

## **Sustainable Use of Biomass to Assist the Development of Türkiye's Economy Towards Green Growth**

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**Abstract:** Biomass, being derived from organic materials, is considered a carbon-neutral energy source. Biomass energy is a more environmentally friendly alternative to fossil fuels in a manner of the natural carbon cycle. In this concept, there are some investigations and projects going on with respect to biomass potential and energy production in many countries. Sustainable Use of Biomass to Assist the Development of Türkiye's Economy Towards Green Growth project started in 2018 to evaluate the agricultural biomass potential in Türkiye in cooperation with the Ministry of Agriculture and Forestry, General Directorate of Agricultural Research and Policy (TAGEM) and the United Nations Industrial Development Organization (UNIDO) and financed by the Global Environment Fund (GEF). The project aims to reduce greenhouse gas emissions while increasing energy performance and competitiveness by triggering sectoral transformation with the applications of modern bioenergy technologies in the agricultural industry. Shaped within the framework of combating climate change, the project aims to increase the biomass potential of agricultural residues with sustainable and repeatable strategies; and supports the transformation into domestic and clean energy at a high level of efficiency. The project serves through four main components: "support to supply chains and energy facilities", "legislation regulations", "capacity building and awareness raising" and "monitoring and evaluation" in Türkiye.

**Keywords:** Biomass, Sustainability, Green growth, Bioenergy, Project, Türkiye.