

SELF CONSUMPTION OF RENEWABLE ENERGY BY HYBRID STORAGE SYSTEMS

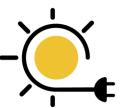
Training Course on Thermal Energy Storage for Heating, Cooling and DHW for Buildings

The implementation of the EPBD and the Portuguese case

Pedro Mateus, ADENE - PT



ADENE, Lisbon, Portugal, 1st of April 2022



WWW.SCE.PT



CONSUMIDORES

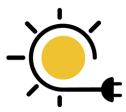
INVESTIDORES

PROFISSIONAIS

INSTITUCIONAL

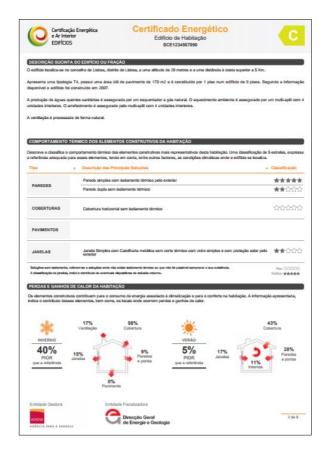
Acesso Profissionais

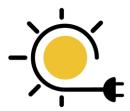




Energy Performance Certificate

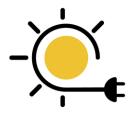




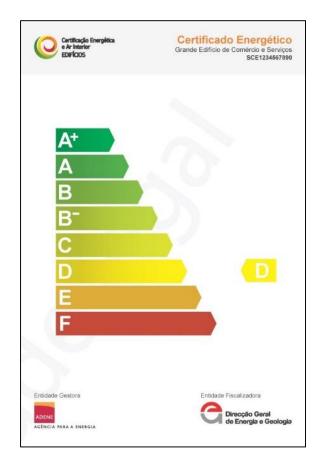


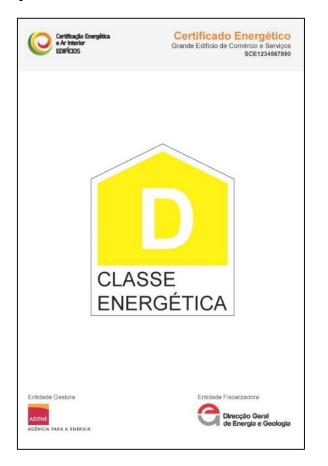
Energy Performance Certificate

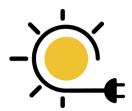




Energy Performance Certificate – Display in non residential buildings

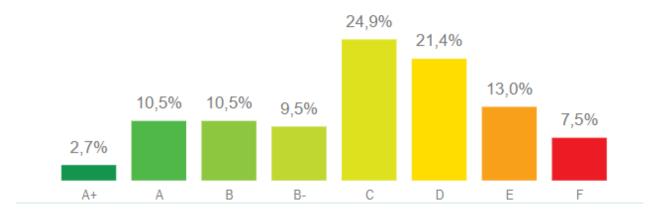


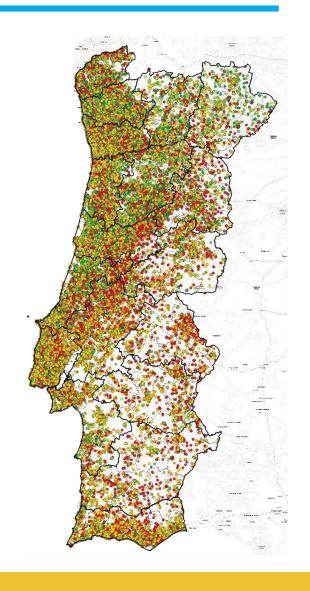


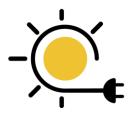


Energy label distribution

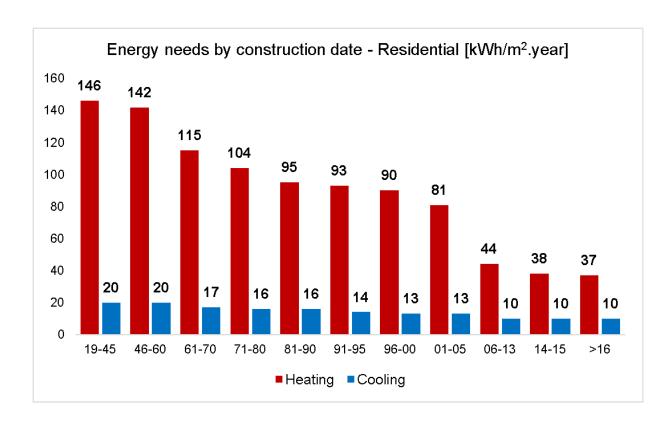
Total EPC = 1.611.382

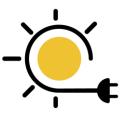






Energy needs evolution

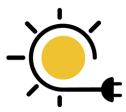




Minimum performance requirements

Building	Main legislation requirements	Requirements included in calculations
Residential and non- residential	Thermal behaviour, Energy and Indoor Air Quality	Thermal Comfort
		Minimum requirements for U-values, including thermal bridges
		Windows solar factor and shading devices
		Ventilation Indoor air quality Infiltration
		Maximum energy needs and primary energy consumption
	Systems efficiency	Minimum efficiency for HVAC systems Renewable energy systems Lighting (only for non-residential)
Non residential	Ventilation and indoor air quality	Minimum outdoor air supply Indoor air quality Infiltration
	Installation and maintenance	(Not relevant for calculations)

19.04.2022 www.scores-project.eu 8



Experts and Technicians











EPC for residential buildings

EPC for

Non - residential buildings

Systems Installation and Maintenance

Maintenance and Energy management for large non-residential buildings

HVAC Systems Inspection (> 70kW)

Thank you!

• Pedro Mateus, ADENE, PT – pedro.mateus@adene.pt





























