



PRINTED ON
FEDRIGONI WOODSTOCK BETULLA.
ECOLOGICAL PAPER 100%.

Pre-commercial public procurement in Aosta Valley

FOR FURTHER INFORMATION:

Region Aosta Valley

Ministry for Productive Activities,
Energy and Employment Policy

DEPARTMENT FOR INDUSTRY,
HANDICRAFT AND ENERGY

Mr. Fabrizio Clermont

f.clermont@regione.vda.it

Mr. Francesco Fionda

f.fionda@regione.vda.it

Attiva s.r.l.

Innovation Desk

Mr. Federico Molino

Ms. Valeria Nossen

innovazione@ao.camcom.it



PRE-COMMERCIAL PUBLIC PROCUREMENT: AN INNOVATIVE INSTRUMENT FOR SUSTAINING RESEARCH & DEVELOPMENT

The Region Aosta Valley, first in Italy, in the month of March 2012 launched a pilot action of pre-commercial public procurement: this innovative instrument is aimed at purchasing services of research and development, at stimulating and helping the prototyping and experimentation of new products and services, not yet available in the market, in order to satisfy well identified and emerging needs and challenges of the collectivity. These prototypes typically involve single or group of final users for the experimentation and validation in a Living Lab environment.



The needs expressed by the collectivity, identified through a survey run on the territory and involving local public bodies, belong to the following technological domains:

SMART ENERGIES

- energy accumulation systems with the power to balance, at a local level, the production of energy from renewable sources with the consumption;
- systems for the monitoring, control and management – also remotely controlled – of the consumption and energy production.

INTELLIGENT MOBILITY

- monitoring of the road networks by means of sensors;
- innovative parking payment systems integrated with local public transport information systems;
- vehicle sharing management systems.

Following the first tender of pre-commercial public procurement, issued in March 2012, the regional public authority of Aosta Valley granted 5 contracts of R&D and prototyping, among which 2 in the domain smart energies and 3 in the domain intelligent mobility, with a global budget of 701.922 euros. In November 2012 Region Aosta Valley issued a second tender of pre-commercial public procurement, that granted 2 additional contracts of R&D and prototyping, in the technological area of smart energies, with a global provision of 201.339 euros.

Precommercial Public Procurement		Testing	
	Dialogue for solution exploration	R&D Prototyping Limited test series	Living Lab
Mapping			
Step 0	Step 1 2 Months	Step 2 6 Months	Step 3 6 Months



HY-STORAGE
Development and prototyping of energetic power backup systems with hydrogen vector.

Electro Power Systems developed hydrogen production systems prototype through sustainable resources integrated with electric and thermal energy production system in order to support electrical and thermal consumption. The system is able to stock unused or excess renewable energies and to transform it into hydrogen. The prototype provides electric and thermal energy when it is necessary.



APPLUS ENERGIE
The first Living Lab at school: learning more, consume less

Systems for the monitoring, control and management – also remotely controlled – of the consumption and energy production of users characterised by complex energy systems. This project faces the scientific problem of ruling the “river of data” generated by the sampling of thousands of sensors, considering the necessity of getting both the real-time changes and trends, and generating the required alerts.

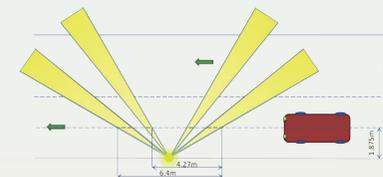


BI.S.EL.CE

Innovative system for electric bike sharing with access to payment through mobile and solar energy.



Innovative solution to control traffic problems due to road disruption, such as construction site. This technology allows to inform in real time about traffic jam, overcrowding and time of the trip.



INTEGRATED SYSTEMS FOR MOBILITY MANAGEMENT



Innovative services for the mobility, incoming and outgoing tourism management with a particular attention to parking and to local public transports. The software uses ICT solutions to allow the online access of the following services: public transports services management, free parking, payment parking, booking of natural and cultural interesting places.

