



BAE Systems Hägglunds Örnsköldsvik, Sweden

Two birds with one stone: Employing
PV self consumption to reduce energy
costs and for façade refurbishment

370^MkWp
System

165,000^{KG} CO₂
Emissions avoided

1,465
modules

Façade-
mounted
PV system

“We chose to work with Trina Solar for long-term security, due to the company’s reputation as one of the largest manufacturers of solar panels. Thanks to their high performance black PV modules, we now have a cutting-edge solution that is both energy-efficient and aesthetically pleasing.”

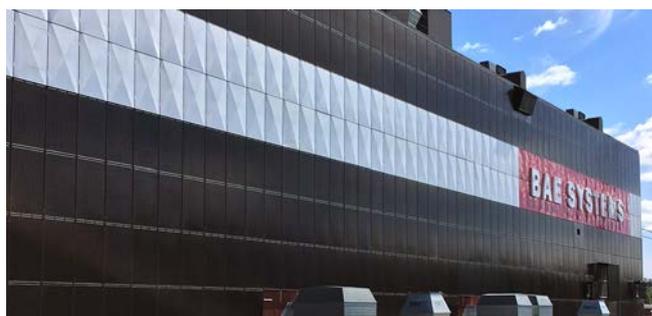
Sören Holmström, Electrical Manager at BAE Systems Hägglunds

BAE Systems Hägglunds, a subsidiary of Swedish defence contractor BAE Systems AB, needed to replace the aging façade of its main facility in Örnsköldsvik. Sensing an opportunity to combine this essential maintenance task with reducing power costs and embracing innovative renewable energy sources, BAE Systems Hägglunds chose to implement a PV installation to double up as a new façade.

To bring this project to fruition, BAE Systems Hägglunds chose to partner with Trina Solar, distributor Selga (part of the Rexel Group) and engineering firm Goodtech. After Selga proposed the façade-integrated solution, Trina Solar was able to assist in providing a forward-thinking solution that was both functional in terms of



power yield and effective in terms of its aesthetic appeal. The installation process included a full review of the BAE Systems Hägglunds facility, resulting in Trina Solar’s cutting-edge Honey M technology being employed to maximise yield in all conditions, including low-light performance.



The completed project has enabled BAE Systems Hägglunds to make pioneering changes to the way it powers its facilities, as well as improve its external appearance. With a projected annual energy output of 312 MWh, fully consumed on site, the new installation is set to significantly reduce the company’s reliance on non-renewable energy sources.

Trina Solar Honey M Black PV Module

The monocrystalline DC05A.05 Honey M Black module and its next generation successor, the DC05A.05 (II) Honey M Plus Black module, are recent additions to Trina Solar’s innovative Honey series. Thanks to the addition of Passivated Emitter and Rear Cell (PERC) technology, the module offers an average cell efficiency of up to 17.7%, enabling greater energy production and better performance, even in low-light environments. Its full black appearance is aesthetically pleasing.

This product is also equipped with advanced 5-busbar technology, which provides the added advantage of lower series resistance, increased cell-to-module ratio and enhanced reliability.

BAE Systems Hägglunds

LOCATION

Örnsköldsvik, Sweden

SYSTEM TYPE

Façade-mounted PV system

SYSTEM SIZE

370 kWp

PRODUCT

TSM-DC05A.05 Honey M Black 265Wp

NUMBER OF MODULES

1,465

ANNUAL ENERGY OUTPUT

312 MWh

COMPLETION DATE

November 2015