

Case Study

Industrial Energy Efficiency



Sector: Industry Large Buildings Infraestruturas Small buildings / residential

Subsector: Dairy Year: 2017

Client: Fromageries Bel Implementation (months): 3 m

Location: Vale de Cambra (Portugal) Performance Contract (years): N/A

Type of Contract: Custom fabrication and installation, of insulation panels for fronts of 3 steam boilers. The project was implemented under a lump-sum contract with guaranteed pay-back period

Project description:

Custom fabrication and installation, of insulation panels for fronts of 3 steam boilers. Silicone impregnated fiberglass fabric was used for the exterior lining, and ceramic blanket (128kg/m3 and 25mm thick) was used for the internal insulation material.

Based on that take-off, 369 custom-made thermal insulation jackets were manufactured by EWEN, with interior and exterior lining in silicone impregnated fiberglass fabric, and insers 25mm thick, and 128kg/m3 ceramic insulation mat. A sophisticated and highly interactive dashboard was created on Microsoft's PowerBI platform, which presents the insulated equipment on the plants layout, and provides the calculated savings, savings up to today and the payback period for each jacket.



Central de Vapor

Nome Equipamento: Diâmetro:

Poupança à Data: 1,303 €
Investimento 2,548 €

Temperatura da sem isolamento térmico flexível

Temperatura após instalação

Informação

Central de Vapor Local
Zona/Equipamentos
Nº Série
Standard
Tipo Fabrico.
Diâmetro
Nome Isolamento

Planta Piso 1

Status

8,68 Pay-Back (meses)
2,548 € Valor Investimento (Eur)
4,080 € Perdas sem Isolamento (Eur/ano)
1,303 € Poupança à data (Eur)
8,760.0 Regime Funcionamento (h/ano)
2018-06-08 Data Break-even
19/01/2017 Earliest Data Fornecimento

Esquema da localização dos isolamentos

Project results:

All components included in the project were insulated with custom-made thermal insulation jackets, manufactured by EWEN. The simple pay-back period was less than 18 months.