

EDEN

03 November 2014



Applicant: **Iren Energia S.p.A.**

Project Partners:

- **CSP - Innovazione nelle ICT s.c.a.r.l.**
- **Politecnico di Torino**
- **Commitworld S.r.l.**
- **Capetti Elettronica S.r.l.**
- **Consorzio Top-IX**
- **Experientia**
- **ISMB**
- **Sisvel Technology S.r.l.**

The project was born from the idea of using the paradigm of the Internet of Things to foster a widespread awareness on energy consumption in schools.

The collection of data from sensors deployed and connected to the internet, the first phase of EDEN, integrates with the development of a set of tools to control data (apps, websites, dashboards, analysis and management of data), the observation which allows to develop strategies for dissemination and communication that make users able to make rational energy choices and marked reduction in consumption.

The schools, the main target of the proposed activity by EDEN, then become ground collection, elaboration, and reasoned disclosure of consumer data, transforming students from mere consumers to agents of change to energy-intensive habits.

A web platform, the smart data platform, hosting the data made available in open mode, for further processing and consultations.

Sensors measuring consumption, technical equipment essential project, integrates a variation of the light poles that are given tools for measurement and control, they can act with its own intelligence in the management of lighting, ruling independently intensity, power and shutdown, actions modulated according to the actual conditions of natural light, according to the paradigm "smart streetlight." The internet of things becomes a vehicle for information capable of generating behaviours smart not only at the level of administrative support for the action and the management of urban system, but also to individual citizens guided in their choice by a high degree of information based on open data, processed for guiding corrections to consolidated behaviours as, for example, the excess energy consumption.

The dissemination activities and involvement carried out by teachers and students involved in the Living Lab with a project is a time for discussion and awareness, but also an opportunity to gather information of statistical significance of habitual behaviour, that they are correct and incorrect, developing strategies and behaviours so innovative, knowledgebased. The schools at the heart of the project are:

- **Scuola Media Costantino Nigra - Corso Svizzera 51 - Torino**
- **Scuola Elementare Gambaro (parte del complesso della scuola Costantino Nigra) - Via Talucchi, 19 - Torino**
- **Scuola Media Pacinotti - Via Vida, 5 - Torino**

http://www.smau.it/torino15/success_stories/progetto-eden-misurare-lefficienza-energetica-delle-scuole-torinesi/

<http://www.ireninforma.it/tag/eden/>