

Energy Efficiency Actions in SMEs and Large Companies in the Industrial Sector II

Plant: Grupo Componentes Vilanova, S.L.

Grupo Componentes Vilanova, S.L., commitment to improve energy efficiency in its facilities, through different projects that have been carried out with the support of energy saving and efficiency aid line in SMEs and Large Companies in the Industrial sector, co-financed by the European Regional Development Fund (ERDF)) and managed by the IDAE under the national energy efficiency fund.

The aid granted is intended to act in a cleaner and more sustainable economy.

The actions carried out are the following:

Installation of heated ceramic gutter with improved energy efficiency

The current gully, which operates with natural gas heaters, has been replaced by a new one made of ceramic material and with covers that heats by infrared.

This action has received financial support of € 25,853.01 through the energy saving and efficiency aid program in SMEs and large companies in the industrial sector, co-financed by the European Regional Development Fund (ERDF), coordinated by the IDAE and managed by the ICAEN, with the aim of achieving a cleaner and more sustainable economy.

Thanks to the action, energy savings of 408.10 tep / year and 905.68 tCO₂ / year avoided have been achieved.

Improved energy efficiency in the melting process

The rotary furnace and melting tower 1 (TF1) have been replaced by a new advanced melting tower (TF3), with the aim of reducing natural gas consumption in the refinery stage.

This action has received financial support of € 143,678.67 through the energy saving and efficiency aid program in SMEs and large companies in the industrial sector, co-financed by the European Regional Development Fund (ERDF), coordinated by the IDAE and managed by the ICAEN, with the aim of achieving a cleaner and more sustainable economy.

Thanks to the action, energy savings of 219.72 tep / year and 514.14 tCO₂ / year avoided have been achieved.

Improved energy efficiency by replacing the coolant cooling system

The current coolant cooling system has been replaced by a new, more efficient system, through the installation of two Carrier chillers.

This action has received financial support of € 25,310.39 through the energy saving and efficiency aid program in SMEs and large companies in the industrial sector, co-financed by the European Regional Development Fund (ERDF), coordinated by the IDAE and managed by ICAEN, with the aim of achieving a cleaner and more sustainable economy.

Thanks to the action, energy savings of 24.6 tep / year and 94.47 tCO₂ / year avoided have been achieved.

Energy efficient robotization

Robots with heavy traffic have been replaced in the UN1 PWT "Power Train" zone and in the UN · STRG "Steering" zone, which combine added functionalities, security measures, a greater range of reach and work based on greater energy efficiency and lower consumption thanks to the use of more efficient motors and optimization of their controls. The energy saving achieved with this action is 15,3 toe / year.

Total investment of the project: 213.423,00 €

The aid granted amounts to 23.590,77 €

Energy efficiency improvement of refractory insulation in melting furnaces

Refractory insulation has been replaced in 7 melting furnaces corresponding to the Refinery stage of the production process. The furnaces that are the object of the action correspond to the fuse towers TF1, TF2, 4 maintenance furnaces RAN2, RAN 3, GUINEA TN15 and GUINEA TN20 and TRF Rotary mouth. The new refractory material combines the chemical composition of the refractory material with built-in stainless steel fiber, allowing the reduction of energy consumption in the process. The energy savings achieved with this action is 619,15 tep / year.

Total investment of the project: 382.378,00 €

Grant: 75.443,40 €

Energy efficiency improvement of the lighting system

Low efficiency luminaires of obsolete technology have been replaced by a total of 712 efficient LED technology luminaires of various models in several factory buildings. The energy savings achieved with the performance is 78,35 tep / year

Total investment: 182.825,00 €

Grant: 47.363,28 €

CNC machine energy efficiency improvement

In which four CNC machines have been replaced by a single double spindle CNC model SW BAW06 22, with which a saving of 55,55 tep / year has been achieved.

Total investment: 755.456,00 €

Grant: 149.353,54 €

Energy efficiency improvement by gate piloted pilot furnaces refinery

The action carried out consists of an energy improvement of the RAN1, RAN2 and RAN3 Reverery maintenance furnaces of the Refinery through the incorporation of gates in the smoke outlets, which are piloted with an automatic actuation cylinder depending on the internal temperature and pressure in the furnaces to ensure safety, facing the current situation of direct open exit. In this way it has been possible to reduce thermal losses, with a more efficient final operation. The energy savings achieved with the performance is 658,60 tep / year

Total investment: 115.100,00 €

Grant: 34.530,00 €



Energy Efficiency Actions in SMEs and Large Companies in the Industrial Sector II

Plant: Inyectametal, S.A.

INYECTAMETAL S.A. commitment to improve energy efficiency in its facilities, through different projects that have been carried out with the support of energy saving and efficiency aid line in SMEs and Large Companies in the Industrial sector, co-financed by the European Regional Development Fund (ERDF)) and managed by the IDAE under the national energy efficiency fund.

Based on the actions "ENERGY EFFICIENCY IMPROVEMENT IN THE MELTING FURNACE", " ENERGY EFFICIENCY IMPROVEMENT IN THE GENERATION OF COMPRESSED AIR" and " ENERGY EFFICIENCY IMPROVEMENT IN THE WASHING OF MACHINED PARTS" that has been carried out with the support of the Aid Program for Energy Efficiency Actions in SMEs and Large Companies in the Industrial Sector for 2019 and 2020, a reduction in CO2 emissions equal to 1,252 tons of CO2 has been achieved.

ENERGY EFFICIENCY IMPROVEMENT IN MELTING FURNACE

- The aid granted amounts to 238.015,85 €
- Total investment: 865.714,70 €
- Reduction of CO2 emissions (tons / year): 1,088 t CO2

EFFICIENCY IMPROVEMENT IN THE GENERATION OF COMPRESSED AIR

- The aid granted amounts to 17.045,70 €
- Total investment: 102.669,00 €
- Reduction of CO2 emissions (tons / year): 55 t CO2

ENERGY EFFICIENCY IMPROVEMENT IN THE WASHING OF MACHINED PARTS

- The aid granted amounts to 15.691,61 €
- Total investment: 97.564,00 €
- Reduction of CO2 emissions (tons / year): 109 t CO2

Energy improvement of the refractory insulation in melting furnace.

The refractory insulation of the melting furnace 1 of the ship 1 has been replaced by a more efficient system, in which energy efficiency of 76,91 tep / year has been achieved without altering the production process. The new refractory material combines the special chemical composition of the refractory, together with built-in stainless steel fiber, achieving an optimal condition in aluminum melting furnaces. The investment of the action was 82.700 €
The aid granted amounts to 24.030 €

Machining Energy efficiency improvement of aluminum parts.

In building 2, the machining centers LINBRO5 and LINBRO6, consisting of 3 machines each, have been replaced by 8 more efficient machines, without affecting the production process. The 8 new equipment are vertical machining Brother Speedio S700X1 BBT30CTS 16K 21 ATC. The energy saving achieved with this action corresponds to 66,92 tep/year. The investment of the action corresponds to: 890.680,91 €
The aid granted amounts to 204.549,87 €

Machining Energy efficiency improvement of aluminum parts.

The machining centers LINBRO7 and LINBRO8, placed at building 1 and building 2, which 6 inefficient machines, have been replaced by 2 new centers. The 8 new machines are vertical machining Brother Speedio S700X1 BBT30CTS 16K 21 ATC. The energy saving achieved with this action corresponds to 67,42 tep / year. The investment of the action corresponds to: 907.175,00 €.
The aid granted amounts to € 209.498,10 €

Energy efficiency improvement of parts washing process.

The washing machines 10LA04 (94kW), 28LA01 (63kW), 61LA01 (52kW) and 61LA04 (97kW) have been replaced by new machines that optimize the washing, rinsing, blowing and cooling processes. The equipment model for which it has been replaced corresponds to continuous washing machine with conveyor chain, three chamber tunnel type, Model LCB2-123-DCE. The energy saving achieved with this action corresponds to 58,82 tep / year. The investment of the action corresponds to: 612.800 €
The aid granted amounts to 149.674,43 €

Energy efficiency improvement with frequency inverters.

Frequency inverters have been incorporated into the hydraulic pump motors of the IDRA 700 injectors (F30, F34 and F53) in order to regulate the necessary flow in the production process. Two drive pumps with frequency inverters have also been installed to the water cooling circuits, making them work according to the need of the injector machines and not at constant rate. The investment of the performance corresponds to: 95.530,06 €.

Energy saving of 14,22 tep/year has been achieved
Aid granted amounts to 28.659,02

Improvement in energy efficiency in maintenance ovens

The aluminum dosing furnaces with open crucibles of a nominal power of 100kW have been replaced in 2 injectors by new maintenance furnaces without crucible, with closed aluminum fusion cell, with refractory and silicon carbide resistances with a nominal consumption of 22 and 25 kW respectively. The ovens also have an electronic dosing system. The energy savings achieved are 43,26 tep / year. The investment made in this action is 129.572,00 €

The aid granted amounts to 35.025,59 €



Energy Efficiency Actions in SMEs and Large Companies in the Industrial Sector II

Plant: Alcasting Legutiano, S.L.

Energy efficiency of aluminum parts machining process

ALCASTING LEGUTIANO, S.L. is committed to improving energy efficiency in its facilities, through different projects that have been carried out with the support of the program for energy saving and efficiency aid in SMEs and Large Companies in the Industrial sector, co-financed by the European Regional Development Fund (ERDF) and managed by the IDAE under the national energy efficiency fund. The aid granted is intended to act in a cleaner and more sustainable economy.

The actions carried out are the following:

Energy efficiency of aluminum parts machining process.

Five machining equipment have been replaced by new highly flexible machining centres that make it possible to manufacture the same parts, achieving high energy savings due to the use of high-efficiency motors without affecting the production process. The 5 replaced machines are vertical machining Brother Speedio S700X1 BBT30 CTS 16K 21 ATC. The energy savings achieved with this action corresponding to 52,32 tep/year. The investment of the action corresponding to: 506.725,00 €.

Grant: 109.560,93 €



Plant: Recyde, S.A.

Energetic improvement of CNC machining system

Reference: FN-PGESI-2017-000535

Investment: 832.500 €

Grant: 121.000 €

Funded by:



Energy Efficiency Actions in SMEs and Large Companies in the Industrial Sector

Plant: Inyectametal, S.A.

Energy efficiency improvement in furnace tower and dose control auxiliary equipment by thermal coating renewal

Reference: 55

Investment: 105.634 €

Grant: 31.000,2 €

Efficient industrial machining process

Reference: 65

Investment: 744.239 €

Grant: 193.710 €

Replacement of three horizontal machining centers by a single low consumption and reduced cycle time "energy saving high speed transfer"

Reference: 77

Investment: 761.852 €

Grant: 149.236 €

Energy efficiency improvement in lighting by replacing current luminaires with high efficiency and improved roofing

Reference: 100

Investment: 119.287 €

Grant: 34.438,80 €

Compressors heat recovery in Hall 1

Reference: 296

Investment: 146.685 €

Grant: 44.005,50 €



UNIÓN EUROPEA
Fondo Europeo de Desarrollo Regional
(FEDER)



Redu.E.CIE: Led lamps for ceiling lighting

Reference: C22.159

Plant: CIE PLASFIL

Investment: 68 247.21€

Grant: 20 250.30€

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