

MARIE TRAINING PROGRAM FOR IMPROVEMENT IN ENERGY EFFICIENCY (EE) OF EXISTING BUILDINGS

F1 | BEST PRACTICES COLLECTION

| | |
|---------------------|---|
| Best Practice Name: | Maintenance staff Training as Energy Managers, contracted by EECAT. |
| Code: | SP_TE_MA_02 |

Best Practice Description:

| | | | |
|-------------------|--|---|--------------------------------|
| Type: | <input type="checkbox"/> Action for improvement in the EE | <input checked="" type="checkbox"/> Training experience (*) | |
| Description: | Energy Efficiency training of maintenance staff and operators so they can act as Energy Managers of the equipment buildings, in the sphere of the maintenance contracts promoted by the public company EECAT.SA. The training is executed together with ICAEN (Catalan Institute of Energy). | | |
| Location: | Catalunya | Country: Spain | |
| Contact (team): | Xavier Arola Director General EECAT xarola@eecat.cat 934444444 | | |
| Type of building: | <input checked="" type="checkbox"/> Tertiary | <input type="checkbox"/> Residential | <input type="checkbox"/> Mixed |
| Property: | <input checked="" type="checkbox"/> Public | <input type="checkbox"/> Private | <input type="checkbox"/> Mixed |
| Management: | <input checked="" type="checkbox"/> Public | <input type="checkbox"/> Private | <input type="checkbox"/> Mixed |
| Fields of action: | <input type="checkbox"/> Construction | <input checked="" type="checkbox"/> Maintenance | <input type="checkbox"/> Use |
| | <input type="checkbox"/> Energy generation and distribution | | <input type="checkbox"/> Other |
| | <input type="checkbox"/> Replacement or implementation of renewable energies | | <i>Which ones?</i> |

Please, evaluate if the following processes take place in the Best Practice that you are describing in this form:

| | Yes | No |
|---|-------------------------------------|-------------------------------------|
| The data collection has been complete and rigorous | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| Communication and awareness processes have been developed to disseminate this practice | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| Training actions have been provided | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| Product and services have been improved | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| Jobs have been created | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| Sustainable financial models have been applied | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Agreements or collaboration models have been defined between parties | <input checked="" type="checkbox"/> | <input type="checkbox"/> |

Positive impact tested in the following fields (add quantitative data if you have):

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| ENERGY EFFICIENCY IMPROVEMENT (EE) | <ul style="list-style-type: none"> - Revision/benchmarking of energy accounting (savings 9% of consumption) - Establishment of monitor equipment (field elements + SIE) - Immediate adoption of saving practices and introduction of low-cost improvements with savings of 5-10% depending on the equipment |
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| | typology. |
| FINANCIAL COVERAGE | At the pilot stage the finance is satisfied as compensatory marginal item of the maintenance cost. In case of detecting investments, models ESCO will be promoted. |
| EMPLOYABILITY POTENTIAL | The accumulated ratio hours-person is a total of 1'5 people (1 specialized technician and 0'5 administrative support) for each maintenance company: 12 people The potential of employment originated, considering the introduction of saving practices and the execution of improvements related to energy efficiency is 36 people per year (with an expected term of execution of two years). |
| OTHER | Awareness and communication of good practices within the users and other managers of public equipments. Specifically, the project is completed with an educational project in the field of the responsible department of Education. |
| DIFFICULTIES | Institutional environment with unequal motivation to impulse and support the project. The permeability when introducing improvements in the EE fields. |

Agents involved in this experience:

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|---|---|
| | Legislation agencies |
| X | Public promoters |
| | Private promoters |
| X | Technical public institutions |
| X | Technicians of the private sphere (professional associations ...) |
| | Builders |
| X | Industrials |
| | Facility Managers (property managers, cleaning companies ...) |
| | Energy supply companies |
| X | Users/owners (homeowners association, schools ...) |
| | Other: |

| | |
|-------------|--|
| GAPS | <p>Training necessities:</p> <ul style="list-style-type: none"> - General aspects of EE - Best practices guide (users) - EE project display (institutional environment) - EE tools (users, managers and environment) |
|-------------|--|

(*) RR_BB_FF_NN

RR Country: *CY* (Cyprus), *FR* (France), *GR* (Greece), *IT* (Italy), *MT* (Malta), *PO* (Portugal), *SL* (Slovenia), *SP* (Spain)

BB Type of building: *RE* (residential), *TE* (tertiary), *MX* (mixed)

FF Field of action: *CO* (construction), *MA* (maintenance), *US* (use), *EN* (energy generation and distribution), *OT* (other)
(in case of affecting more than one field of action choose the most relevant)

NN Number of the practice: *01*, *02*, *03*...