

# CASE STUDY

## Venco Campus - The Largest Commercial PV System in The Netherlands

Maximum Power, Enhanced Maintenance & PV Safety

### OVERVIEW

**Installer:** AliusEnergy BV

**Installation Date:** July 2012

**Location:** Venco Campus, Eersel, The Netherlands

**Installed Capacity:** 1.63 MWp

**Modules:** 5,712 x Trina Solar: TSM-PC14-Utility Solution 285Wp

**Power Optimizers:** 5,712 x OP300-MV

**Inverters:** 119 x SE12.5K

The Netherlands is known worldwide as one of the most innovative countries in the field of poultry. Therefore, it is only fitting that the Venco Campus, the new main office of the Venco Group, a leading conglomerate in the poultry sector, has been built in the form of an egg and will serve as an international center for the poultry industry.

It was crucial to the owner that the construction of the egg-shaped building excel in meeting high standards of energy use, pollution minimization, ecological enhancements, and water consumption. Therefore, utilizing solar energy was vital in order to sustain all energy activities within the building. AliusEnergy partnered with SolarEdge for the most effective solution for this complicated design, placed at a height of 14 meters and covering a surface of 11,424 square meters.

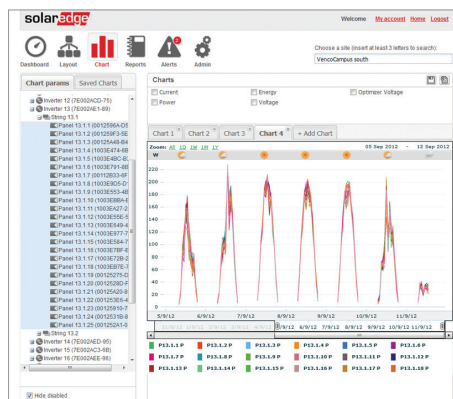
**The SolarEdge system was ideal for this installation as it offered multiple benefits:**

#### Maximum Power Harvesting through Module-Level MPPT

SolarEdge power optimizers perform per module maximum power point tracking (MPPT), eliminating power losses due to mismatch between modules as each module is managed individually. Mismatch due to soiling, module aging and inherent variance is overcome, leading to up to 25% more energy production and faster return on investment.

#### Cost Reduction through Flexible Design

The SolarEdge system allows for longer strings and strings of different lengths which enable maximum roof utilization and a reduction in cables, combiner boxes and other Balance of System costs.



*The SolarEdge monitoring portal displays the real-time performance data for each individual module and for the whole system*

#### Maintenance Cost Reduction through Module-Level Performance Monitoring

Power optimizers provide real-time performance data on each individual module and give immediate alerts on any irregularities that may occur, pinpointed on a virtual site map. This leads to a further increase in system yield and reduced maintenance costs.

#### DC Safety

The built-in SafeDC™ feature of the SolarEdge system automatically shuts down a modules'

voltage whenever inverter or grid power is shut down. This mechanism ensures maximum DC safety for installers, maintenance personnel and firefighters.

**"By using the SolarEdge system, The Venco Group achieved their goal for an innovative solution that minimizes the environmental impact of the Venco Campus and provides safe and sustainable energy."**  
Ton van de Ven of AliusEnergy