

## SUCCESS STORY

LAKE GENEVA STEAMBOAT  
COMPANY'S NAVAL SHIPYARD

Lausanne, Lake Geneva, Switzerland



## INSTALLATION

Customer	ALPIQ InTec Romandie S.A.
Owner	Lake Geneva Steamboat Company (CGN)
Investisseur	SI-REN (City of Lausanne)
Project	Lake Geneva Steamboat Company's Naval Shipyard
Location	Lausanne, Switzerland
Rated System Power	360 kWp
Module Type	Yingli PANDA 60 Cell Monocrystalline YL265C-30b
Connected	December 2013
Installer	ALPIQ InTec Romandie S.A.

## TECHNICAL SPECIFICATIONS

Number of Modules	1330 Yingli Solar PANDA panels
Number of average homes powered <sup>1</sup>	Equivalent to 140 average homes powered
CO <sub>2</sub> -savings approx. <sup>2</sup>	About 46.55 tonnes of CO <sub>2</sub> /year

<sup>1</sup> Source: Federal Electricity Commission (ElCom) [www.strompreis.elcom.admin.ch](http://www.strompreis.elcom.admin.ch).

<sup>2</sup> Source: Swiss simulation calculations (avoided production of the equivalent of 133g of CO<sub>2</sub> per kWh), based on 2013 OFEV data (Federal Environment Office of the Swiss Confederation).

A SOLAR «POSTCARD»  
FOR THE CITY OF LAUSANNE

The City of Lausanne, through its renewable energy development entity SI-REN, quickly identified the high solar potential offered by the roof of the Steamboat Company's naval shipyard. The roof surface, orientation, water-tightness and ability to inject the electricity generated into the power grid gave every indication of a peak-performance photovoltaic project. This led SI-REN to launch a public procurement tender, with the watchwords being high performance and long-term durability. The contract was awarded to the Alpiq installer using Yingli Solar PANDA high-performance monocrystalline panels. The result after three months of work and perfectly coordinated administrative formalities: a facility that is profitable for its investor with a generating capacity of 350 MWh/year re-injected into the power grid. For the Steamboat Company, it is also an environmental tool that will enable it to sustainably harness the sun's potential for the facility's (minimum) 25-year life. And for the City of Lausanne, it is a « postcard » facility and a showcase of solar energy, but also a step forward in its overall environmental approach, given that it is classified as « Energy City », a Swiss quality label for the implementation of cities' energy and environmental policies.

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**Renewable energy production and energy savings incentives take on their full meaning in a coordinated urban policy.**

“ Gradually, Lausanne is being transformed. New sustainable districts [...] will make it possible to achieve the 2,000-watt society at the local level [editor's note: meaning a low-energy consumption society]. Coupled with geothermal and renewable solar and wind-based electricity projects, these districts will aim for energy independence. This concept can then be extended to all new buildings constructed in the city and, depending on the case, to renovated buildings. ”

– Jean-Yves Pidoux, Councillor, Lausanne.



<sup>3</sup> Source : [http://www.citedelenergie.ch/fileadmin/user\\_upload/Energiestaedte/lausanne-vd/dateien/weitere/Fiche\\_informative\\_Lausanne.pdf](http://www.citedelenergie.ch/fileadmin/user_upload/Energiestaedte/lausanne-vd/dateien/weitere/Fiche_informative_Lausanne.pdf)

## DETAILS ABOUT THE PROJECT

- The photovoltaic facility will generate 350 MWh of green electricity per year for 25 years.
- Construction of the facility took Alpiq three months and no problems were encountered during its completion.
- The measures taken under the City of Lausanne's environmental policy resulted in streamlined administrative formalities.
- Re-injection of the electricity produced by the facility into the power grid will help to protect SI-REN against fluctuations in electricity costs for 20 years.
- Lausanne is classified as a Gold Energy City<sup>3</sup>. This facility is fully in line with its energy and environmental policy.

Eq. to the annual electricity consumption of

**140** homes



Carbon savings eq. to the annual CO<sub>2</sub> emissions of

**16** cars

