

# Desendolla't

Stakeholder engagement for energy efficient schools in Osona

A Covenant of Mayors 2015 Case Study

## Desendolla't in a nutshell

The Desendolla't project encourages efficient energy management in schools through ICT technology and education. It brings together five target groups: students, teachers, caretakers, cleaning teams, and town council staff.

## Joining forces

The Desendolla't project is created, coordinated and executed by the Local Energy Agency and the Education Service of the County Council of Osona in Spain. The Local Energy Agency (LEA) is a department of the Regional Council, which collaborates with energy councils of the region, provides advice and promotes energy efficiency and renewable energy.

The Desendolla't project was born in the context of Covenant of Mayors (CoM). The Local Energy Agency of Osona and Diputacio de Barcelona are promoters of CoM in Catalonia and almost all Town Councils of this project have joined the CoM.

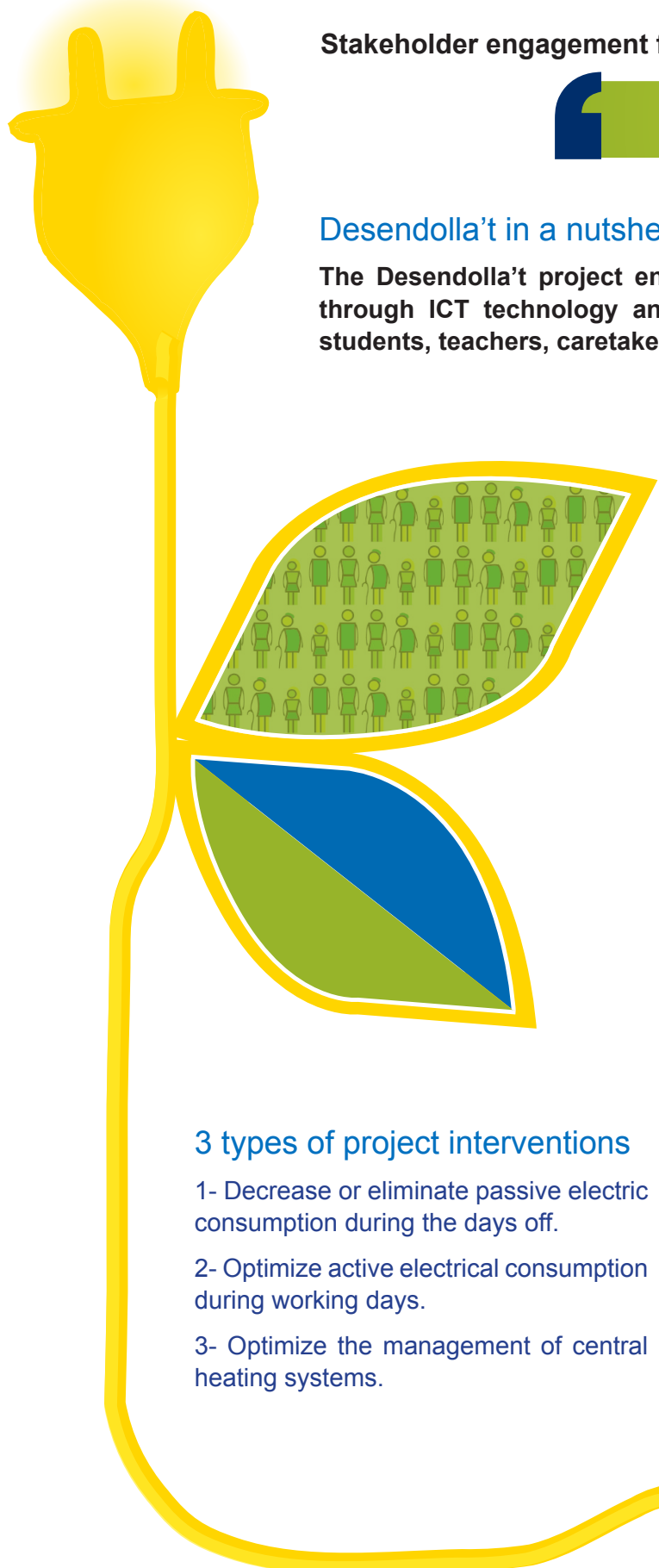
## A far-reaching project

Desendolla't was created in 2012, when a benchmark of the energy cost of public schools against private ones carried out by the Local Energy Agency revealed that public schools were lagging far behind.

The objective of Desendolla't project is to improve energy efficiency of public schools buildings. What makes this project unique is stakeholder engagement: Desendolla't aims to educate students, teachers, caretakers and cleaning team in energy saving and efficiency, both in school and at home.

## 3 types of project interventions

- 1- Decrease or eliminate passive electric consumption during the days off.
- 2- Optimize active electrical consumption during working days.
- 3- Optimize the management of central heating systems.





## From smart meters to smarter communities

First, public schools were selected and their energy consumption was analyzed.

In a second phase, smart meters were installed and an analysis of passive electric consumption was carried out. During a six-month period the central heating system management was optimized.

In the last phase of the project, tele-management systems were designed and installed in central heating of certain schools. In parallel to the technical part, workshops on better management techniques with caretakers, teachers and cleaning teams were organized during the first and second half of the year. The project was finalized with delivery of an educational kit to teachers.

The results of two years of Desendolla't project in 27 schools are measured by e-invoicing of energy supply, through an innovative, centralized e-invoicing monitoring system.

From 20 schools enrolled in the school year 2012-2013, 7 more joined in 2013-2014. The project was implemented by 30 partners from public administration under the coordination of the County Council of Osona. The Local Energy Agency contributed with technical expertise and the Education Service assisted with educational knowledge.

## Project numbers

Project duration: **2** school years

Years: 2012-2014

**27** schools enrolled



**26%** of electrical consumption savings

**19%** of thermal consumption savings

**280 000€** energy cost savings

## A recognised success

The Desendolla't project won the 2015 Sustainable Energy Award of the EU Sustainable Energy Week. The prize was awarded on 16 June 2015 at the European Commission in Brussels by EUROCITIES Secretary general Anna Lisa Boni, in presence of the European Climate Action and Energy Commissioner Miguel Arias Cañete.

 *ICT are powerful tools for energy management if constantly managed by energy managers.* 

Manel Romans, Vice President of the County Council of Osona



*"Desendolla't stood out because of the impressive achievements in a very small period of time"*  
(Anna Lisa Boni, Secretary General of EUROCITIES)

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