

25 June 2021

BORUSAN CAT EXTENDS ITS RENEWABLE ENERGY SERVICES WITH SOLAR SYSTEMS

Borusan Cat expands its engineering experience with more 25 years in energy sector with solar system projects. Starting the process with a transformation of its own facilities, Borusan Cat is developing solar projects in 6 countries and reducing its carbon footprint to zero.

Borusan Cat has engineering and application experience in cogeneration, trigeneration, biogas, and landfill gas projects over 25 years. Currently, the company is expanding its solutions with turnkey solar projects in Kazakhstan, Azerbaijan, Georgia, Kyrgyzstan, the Russian Far East, and Turkey with a motto of creating solutions for a better world.

While offering hybrid alternatives to its existing business partners, Borusan Cat provides engineering and application proposals for PV panels, inverters, and energy solution systems with Cat quality to its potential customers. Additionally, Borusan Cat offers solutions to meet customer needs for those who come up with different brand demands.

An environment-friendly opportunity for investment

The interest in solar systems is rising parallel to the ever-growing need for renewable energy around the world. Besides being an environment-friendly approach, solar systems are advantageous because the initial investment cost is further reduced year by year with the advancing technology. Also, evolving energy storage systems and low maintenance and spare parts costs make the amortization periods shorter.

Nowadays, solar systems can be used in high-power land applications and low-power rooftop and land applications. It is anticipated that these applications will increasingly continue in the future.

Hybrid and Microgrid Opportunities with Solar Systems

On a global scale, government incentives are granted to existing power plants for increasing capacity and efficiency with renewable energy sources. Regardless of the availability of such incentives, solar system services offered by Borusan Cat are a significant investment opportunity for energy producers who want to use their entire license capacity.

Hybrid systems offer an opportunity to produce energy by different energy production sources in the same system. Thanks to such diversity in sources, sustainability of energy and cost optimization is ensured. Hardware and software capabilities are also available to coordinate these sources most efficiently.

On the other hand, Microgrid systems provide energy production, usage, and storage by building up a cost-effective network in areas with insufficient energy or no network available. In this context, in addition



to conventional Cat generator sets and Cat solar system components, Borusan Cat offers the Cat MMC, the main system controller, along with energy storage systems. With the help of MMC, generators within the microgrid system and the energy generated from solar systems can be controlled and reported through a single screen. Also, Cat energy storage systems make it possible to store the excess energy to be transported or used, if needed.

Producing energy at the place of consumption is a continuously increasing and crucial trend in the world to reduce lost energy and avoid the limitations of energy infrastructure. Soon, as microgrid systems continue to improve, this trend will turn into a structure that can apply to any circumstances, instead of being preferred in places where no grid is available.

The company continues its efforts to make solutions preferable in the future as well. In this sense, Borusan Cat aims to deliver better services to its business partners with optimized cost and efficiency through constantly improving hardware and software components used in its systems.

Borusan Cat Reduces Its Carbon Footprint to Zero!

PV panels, inverters and energy storage systems which are among the critical components of solar systems are manufactured with Cat® quality in line with the state-of-the-art technology. Borusan Cat also provides engineering and application services to customers with different brand demands.

The company is committed to exceeding its customers' expectations with the solutions offered. While doing this, Borusan Cat strives to stand out as the company that performs the first applications in the sector.

Having started its solar transformation primarily in its facilities, Borusan Cat is installing a rooftop solar system at its Adana plant, which will be realized in the last quarter of 2021 as planned. Each 1MWp solar system eliminates 530 tons of CO2 emission annually. In line with this objective, solar feasibility studies for other Borusan Cat facilities continue at full steam.