

Online Discussion: Awareness Raising and Behavioural Change for Energy Efficiency in Buildings 5 December 2018

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What is the sustainability observatory?

- Web-based software platform
- Monitoring and energy management of municipal infrastructures
- Created for municipalities and based on their management needs
- Users: Technicians from municipalities and organizations from the municipal sphere





General description

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Promoter

Energaia Regional Energy Agency



Scale

Inter-municipal/regional 5500 buildings 4000 street lighting networks 1000 municipal fleet vehicles

Supporting Entities

Six associated municipalities and Irradiare, an energy efficiency consultant

Financial Supporting

ON2 – North Portugal Regional Operation Programme 2007-2013

Implementation

2012 - Continuous improvement

Clientes									[
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Gaiurb – Urbanismo e Habitação	1		0		0	0	0		02



Functionalities





OdS: SUSTAINABILITY OBSERVATORY Objectives

- Contribute to the sustainability of the territory
- Providing monitoring tools
- Facilitate energy management in municipal infrastructures
- Simplify technical and administrative processes
- Reduce energy consumption, costs and CO₂ emissions



energy benchmarking for municipalities





real time monitoring | real time analytics

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Clientes	Classe de utilização		Agrupamento		
Câmara Municipal de Vila Nova de Gaia 🔹 🔻	Todos	•	Todos	T	

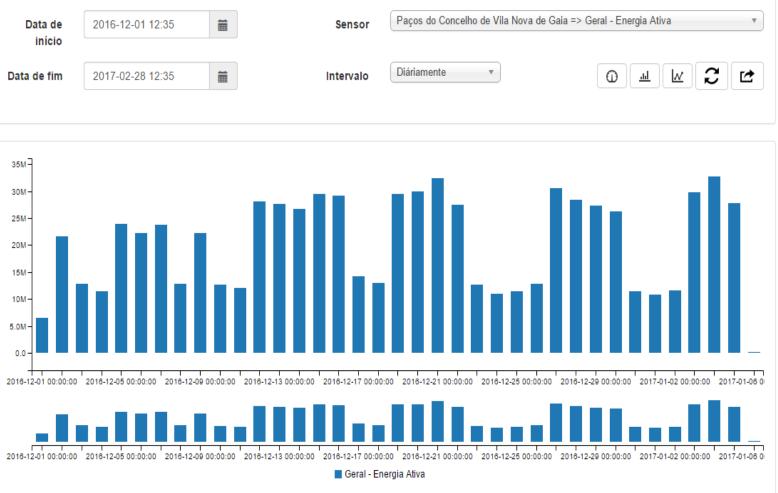
Edifícios			
Designação do edifício	Município	Rua	Coordenadas ♦ GPS ♦ Ativo ♦ Ações
AECS (Rua Bairro Pinto Silva, 113 - Pedroso)	Vila Nova De Gaia (Continente)	Rua Bairro Pinto Silva	41.07444, Sim 🖍 🕑 🍳 -8.58054
AL CEDRO	Vila Nova De Gaia (Continente)	Alameda Cedros	41.10916, Sim 🖍 🕑 😢
AL MOSTEIRO	Vila Nova De Gaia (Continente)	AL MOSTEIRO	41.07444, Sim 🖍 🕑 🥥 -8.58054



real time monitoring | real time analytics









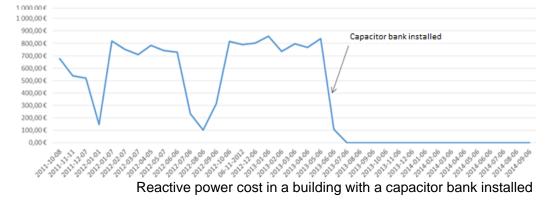
information on billing and electricity consumption

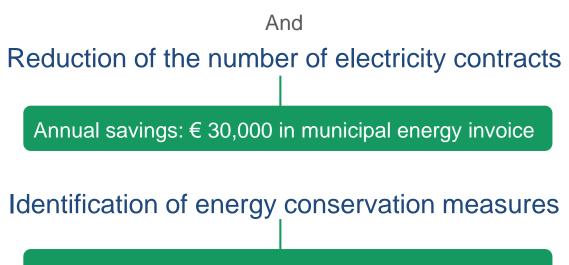




results

example: use the information obtained in the file to validate the implementation of efficiency measures Installation of capacitor banks in municipal buildings for power factor compensation





Annual savings: 790 MWh | 265 t _{CO2} | € 180,000

Thank you!



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