

- Category: intervention on new construction in the Ligurian landscape
- Case Study: photovoltaic system terminal Costa Cruises Savona

● ● ● **ITALY**
Province of Savona



Project cofinanced by



European Regional
Development Fund



L'Europe au Méditerranée
Europe in the Mediterranean

Lead Partner



Provincia di
savona



Sustainable
Construction
in Rural and Fragile Areas
for Energy efficiency

- Category: new construction
- Case Study: photovoltaic system terminal Costa Cruises Savona



Savona dock floor plan, view of photovoltaic system

Client: SV Port Service srl – Savona
Project: Study architecture *Arch. Alberto Natale - Savona*
Constructor: Borea 2 Spa – Sanremo (IM) / OLF Galdi Marco – Vado L. (SV)

Year: 2011

● ● ● Context

The city is located on the Riviera Ligure di Ponente, where the rivers Lavanestro and Letimbro and at the junction of two highways: Highway Flowers - linking Genoa to Ventimiglia - and the motorway A6 Torino-Savona. The climate is temperate Mediterranean-type start with a continental influence to the hinterland. Summer is moderately hot but rarely humid. During the winter in Savona alternating periods with sunny days and temperatures not too low when Liguria is protected dall'Anticiclone the Azores to the more rigid form when Low pressure over the Gulf of Genoa. The scope of action highlights the potential use of port facilities normally located in open areas, generally with no shadows from other buildings, as happens in cities and usually not subject to particular constraints landscaping and / or architectural.

● ● ● Description

Sul tetto del Palacrociere, il terminal crocieristico operato dal gruppo Costa Crociere nel porto di Savona, è stata completato l' impianto fotovoltaico. L'impianto, costato circa 550mila euro, entrato in esercizio il 15 marzo 2011 ha una potenza totale di 120,96 kW. Si stima che la sua produzione annua di energia elettrica sarà di 130 MWh (megavattora) pari a circa 1/5 del fabbisogno annuo del Palacrociere.

L'opera, che ha ricevuto una doppia autorizzazione da parte dell'Autorità Portuale e del Comune di Savona, è stata finanziata da S.V. Port Service con la collaborazione di Costa Crociere ed è stata realizzata da Borea Due Spa.

- Category: new construction
- Case Study: photovoltaic system terminal Costa Cruises Savona



View from above
ground north-west,
south-eastern aquifer



● ● ● Evaluation

The project is part of the environmental policy of the Port Authority of Savona in reducing consumption and using renewable sources of increasingly massive. On a similar line is moving in the port of Savona Monfer that the terminal also will install a short experimental facility which will then be extended throughout all the sea side of the roof of the sheds.

- The estimated energy production: 131,000 kWh / year

- the date of entry into operation: 15/3/2011

- the number of PV modules:

ground south-east 320 x 270 Wp polycrystalline silicon Suntech Power (625 m)

north-ground west 120 x 288 Wp amorphous silicon triple-junction solar Sunerg (720 m)

the number of inverters:

ground south-east 16 - Delta SOLIVIA 5.0 aquifer

Northwest6 SMA Sunny Mini power packs 5000 A

● ● ● Potential for transferability

The photovoltaic part of a policy environment to reduce consumption and use of renewable sources is found to have massive potential to transfer especially in places such as harbors, popular in the Mediterranean that has particular geographical features, where you can harness solar energy in most of the year without major physical impediments or regulatory constraints.

Project cofinanced by



European Regional Development Fund



Lead Partner

- Province of Savona (ITALY)



Project Partner

- Region of South Aegean (GREECE)
 - Read S.A. (GREECE)
- Local Energy Agency Pomurje (SLOVENE)
- Agência Regional de Energia do Centro e Baixo - Alentejo (PORTUGAL)
- Official Chamber of Commerce, Industry and Shipping of Seville (SPAIN)
- Rhône Chamber of Crafts (FRANCE)
- Development Company of Kefalonia & Ithaki S.A. - Kefalonia (GREECE)
- Chamber of Commerce and Industry Drôme (FRANCE)
- Cyprus Chamber Of Commerce and Industry (CYPRUS)
- Chamber of Commerce & Industry Marseille Provence (FRANCE)

