CASE STUDY

Floating PV Installations

DESCRIPTION

Floating PV Installations are designed as a fully integrated PV solution for lakes and dams. The environmental impact of the PV installation is being considers at every stage. “Our network of certified partners provide support from project idea to implementation and beyond.”

The installation is designed as a complete system with integrated inverter boats, gang- and maintenance ways, cable ducts, wave barriers, plant boats, and floating transformer stations. The design is realised with durable materials for long-term energy generation.

PV-Floats

Location: Germany, Belgium, Netherlands

DETAILS

- SECTOR:

  Solar

- PRODUCTS:

  ZAVFUL35.250
  ZAVFU85.150
  ZMKPVFL35

- DATE:

  July 2023

The floating PV system uses a steel mounting structure with Atkore Defender, a unique, durable, and environmentally friendly corrosion protection coating. Static and dynamic calculations are performed for each project individually.

In total, the contractor already realized 23 of these projects, resulting in 258MWP installed capacity or 92.514 tons CO_2 emissions saving.

CHALLENGES

The system is based on floating devices that are 5 meters long. With wire baskets in standard lengths of 3 meters, this resulted in 1 meter of waste per float (or almost 17%).

SOLUTION

To solve this issue, the team designed and manufactured wire baskets in bespoke lengths. Each wire basket is being coupled with a snap quick-joiner.

This tailormade solution, combined with the quick responses of both sales and product development, gave us the edge we needed to cater to the needs of the client.