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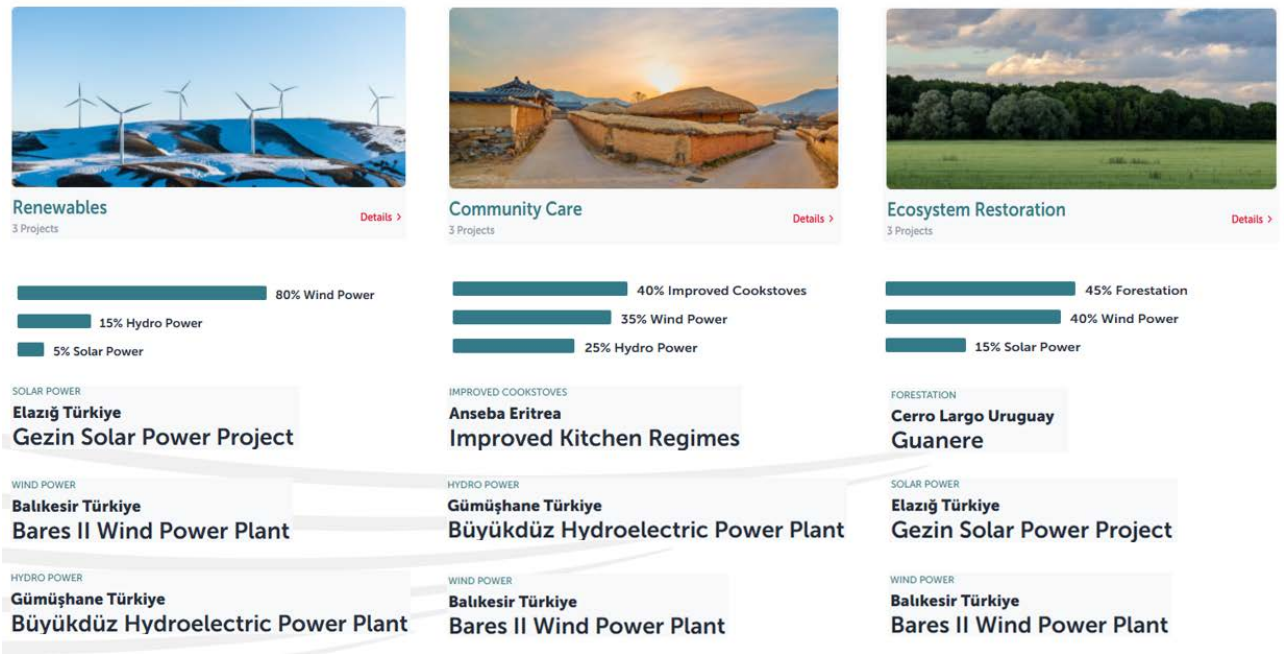
These projects are designed in accordance with international standards, accredited by the Gold Standard (GS) and the Verified Carbon Standard (VCS), which are among the most rigorous certification programs on a global scale.



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TURKISH AIRLINES

Projects


Guanere


Gezin Solar Power Project


Bares II Wind Power Plant

FORESTATION

Cerro Largo Uruguay
Guanere

419,924.03 kg
CO_2 Emission

The project's main objectives are wood production, land restoration, and carbon sequestration through afforestation. All practices of the project are compliant with the Forest Stewardship Council (FSC) standard for sustainable forest management. This forest plantation project classifies as a Verified Carbon Standard (VCS) category of Afforestation, Reforestation, and Revegetation (ARR). Its implementations are based on establishing forests on land that had previously been under grassland for more than 50 years. The project will comprise a total of 21,298 ha of land with a long history of grazing by beef cattle, an activity that has caused soil erosion and land degradation. The forest plantations within this area provide high-value, long-lived timber products and sequester large amounts of carbon dioxide from the atmosphere. The project activity will remove a total amount of 7,644,973 tCO_2 in 60 years. It means an average of 127,416 tCO_2 removals per year.

STANDARD VCU
VERIFIER Rainforest Alliance

Projects


Guanere


Gezin Solar Power Project


Bares II Wind Power Plant

SOLAR POWER

Elazığ Türkiye
Gezin Solar Power Project

195,452.85 kg
CO_2 Emission

Gezin Solar Power Project is aimed to generate electricity from a renewable energy source, namely, solar, to feed the Turkish national grid. The project is located in the Maden district of Küçükova village, in the Elazığ province of Türkiye. This project includes installing and operating four solar power projects as a bundle. The project has a total capacity of 3.83 MWe. It has an estimated net electricity generation of 6963 MWh per year. The project utilizes solar energy as a renewable and clean alternative to fossil fuels in electricity generation. As a result of replacing fossil fuels that emit greenhouse gases (GHGs), the project is responsible for reducing 3,952 tonnes of CO_2e per year. The project involves environmentally friendly technologies and a renewable energy source which do not emit GHG emissions in electricity production.

STANDARD VCU
VERIFIER Re Carbon

Projects


Guanere


Gezin Solar Power Project


Bares II Wind Power Plant

WIND POWER

Balıkesir Türkiye
Bares II Wind Power Plant

521,207.6 kg
CO_2 Emission

Bares II Wind Power Project is developed by a local company in Türkiye. The project consists of a wind power plant located in the Balikesir province of Türkiye, near the coastline of the Marmara Sea. This project aims to generate electricity from renewable wind sources to feed the Turkish national grid. The project will lead to improved energy security by supporting further developments in the renewable energy industry. It will help replace fossil fuel based electricity production with reliable and efficient wind energy utilization. The project has been operational since 2006. It involves 20 units of GE1.55E wind power turbines with a total capacity of 30 MW. The project's power plant has an estimated electricity generation of 109.9 GWh per year. The project activity will result in the annual emission reduction of 71,710 tonnes of CO_2e.

STANDARD VER
VERIFIER RINA

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TURKISH AIRLINES

Projects

Gezin Solar Power Project

Büyükdüz Hydroelectric Power Plant

Bares II Wind Power Plant

HYDRO POWER

Gümüşhane Türkiye

Büyükdüz Hydroelectric Power Plant

3,169,541.55 kg
CO_2 Emission

Büyükdüz Hydroelectric Power Plant (HEPP) is a run-of-river type renewable energy power plant. It is located in the Eastern Black Sea regional basin, Black Sea Region, Gümüşhane province, Kurtun district of Türkiye. The project has an installed capacity 70.844 MWm / 68.862 MWe. Project activity will help replace fossil fuel based electricity generation of the plants feeding energy into the national grid. Without the utilization of this project, the same amount of energy would be generated by other power plants. Grid electricity generation is dominated by fossil fuel powered plants that result in greenhouse gas (GHG) emissions. In addition, no emissions will occur resulting from the project activities. Therefore, there will be a reduction of GHG emissions in energy generation, making it a zero-emission project. The project was commissioned and had been operating since 31 May 2012. It has an expected operational life of 35 years.

STANDARD VCU
VERIFIER TÜV Rheinland

Projects

Improved Kitchen Regimes

Büyükdüz Hydroelectric Power Plant

Bares II Wind Power Plant

IMPROVED COOKSTOVES

Anseba Eritrea

Improved Kitchen Regimes

759,752 kg
CO_2 Emission

Improved Kitchen Regimes Project involves the distribution of approximately 8000 fuel-efficient cookstoves to households within the Anseba district in Eritrea. These cookstoves are intended for domestic use. Biomass is used widely in rural areas of Eritrea as a domestic fuel. Consumption of biomass as fuel has led to deforestation, loss of biodiversity, and CO_2 emissions. The project aims to reduce wood fuel consumption through the domestic use of efficient cookstoves. The distribution of stoves started on 9th March 2015. The project will lead to a 60%-70% reduction in the wood fuel demand. Activities of the project will help stop environmental degradation and greenhouse gas (GHG) emissions. Moreover, the project will improve the living standards of rural communities and provide better health conditions, especially for the women and children who are managing the stoves. The project is in line with the National Energy Program of Eritrea, which aims to deliver environmentally sound energy services.

STANDARD VER
VERIFIER Sustaincert