

THE SOMA - WINDFARM - PROJECT



Today we are introducing you to a particularly interesting project that has a significant impact on the supply of renewable energy in Turkey - the Soma Wind Farm Project. The Soma wind farm is an onshore wind power plant in the Soma district of the Manisa Province in the northwestern Aegean Sea in Turkey. It is built in two construction phases and consists of **119 wind**

turbines with a total installed capacity of 140.4 MW, making it one of the largest wind farms in Turkey.

The Manisa region is a province of Turkey with an area of 13,120 km² and a population of almost 1.4 million people, of which around 300,000 live in the provincial capital Manisa.

The Soma Wind Farm was built in two phases, called Soma-1 and Soma-2. The average annual energy production is 405 GWh. The cost of the project was 170 million euros. It was completed and put into operation in January 2012.

The first phase, consisting of 88 wind turbines **with a total installed capacity of 79.2 MW** from Enercon, **cost € 100 million** and was commissioned in December 2010. Each of the E-44 turbines with a rotor diameter of 44 m and a hub height of 55 m generate an **output of 900 kW**. 50 of the wind turbines are located on steel towers, while the rest are installed on prefabricated concrete towers.

In the second phase, 31 wind turbines were erected, which generate 2.3 MW with a rotor diameter of 71 m and a hub height of 63 m each. In the second phase, the wind farm's electricity capacity was expanded by 60.9 MW.

The area has extreme winter conditions that cause the rotor blades to ice up. To prevent this from happening, some turbines are equipped with a de-icing system. Soma Wind Farm is the only wind turbine in Turkey that feeds 380 kV electricity into the grid. The project supplies almost the entire region with climate-neutral, renewable wind energy.

The climate-neutral power generation of **the hydropower plant saves 168,224 tons of CO₂** or its equivalent in other greenhouse gases **per year**; the project will receive the same amount of CO₂ certificates for seven years.

The project standard is a project based on the so-called gold standard, which due to its high requirements is one of the most outstanding. The highest quality standards apply worldwide and their certifications are so-called verified emissions reductions (VER, Verified Emission Reductions) are called. A Gold Standard-Standard certificate certifies the reduction of one ton of CO₂ or its equivalent in greenhouse gases.

The proceeds from the sale of these emissions certificates from this project have provided the necessary financial incentive to invest in this emissions reduction project to be carried out. Without the income from the certificates, this project would not have been developed and could not be continued, which would affect the global climate would further advance warming. With the commitment



by deleting the desired amount of certifications, you ultimately contribute to the financing of this project and thus relieve the climate global level. Each certificate, which certifies the avoidance of one ton of CO₂ emissions, saves greenhouse gas emissions, as these do not even enter the atmosphere get to the sphere.

We can offer you this interesting project at a very competitive price per certificate (depending on the desired volume). We would be happy to help you calculate your “carbon footprint” for your household, your company or your event and give you suggestions, how you can reduce your carbon footprint by taking appropriate measures.

If you are interested, simply send us an email to mail@advantag.gmbh and we will send you access to the complete project documentation. If you do not want to carry out the deletion yourself, we would be happy to offer you this service and accept the issue of emissions in the respective register on your behalf.

Didn't we introduce you to the right project this time? Send us an inquiry and tell us your specific ideas regarding the type of project, the respective standard and the price you want - we are sure to find the optimal carbon offsetting project for you too.

Advantag GmbH
Glockengasse 5
47608 Geldern

 +49 (0) 2831 1348230

 +49 (0) 2831 1348227

 www.advantag.gmbh

 mail@advantag.gmbh