables

SHIP2FAIR Decarbonising agro-food process industries with solar heat

Webinar 1, Zoom (Online), 20/05/2021



This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 792276.
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Pessione OC overview FY 2021



Role of Pessione

- Is the **cradle of Martini** and the producer of **flagship brands** within the Bacardi portfolio
- **Center of excellence** and **proficiency** for production, development and industrialization of **Vermouths, Sparkling wines** and **Bacardi bottling**



It all began with three men...

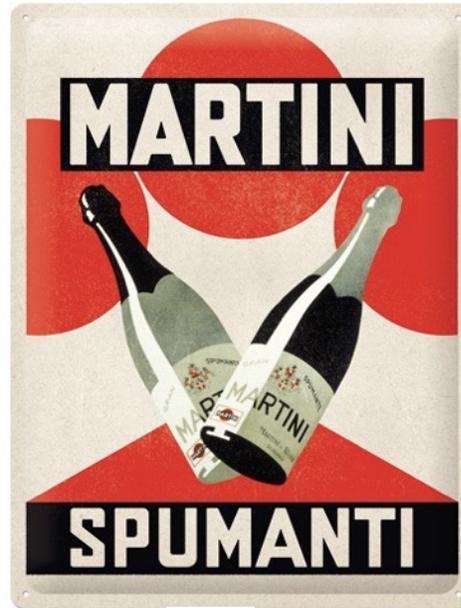
- July 1st, 1863: Martini & Sola was officially born in Turin. Alessandro Martini and Teofilo Sola are the founders
- Luigi Rossi, skilled herbalist and wine technician, enters the company with a participating share
- In 1864 production moves to Pessione, a strategic centre for his closeness to the railway line that links up Turin and Genoa





Key data of the plant

3 families of products



Current situation - Key energy data of the plant

Methane gas cabinet



Boiler 1 ↓



2,044 GWh/y ↓

Boiler 2 ↓



3,951 GWh/y ↓

Boiler 3 ↓

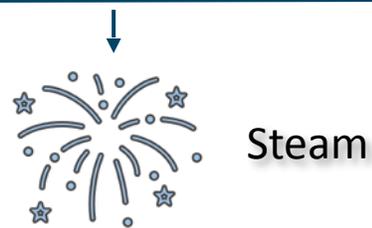


4,148 GWh/y ↓

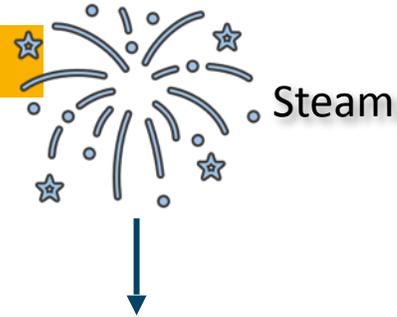
CHP ↓



1,202 GWh/y ↓



Where steam is used - Users



Environments heating

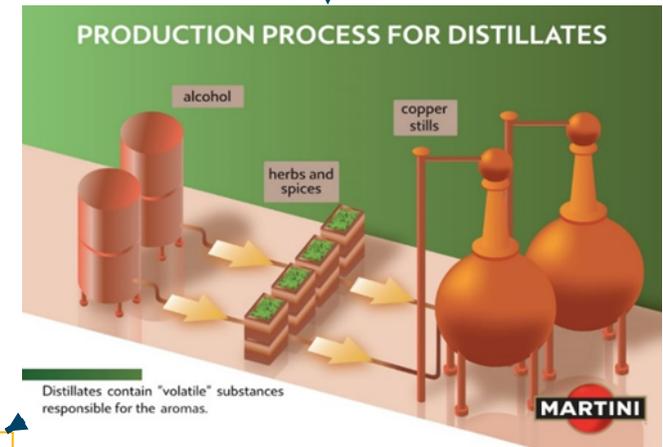


65%

Bottling process



Bulk process



35%

New energy source

SOLAR FIELD SPECS

Hot Water Density	912,3 kg/m ³
Hot Water Specific Heat	4,3 kJ/kg/K
Solar Field Peak Efficiency	56%
Safety Factor	113%
# Of Panels	298 #
Gross Area	596 m ²
Installed Area	1.073 m ²
Solar Field Peak Power	329 kW
Panels' Tilt Angle	35 °

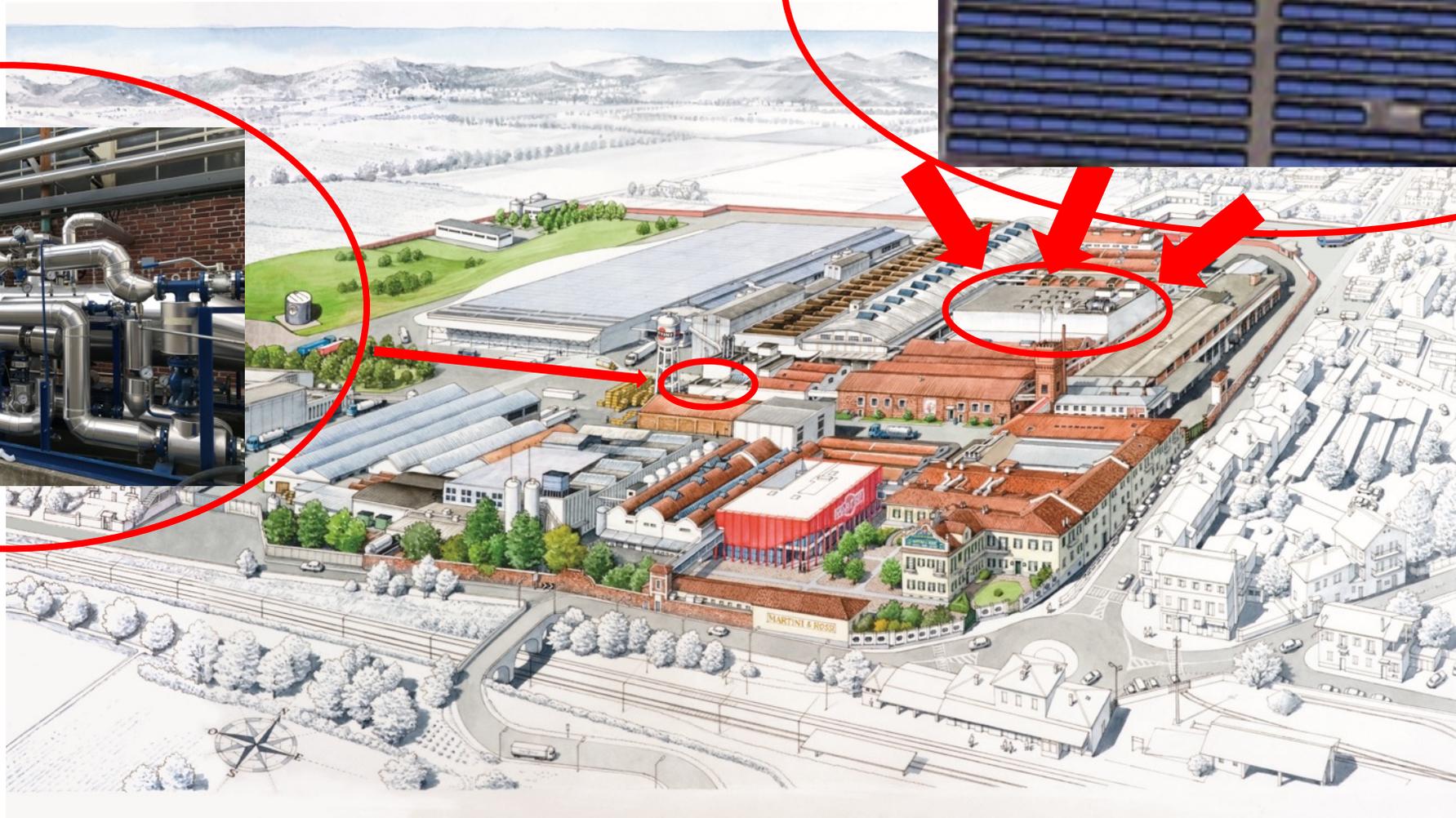


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Where

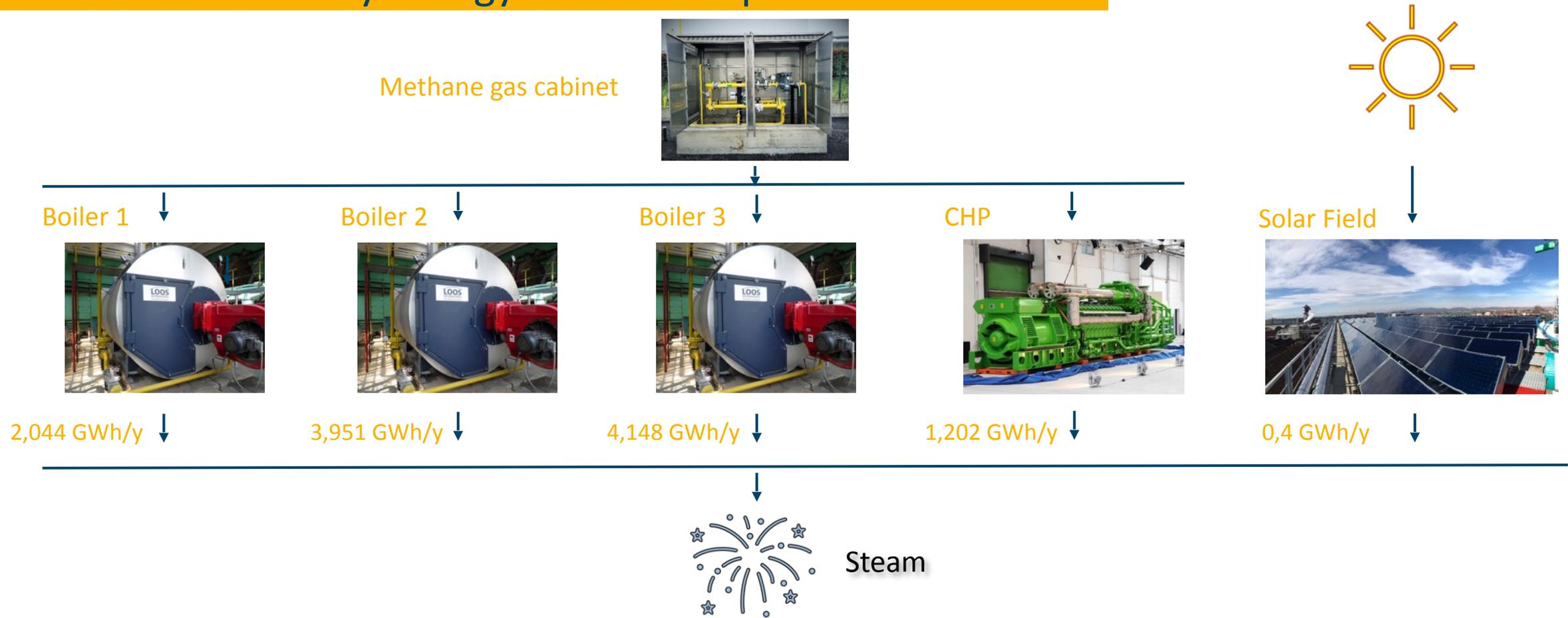


Where steam will be produced

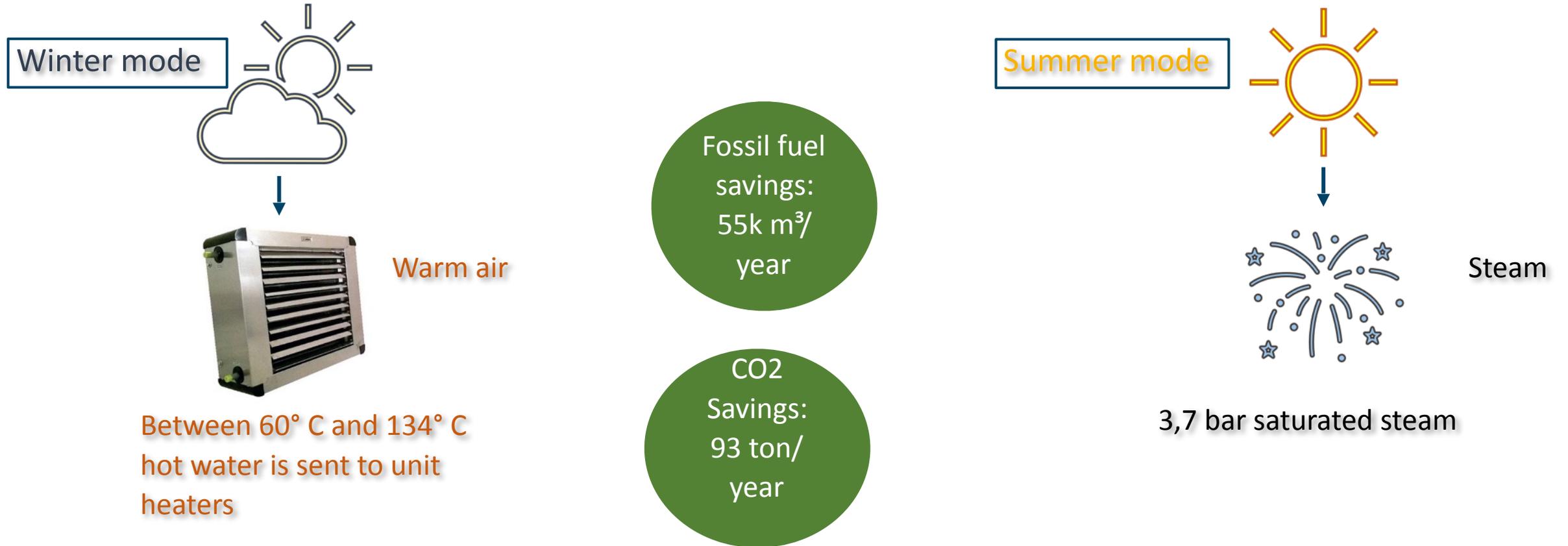


Where solar field is

Future situation - Key energy data of the plant



How the system will work: 2 different operation modes





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Thank you!

MARTINI



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