SOLAR POWER FOR NURSING HOMES

Solar Data Systems

Solar-Log™

An example from northern Germany

*A*nchors symbolise hope and homecoming, they represent the certainty that one will always return home, to one's haven. The Ankerpunkt (Anchor Point) offers a calm haven from where everything is possible. A place for joy, strength and hope. (Motto of the nursing home "Ankerpunkt" in Flensburg).

Sustainably produced green electricity is always a winner. A Solar-Log project from northern Germany shows how everyone involved benefits from clean, self-generated electricity. In this case, it's the home-owner, tenants and the Stadtwerke Flensburg municipal utility company who can enjoy a win-win-win situation.

Nursing home owner Stefan Boysen has installed generously sized photovoltaic systems on two of the buildings at the residential home, naturally with storage. The system's power production is monitored by Solar-Log's regional partner DS Elektrotechnik, an experienced and committed company in the solar and electrical engineering fields. "A nice project," confirms the company's owner Dirk Skrydstrup. He's long been a staunch advocate of photovoltaics, and is thus a perfect fit as a Solar-Log partner. "What was unusual was that we were providing visualisation for such a large installation with around 80 residential units in total," says Dirk Skrydstrup. Together with the Solar-Log experts, he put together the customised visualisation and monitoring package for the project.

The Solar-Log Base 100 hardware components with total consumption measurement and storage management are used. In addition, an Gateway Solar-Log 50 and a Solar-Log™ PRO380 consumption meter are installed for each residential unit. In this by no means straightforward project, the selected hardware products from Solar-Log and the professionally visualised power consumption and production on Solar-Log WEB Enerest™ 4 portal (including the new app) enable the KfW 40 Plus energy efficient construction requirements for visualising green power production and the respective personal consumption values to be met in an exemplary manner. The power production and consumption are displayed in 15-minute values. Thanks to the professional visualisation, there was also corresponding government support for the investment, which can certainly serve as a model for other comparable projects.

In addition to the sizeable subsidy, another advantage for owner Stefan Boysen is that he doesn't have to do time-consuming billing for each individual tenant. Stadtwerk Flensburg acts as the leaseholder of the photovoltaic systems, which enables it to sell its regional electricity to the tenants and generate long-term customer relationships. The tenants, in turn, are delighted to have a favourable electricity tariff and are doing their bit for the environment by purchasing clean green energy.

In the Ankerpunkt nursing home in Flensburg, people are lovingly cared for and live there in small residential groups. It's not necessarily just senior citizens who live here but also young people with special care needs. Ankerpunkt enables them to manage their everyday lives as independently as possible, including with comprehensive medical and therapeutic support. Residential accommodation for young people and inpatient care for the elderly go hand in hand. At Ankerpunkt there are almost 30 places for senior citizens in need of care. In addition, there are about a dozen other residents aged 18 and over who have increased care needs as a result of an illness or accident.

Which components are used?

Logbook:

1. Project Tastruper Weg 40, Ankerpunkt 40 care home: Building with 15 flats and 28 rooms. A PV system with an output of about 60 kWp is installed.
➔ 1 x Solar-Log Base 100 with total consumption metering
➔ 15 x Solar-Log™ PRO380 sub-consumption meters
➔ 28 x Gateway Solar-Log 50
➔ 28 x Solar-Log™ PRO1 consumption meters for the rooms.

2. Project Tastruper Weg 42, Ankerpunkt 42 care home: Building with 23 flats and 15 rooms. A PV system with an output of about 90 kWp is installed.
➔ 1 x Solar-Log Base 100 with total consumption metering
➔ 23 x Solar-Log™ PRO380 sub-consumption meters
➔ 38 x Gateway Solar-Log 50
➔ 15 x Solar-Log™ PRO1 consumption meters.