

IBC SOLAR PV system improves living conditions in fishermen's village in Southern Morocco

National Fishery Office invests in PV hybrid installation to boost modernisation

Boudjour / Morocco, May 28, 2018 – IBC SOLAR AG, a global leader in photovoltaic (PV) systems and energy storage, and its Moroccan partner company SEWT sarl (Sun Energy and Water Technologies), have delivered and installed an off-grid PV hybrid system with a capacity of 126 kWp ordered by the National Moroccan Fishery Office (Office National des Pêches – ONP). The system consists of 500 photovoltaic panels combined with batteries and diesel generators and is located in Aftissat, a fisher's village in the province of Boujdour (Southern Morocco). After one and a half years of producing and storing clean solar energy, the system has helped to increase the living conditions of the fishermen and has reduced diesel costs as well as CO2 emissions significantly.

With an annual production of 233,000 kWh, the system is able to cover the daily energy needs of the fisher's village every day of the year. Refrigeration, cold storage units, shops and domestic infrastructure constantly consume around 600 kWh electricity per day. The PV hybrid system has been designed for autonomous self-consumption and helps to reduce diesel costs by 95 percent and CO2 emissions by 99 percent. The whole system is PV centralised, therefore diesel generators are still part of the system but only needed as a back-up in times of low irradiation or low batteries. Thus, for the fishermen a secure and clean power supply was realised. This means a significant improvement in living and working conditions.

The off-grid installation in Aftissat is composed of 504 IBC PolySol 250 CS solar modules, 18 inverters by SMA and batteries with a storage capacity of 800 kWh. All components except for the batteries have been delivered by IBC SOLAR and installed by the local experts of SEWT, who were also responsible for the system's overall design.

PV hybrid solutions offer a crucial advantage compared to pure diesel systems: the diesel consumption is massively reduced because the diesel generator is only used in periods of low irradiation. Furthermore, wear and tear as well as maintenance costs are considerably lowered. As a result, plant operators are largely independent from fossil fuels and soaring diesel prices. CO2 emissions are also reduced and operators are consequently protecting the environment.

The project was commissioned by Morocco's National Fishery Office in order to contribute to Morocco's national green energy plan. This includes a growing development of wind, solar and hydro energy, and the reduction of fossil fuel subsidies. It is scheduled to increase the share of renewable energies within the energy mix to 42 percent by 2020 and to 52 percent by 2030. The fishing industry in Morocco is a leading foreign exchange earner, accounting for 16 percent of total exports. The National Fishery Office strongly intends to boost the modernisation of the domestic fishery sector.

More information on the company's international services, as well as on further news and product highlights from IBC SOLAR, can be discovered at the Intersolar Europe (Munich, June 20 to 24, 2018), Europe's leading trade fair for solar technology, in hall A3, booth 579.

Project Details:

Location:	Boujdour, South-Morocco
Consumers:	Fishing village domestic infrastructure
Inverters:	6 SMA STP 20000TL, 12 SMA SI-8.0
Modules:	504 IBC PolySol 250 CS
Batteries	800 kWh (OPzS)
Performance:	126 kWp
Electricity production:	233,000 kWh/year
CO2 reduction:	approx. 200 tonnes/year
Investor	National Fishery Office of Morocco (Office National des Pêches – ONP)
Start of operation:	October 2016
Project planning:	SEWT sarl
Installer:	SEWT sarl

About IBC SOLAR

IBC SOLAR is a leading global provider of photovoltaic and energy storage solutions and services. The company offers complete systems and covers the entire product range from planning to the turnkey handover of photovoltaic systems. The product range comprises solar parks, self-consumption systems for commercial enterprises and private households, off-grid photovoltaic systems and diesel hybrid solutions. As a project developer and general contractor, IBC SOLAR implements and markets major solar projects worldwide. The manufacturer-independent system house guarantees the highest quality for all projects and has currently implemented photovoltaic systems with an output of over 3 gigawatts worldwide. IBC SOLAR works with a close network of Premium Partners and supports them with their own software tools for planning and designing grid-connected systems including storage systems. IBC SOLAR offers customised packages for energy providers, municipal utilities and providers of photovoltaic solutions. The company ensure the best possible output of solar parks through technical management and monitoring.

IBC SOLAR was founded by Udo Möhrstedt in Bad Staffelstein in 1982 who has managed the company as the Chairman of the Executive Board to date. The system house is a pioneer of the energy turnaround in Germany and is especially committed to energy cooperatives with its own planned public solar parks. The company is active internationally with numerous regional companies, sales offices and partner companies in more than 30 countries.

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About SEWT sarl

SEWT (Sun Energy and Water Technologies), founded in 2011, has specialized in the design of renewable energy systems, especially solar energy and water pumping systems. SEWT offers its customers a wide range of services assuring turnkey installation: technical and financial analysis of projects, including schematic diagrams, technical feasibility and detailed studies; assistance in choosing solutions; attendance in the implementation of projects; providing of technical equipment.

Contact

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