



MEDBEE FORUM - Mediterranean Buildings Energy Efficiency Forum

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From 2009 Genoa's Municipality is developing a process of integration between 3 important tools:

- **Covenant of Mayor**, (first of all) signed in 2009

- **SEAP-Sustainable Energy Action Plan** approved in 2010 by Municipality of Genoa with a big support from ARE (Energy Agency of Liguria) and University.

SEAP, an operational tool that defines the local energy policies in 2020 target, was developed in a strong link with Strategic Municipal Planning and was the first SEAP published on Covenant of Mayor website.

- **NEW Municipal Urban plan** (redesigned by the famous architect Renzo Piano and other colleagues and developed by the Urbanist Richard Burdett), adopted in December 2010.

Everything in a strong condivision with the Local Administrators (in Local Council) and in a global vision of Genoa as a future city, resumed in ten points (DECALOGO):

- The future Genoa as a sustainable city whose identity and development are inextricably linked to the harnessing of its natural resources.
- The green and the blue line are expressions of the relationship between the city, the green areas and the sea which is to be preserved, improved and reconstructed by identifying suitable ecological networks. As you know Genoa is a City between hills on the sea and the Blue line is the sea border, while the Green line is the hillside built-up area. The main target is BUILD ON BUILT UP AREAS.
- Recreate a relationship with green areas
- Recreate a relationship between the city and sea (**PEAP- Port Energy Action Plan**).
- Promote public transport, according with the target of the **URBAN MOBILITY PLAN**.
- Large and small projects for far-reaching urban transformation as well as the reclamation and regeneration of local suburban areas.
- Urban quality as a requisite for every redevelopment project.
- Social integration as a cornerstone of urban planning and architecture.

- Public tenders for architects to develop planning schedules and public projects.

At the same time Genova begin to think a process in order to be a SMART CITY.

What is a SMART CITY?

A city in which the quality of life improve with a sustainable economic development, founded on research, innovation and technology planned and leaded by the Municipality.

I wish underline that in May Genova have had administrative election and there was a strong continuity with the Old City Council. This strategic policies was confirmed by the new City Council

The tool that we had used is the **Association Genova Smart City (no profit Association)**, founded by Municipality, University of Genova and Enel (the biggest Italian electric company) and that NOW have more than 70 members (Institutions, Private companies, SME, Association, Esco, Bank).

All this subjects have worked (and are working) together to aim a smart city in 4 sector:

1. Intelligent building

2. Energy efficiency

3. Sustainable mobility

4. Port

through European, National and Regional founds.

The companies takes the initiative and Municipality facilitate the dialogue between public bodies, private companies and University (often, put together at the same table this stakeholders could be very difficult!)

The Genova Smart City process was born from SEAP studies and analysis.

From the SEAP analysis, the 45 % of energy consumption is assumed by residential housing.

So, regarding the building sector, the key action for new and existing building (keep in mind that Genova have one of the biggest historical center of Europe= ancient building) supposed to develop are (i.e.):

- thermal solar collectors on the roofs of sport centers,
- retrofitting for heating system,
- energy saving in school building,
- domotic-home automation,
- building regulation(at local level) that adopt the UE Directive 2010/31 of Energy Efficiency.

The development of this (and other) sub-action in building sector would produce a CO2 reduction foreseen of almost 7% (until 2020).

Building regulation of the Municipality are designed to reduce energy consumption and CO2

emission by means of measures for new and existing buildings, with the introduction of more stringent requirements than those currently in force at regional and national level in Italy.

- The **NEW building** should be in A Energy Class
- In the **EXISTING building** should be installed Thermostatic Radiator Valvs (not only in case of maintenance, but there is a commitment (within 2013) for all centralized heating.

The complementary sub-action intended to help reach the ultimate energy saving objective are as follows:

- information campaigns dealing with the new requirements introduced in the building regulation
- refresher/upgrading courses for property managers
- document checks so as to ensure the correct application of the building regulation on the part of architect
- work in progress inspections
- checks of the correct application of energy certification.

In this direction goes also the several UE project; here only to mention some of them :

- **ELHIMED Project** (MED) Environmental policies, energy policies, citizen participation in energy efficiency in Social housing (www.elih-med.eu)
- **VERYSCHOOL project** (CIP): Action of Energy Efficiency in School buildings (www.veryschool.eu)

..... and the 3 project that Genova won in the 2011 in 7^oPQ Call "Smart cities and communities"(the activities will start in January 2013):

- **TRANSFORM**: planning SEAP/PEAP and experimentation in a district area of smart technologies and structure
- **R2CITIES**: action of Energy Efficiency in Social housing in Genova
- **CELSIUS**: District heating and cooling in a specific district of the City

www.genovasmartcity.it

www.urbancenter.comune.genova.it

www.comune.genova.it

www.eumayors.eu/about/signatories_en.html?city_id=492&seap