MARIE
INFORMATION
AND TRAINING

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

F1 | BEST PRACTICES COLLECTION

Best Practice Name:	ICT energy efficiency measures for distributed offices IP devices
Code:	SP_TE_MA_11

Best Practice Description:

Type:	X	Action for improvement in the EE		Training experience (*)	
Description:	This solution has been installed to monitor, manage and report on Energy consumption for IP networked office equipment (mainly computers, phones, WIFI access points and switches from Cisco).The results vary between 15 and 50% reduction against baseline.				
Location:	Catalunya, Madrid, Andalucía		Country:	Spain	
Contact (team):	Juan Pablo Garcia, jp@leantricity.es +34 638251782 www.leantricity.es				
Type of building:	X	Tertiary		Residential		Mixed
Property:		Public		Private	X	Mixed
Management:		Public		Private	X	Mixed
Fields of action:		Construction	X	Maintenance	X	Use
		Energy generation and distribution				Other
		Replacement or implementation of renewable energies				

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	X	
Communication and awareness processes have been developed to disseminate this practice	X	
Training actions have been provided	X	
Product and services have been improved	X	
Jobs have been created		X
Sustainable financial models have been applied	X	
Agreements or **collaboration models** have been defined between parties		X

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

ENERGY EFFICIENCY IMPROVEMENT (EE)	Depends on scenarios, but in our experience in big networks (+500PC) the savings can vary between 50 and 180kWh per year per computer. Case studies are based in real actions in real customers during the last 6 years in Spain and Europe. We actually have more than 15 real customers in production in Spain (and more than 700 organizations use our solution Worldwide). Our software measures the exact amount of time a device remains in

	each of its main energy states, so precision is really high, higher indeed than all the other usual methods.
FINANCIAL COVERAGE	The investment can be made upfront or based on demonstrated savings; the model can be the performance one without problems. The return on investment is below 18 month in all cases.
EMPLOYABILITY POTENTIAL	The training is aimed at existing workers that must improve their awareness and scope of action regarding energy waste in a heavily uncontrolled environment as it is ICT equipment in offices.
OTHER	Resources utilization is tracked, so we can reduce nonsensical spending, maintenance costs, working hours to support unused devices and CO2 emissions, of course.
DIFFICULTIES	ICT people are as far as anyone can be regarding to worries or reflection about energy waste. The cultural shift must be really important, as important it is to tame the misuse of energy in big office networks.

Agents involved in this experience:

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

GAPS	

*(*) **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…***