

## Cascade Newsletter 1

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### **Project start + coordination**

The CASCADE project “ICT for Energy Efficient Airports” started on 1 October 2011 with a planned duration of 36 months. It is coordinated by team leader Nicolas Réhault at the Fraunhofer-Institute for Solar Energy Systems (ISE) in Freiburg, Germany. CASCADE’s consortium is composed of 9 project partners from 4 European countries.

CASCADE’s main goal is to develop a new ICT solution based on an ISO 50001 Energy Management System supported by advanced algorithms for Fault Detection and Diagnosis of airport energy systems. The CASCADE solution will help airport energy managers better control their energy operation and reduce the carbon footprint of their buildings. The solution will be implemented and validated in two major European airports pilots, Roma Fiumicino and Milano Malpensa. It will target 20% energy savings on selected systems and three years ROI (Return on investment). The project is funded by the European Union under the 7<sup>th</sup> framework programme.

### **Web site**

The project web site <http://www.cascade-eu.org/> was launched on the 6 of December 2011, offering information about the project itself and the project partners. It will be updated regularly with news about the project. The website consists of a public and an internal part where partners, EU officials and members of the advisory board are allowed to access with a special login.

An online survey dedicated to European airports energy managers will be available over the CASCADE website. Goal of this survey is to capture the energy operation of airports buildings at European level in broad terms. The CASCADE consortium will invite airports to take part in the survey in the course of February 2012. By answering the survey, airports will have the possibility to benefit of a cross analysis of airports & energy at European level and of special insights into the work of our Consortium.

## **Project brochure**

The CASCADE project brochure gives a general overview on the project, its objectives and a description of the consortium's solution. It can be downloaded as pdf-file on the public part of the website.

## **Meetings**

Two meetings in presence of the whole consortium have been organised so far: a kick-off meeting on 13-14 October 2011 at the airport Milano-Malpensa and a working meeting at Roma-Fiumicino airport on 22 November 2012. The presentations and minutes are available for download in the internal area of Cascade web site.

Numerous work meetings have taken place in the framework of WP1 between the airports and consortium partners.

The next Project Management Board (PMB) meeting is scheduled for the 28-29 of March 2012 at Fiumicino airport. In autumn 2012 a General Assembly (GA) meeting will take place at Malpensa airport, including an Advisory Board meeting.

## **Work progress**

The focus of the work in Cascade's first months was set on an energy audit of both airport pilot programmes, to help characterize their energy management and consumption and to identify the energy systems on which the CASCADE solution will be applied. In the framework of Work Package (WP) 1 – "Operation scenarios of the European airports and other like facilities" a very detailed survey was developed to capture precisely the energy operation of both airport pilots and their interest in the CASCADE solution. An online survey distributed to other European airports has also been developed and will be available online over the website. The objective of this survey is to help characterize the energy operation and objectives of European airports in terms of emission reduction and to establish a benchmark.

The consortium also started to develop the overall project methodology and to reflect on the ICT architecture with new interfaces between the different partner tools within WP2 and WP3 that started jointly. The first hard- and software solutions will also be drafted and will be further developed within the next months.

## Next deliverables

The CASCADE consortium will hand over six deliverables in the course of 2012 which will be available over the project website:

Number	Deliverable title	Lead partner	Due date
D8.1	Project Website, press release, newsletter and brochure (iterative)	PSE	01.02.2012
D1.1	Energy and Technical Characterization, Operational Scenarios of European Airports as Open Spaces	IMP	01.06.2012
D8.2	Dissemination and Awareness Plan	PSE	01.06.2012
D2.1	Report & Brochure: CASCADE Methodology for Energy Efficient Airports	NUIG	01.10.2012
D2.2	Validation plan	ISE	01.10.2012
D3.1	Systematic approach for developing measurement based facility-specific operational guidelines	SMI	01.10.2012

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