

Turkey: Kardemir Bozyaka Wind Power Plant

Clean energy from wind power

Background

The construction of a wind farm will contribute to the sustainable development of Turkey's energy system by meeting the ever-growing demand for electricity in an environmentally friendly way. The project will contribute to the dissemination of state-of-the-art renewable energy technologies (REN). In this way, it will strengthen the pillars of Turkey's energy supply, which are based on an ecologically sound and domestically produced technology.

The project

The objective of the project activity is to inject carbon-neutral electricity into the Turkish power grid, thus reducing greenhouse gas emissions by replacing electricity from mainly fossil fuel power plants. The situation prior to the implementation of the proposed project activity is represented by the current and expected power generation mix supplying electricity to the Turkish grid. This mix is clearly dominated by fossil fuel-fired power plants. This situation is essentially the same as the baseline scenario, i.e., the electricity supplied to the grid by the project activity would otherwise have been generated by the operation of grid-connected power plants and by the injection of new generation sources into the grid.

Social Impact

In terms of social impact, significant positive employment effects are expected, particularly during the construction and installation phases, and not only directly through the employment of temporary construction workers, but also indirectly. Material supplies such as foundations, cables and access roads will be procured locally, so the project will also contribute to the employment of outside

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SDGS UN Agenda 2030	
   	

subcontractors. The operation and maintenance of the wind farm also have positive employment effects. The experience of operating a wind farm in Turkey helps build capacity and know-how on state-of-the-art REN technology.



Fig. Wind farm from another project

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