DEMO CASE

miloil

Waste heat makes cool fuels

THE FUELS INDUSTRY

MIL OIL HELLAS SA is a company producing initially Biodiesel and electricity form biogas. It was founded in 2000 in Thessaloniki, Greece. This circular economy model produces significant waste heat currently unutilized.

THE INTERVENTION

To harness this massive thermal output, a dedicated piping system captures the excess heat from the CHP units. This heat is then diverted to a unique double evaporation absorption chiller, an ORC unit (to generate additional electricity), and a local biodiesel plant. This setup perfectly demonstrates how CHP units can go beyond delivering just electricity and heat, to indirectly providing highly efficient cooling.

THE IMPACT ON ENERGY CONSUMPTION

BS-NOVA will provide the plant with an evaporator/absorber chiller, and TVP Solar will install a new solar thermal system with HVFP collectors.
After the intervention, MILOIL will reach electricity savings of up to 763 MWh_{el}/year and avoid 253 tCO_2/year of emissions.

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