

Going green where East meets West



Yaşar Makina is a machine manufacturer for the agricultural industry, based in Ipsala, a town to the north west of Istanbul in Turkey. The company is part of the Yaşar Group, a large corporation with interests spanning from food & beverage to fertilizer, paint and tissue paper. Yaşar Makina's machinery feature a variety of tools designed to increase efficiency and productivity, such as rice processors, grain dryers, hazelnut cleaners and stone separators. They are exported to agricultural businesses in over thirty countries worldwide.

The Ipsala factory also comprises a rice processing plant where the company's products are tested and continually improved. Alongside its main purpose of testing agricultural machinery, the plant processes 150 tons of rice per day, consuming a large amount of electricity. Until recently all electricity was sourced from the local grid network. Acting on their ambition to be less reliant on power supplied by the grid, Yaşar Makina started looking for a suitable alternative. The solution presented itself in the shape of a EWT DirectWind54-900kW wind turbine. After a seamless construction stage, the company's EWT wind turbine was successfully commissioned in June 2016. It is connected to the factory's substation, reducing the company's reliance on fossil fuels and grid-connected electricity as well as decreasing their energy costs.

Yaşar Makina CEO Mustafa Polatcan said: "Our innovative machine building business is a perfect fit to EWT's distributed power strategy. We are very happy with the support we received from EWT, from start to finish. By offering an affordable alternative to the use of fossil fuels, renewable energy is making an important contribution to the Turkish economy".



EWT Yaşar Makina Case Study

Installed in June 2016, Yaşar Makina's EWT 900kW wind turbine is now providing a significant amount of the electricity that is needed to power their 150-tons-a-day rice processor. With that, the wind turbine constitutes a prime example of how harnessing local renewable energy sources can make a tremendous contribution to local businesses. A private cable connects the wind turbine to the substation, overriding grid power use when the wind is strong enough to allow the wind turbine to generate electricity. This solution is known as distributed generation; electricity generated on-site, at the point of consumption.

Distributed generation reduces local businesses' reliance on large power plants which serve a large number of consumers through the national grid network. Decentralising power production eliminates the cost, complexity, interdependencies and inefficiencies associated with the transmission and distribution of electricity from large power plants. At Yaşar Makina, the wind turbine provides a reliable, alternative source of energy and therefore much-needed security of supply. It is EWT's first operational wind turbine in Turkey, with many more to follow.

Benefits to the company and wider community

- The EWT DirectWind54-900kW wind turbine provides renewable electricity to power Yaşar Makina's rice processing plant, which processes 150 tons of rice per day
- As a distributed or decentralised power source, there are no transmission losses: all on-site generated power feeds right into Yaşar Makina's factory substation
- Wind power is 100% renewable and by reducing grid-connected electricity use - which is largely built up of electricity generated by large, fossil fuel-fired power stations - Yaşar Makina reduces its carbon footprint by approximately 1,000 tonnes of CO₂ every year (source: RenewableUK)
- The EWT wind turbine provides continuity and security of supply by generating zero-carbon power right there where it is needed
- The wind turbine is expected to have an operational life of 20-25 years
- Yaşar Makina and EWT have agreed a long-term maintenance and service contract. Service and maintenance works are carried out by EWT's local service team, whilst 24/7 monitoring takes place remotely from EWT's control room in The Netherlands.



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