



[Applying Energy Efficient measures for metal and metalworking SMEs and industry \(EE-METAL\)](#)

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4 MMA companies with an EMS/SCADA implanted **Public**

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| Review by | All partners |
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| Abstract | This deliverable presents the implementation of Energy Monitoring Systems in 1 SME per country, by promoting contacts and facilitating agreements between SMEs of the MMA subsectors. |



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A common methodology has been defined to achieve a similar implementation of Energy Monitoring Systems in SMEs:

1) Selection of SMEs

The 4 SMEs selected* for the implementation of Energy Monitoring Systems were selected on the basis of the following criteria:

- Significant energy consumption
- Potential for saving energy (economic interest)
- Prior completion of an energy audit
- Experience in a Management System (ISO 9001, 14001 or 50001 certification acquired or in progress)
- Motivation and enthusiasm

* Details of the selected companies :

- ✓ **Spain : INREGAL (C25)**
- ✓ **Italy : SBM-IRFI (C25)**
- ✓ **Poland : Meprozet Stare Kurowo Sp. z o.o. (C25)**
- ✓ **France : TECHNOCOAT (C25)**

2) Methodology

For the Implementation of Energy Monitoring Systems in the 4 SMEs, the same methodology was used: by promoting contacts and facilitation of agreements between EMS/SCADA providers and SMEs.

- Selection of 3 or 4 EMS/SCADA providers (criteria : experience in MMA and in SMEs, intuitive solution, availability...)
- Final selection by the company (adequacy to needs, price)

The method and results are detailed in the deliverable D4.5.

3) Planning

For this implementation a common planning was define between December 2017 to November 2018:

- Selection of the company (January 2018)
- Beginning of the implementation (After the training ; February 2018)
- Drafting specifications (May 2018)
- Selection of 3 or 4 EMS/SCADA providers (June 2018)
- Final selection by the company (July 2018)
- Acquisition and installation of the EMS solution (September 2018)
- Measurement and analysis of the results (October 2018)
- Ending of the implementation (November 2018)



4) Acquisition and installation of the energy monitoring solution

| Country | Supplier (name) | Supplier (name) | Composition of the EMS | Follow-up energy | Follow-up equipments |
|---------|----------------------------------|-------------------------|--|-------------------|--|
| Poland | Meprozet Stare Kurowo Sp. z o.o. | FreeEn Sp. z o.o. | Sensors + Acquisition chain + Software | ELECTRICITY | W1 department (benders, welders, cutting equipment), Galvanizing furnace, Office building (lighting) |
| Spain | INREGAL | David Amigot (Circutor) | Sensors + Acquisition chain + Software | ELECTRICITY | Rectifiers, Electrical resistors, lighting, water treatment plant. |
| Italy | SBM-IRFI | Electro IB | Sensors + Acquisition chain + Software | ELECTRICITY | Compressors, Office building, Painting, Sandblasting, Plasma cutting, Boring machine, SBM internal, General supply line for IRFI, SBM and mechanical departments |
| France | TECHNOCOAT | GulPlug + APCC | Sensors + Acquisition chain + Software | ELECTRICITY + GAS | ELECTRICITY: General arrival of the automatic painting line, Air extraction of the manual cabin line, Air extraction of the automatic cabin line, Air extraction of the sandblasting cabin, Air extraction of the metallisation, Air extraction of the long-length powder-coated cabin, Air compressor 1, Air compressor 2, SFCME furnace, General arrival of the shot blasting machine GAS: Degreasing bath 1, Degreasing bath 2, Dryer, Automatic line polymerization furnace 1, Automatic line 2 polymerization furnace, Long-length line polymerization furnace |