

Gaztelueta, September 2021

KAENER



COLEGIO
GAZTELUETA
IKASTETXEA

INTELLIGENT SOLUTIONS FOR HEATING AND COOLING INSTALLATIONS

KAENER CHALLENGE

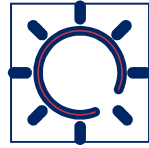


WE IMPROVE ENERGY
EFFICIENCY OF ALL FACILITIES.

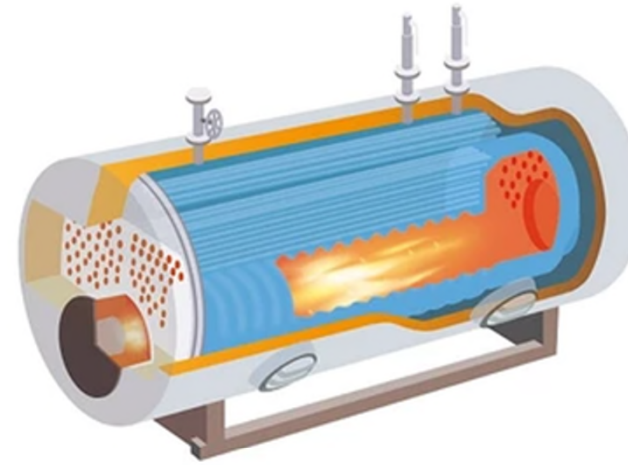
- Founded in 1981 by technical personnel who came from both installation companies in the residential sector and installation and maintenance companies in the industrial sector, especially steam boilers.
- The objective of the company is the design and implementation of comfort and industrial facilities based on maximum energy savings.
- Supplier of:
 - Thermal installations in buildings
 - Refrigerator supplier company
 - Liquid petroleum products
 - Others



CHALLENGE



The school wants to renew the heating installations



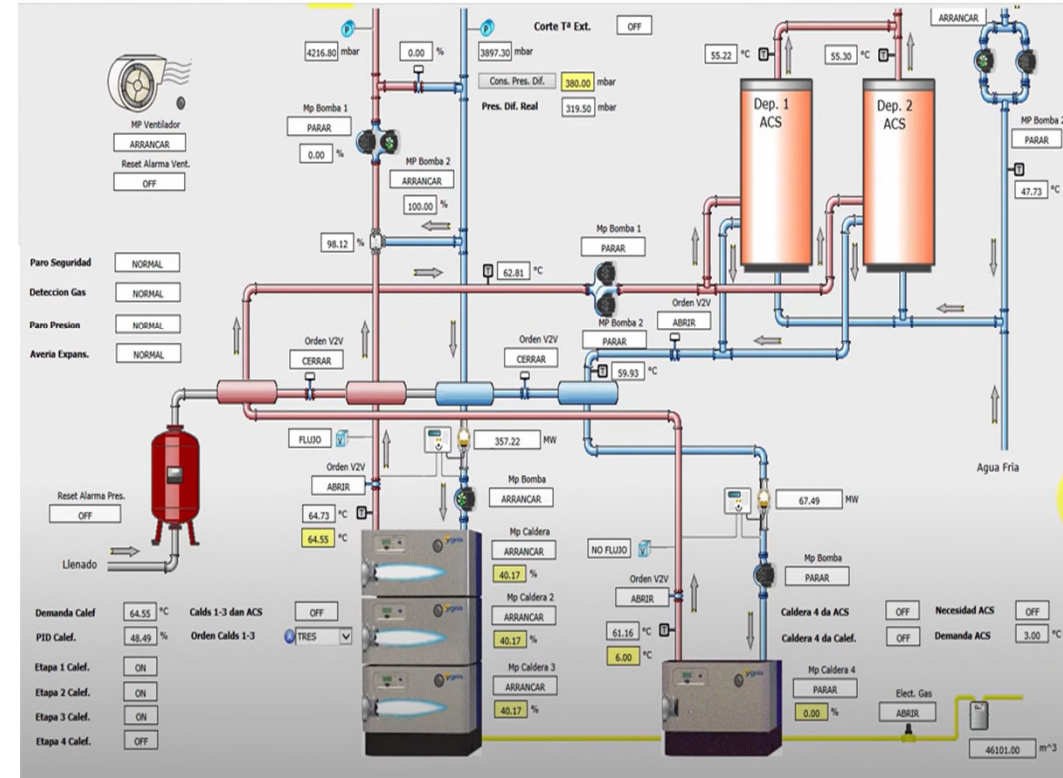
1 Over the years, energy efficiency use has become a key target for many disciplines. Transforming our World: the 2030 Agenda for Sustainable Development includes 17 Sustainable Development Goals. Among others, energy efficiency use is considered one of the game-changer for sustainability, contributing to achieving the Sustainable Development Goals.

2 Gaztelueta is considering working on at least one of sustainability's three main pillars: the economy, society, and the environment:

- >Economy: e.g. potential cost savings for users through the use of the proposed solution;
- >Environment: e.g. developing environmentally sound solutions, ensuring standards are met;
- >Society: e.g. enhancing safety in production, use or end-of-life, stakeholder perception of solutions.

3 In this context, different challenges such as the designing and developing of more sustainable, ecological, and efficient smart buildings, can be addressed.

4 A way to achieve this goal is to replace the current building HEATING SYSTEM by a more intelligent system which can be developed considering the new photovoltaic energy supply system.





TENDER DOCUMENT

- Kaener is the company chosen by the school to develop the project. They need a clear and well-defined employer requirements.
- The participating students will make sure to meet the technical specification in time and quality so that Kaener can work on the technical proposal.
- The technical specification will consists of the following deliverables:
 - Engineering Technical Note
 - Economic Study
 - School Board of Directors Approval Document
 - Technical report considering Gallastegui Photovoltaic Project

