



“ Manisa Biomass and  
Uzunburun Biogas Power Plants ”

GREENHOUSE GAS REDUCTION  
**CARBON CERTIFICATION  
PROCESS**

**LOCAL STAKEHOLDERS' MEETING**

17.06.2022

Double Tree By Hilton Spil A Meeting Room  
MANİSA/TÜRKİYE

# The importance of renewable energy production.

**For sustainable development in energy, in many countries of the world, great importance is given to renewable energy & energy efficiency and the transition to a low-carbon energy system is supported.**

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Renewable energy and energy efficiency gain more and more importance every day in order to minimize the effects of climate change as soon as possible.

In order to provide a more flexible additional structure of the energy system, diversification of resources, increasing domestic, national and renewable energy production capacities, and providing cheap, sustainable energy are among the priority issues of our country.



## Our Obligations towards the Environment



In order to prevent the damage of waste and residues to the environment, to evaluate them in the most appropriate way, to ensure their disposal and to produce energy with these activities.

To fulfill the requirements of the applicable environmental legislation and standard in all our works and to fulfill our responsibilities to the organizations we are affiliated with.

To keep the consumption of natural resources at the lowest level in our activities and to ensure waste minimization .

To measure and monitor continuously the values that have environmental impacts during our activities.

Kartallar Ege Geri Dönüşüm Enerji Üretim A.Ş. focuses on waste management activities within the

borders of Manisa Province, and is a firm that focus more on the conversion of energy and the recycling of waste through its Biogas and Biomass Energy Plants.

In this way, our organization aims to combat the global climate crisis, increase renewable energy production, contribute to the reduction of fossil fuels and non-renewable energy sources in energy consumption, produce renewable energy by evaluating urban wastes and reduce the environmental impacts in the region.



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### Who Can Attend the Meeting?

In this context, at the **Local Stakeholder Information Meeting** our aim is to give the below participant groups a brief information about the project and ensure their participation.

- Local Land users
- Local regional government institutions (Municipality, Governorship)
- Local Libraries
- Housewives, students, shopkeepers living in Manisa,
- Local Communities
- Industry-based stakeholder (expert chief of the region's

investment department) committee chairman)

- Women's Committes

Since your valuable comments about the project are important, we would be glad if you would attend this meeting.

The place and the details of the meeting where the acknowledgement about the project will be presented to you, is as follows:

**Date** : 17.06.2022

**Time** : 15:30-17:30

**Place** : Double Tree By Hilton Manisa/Türkiye



## Plant

### Capacity



The capacity of the mechanical biological separation plant is 607 thousand 200 tons per year. In our mechanical separation plant, 66,792 tons of recyclable waste is recovered annually as raw material.

The project, located within the boundaries of "Kartallar Ege Waste Recycling Facility" in Yunusemre District of Manisa Province, has a capacity of 18,660 MWm / 18,054 MWe and Uzunburun Biogas Power Plant with a capacity of 6,821 MWm / 6,630 MWe, in total; It has an installed capacity of 25,481 MWm / 24.684 Mwe. Within the scope of the feasibility of the project, base scenario, the amount of electrical energy expected to be produced with a capacity of 7500 hours/year is calculated as 185,130 MWh. In the following stages, it is foreseen that in line with the 75MWe EIA permit, an additional stage biomass power plant based on the burning of wastes in potential industrial waste landfills and solar energy under hybrid license can



be invested.

It is envisaged that the plant will be able to invest in solar energy under a hybrid license.

Urban and industrial wastes collected for disposal and recycling within the borders of Manisa Province are sorted at the facility and reintroduced to the economy.

The wastes provided to the recycling facility are sorted into main groups as metal, plastic, organic waste and RDF waste. While metal alloy and plastic wastes are sold to the market and recycled, other wastes are used to obtain electrical energy in power generation enterprises established in the integrated facility.

Energy production in the integrated plant; is carried out by burning domestic wastes and biomass energy production is processed by heat obtained as a result of this combustion process. On the other hand biogas energy production is processed by burning landfill gas obtained from waste storage sites.

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### Advantages of the Project

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Among energy investment projects it is known that the return period of renewable energy investments are long. Waste-to-energy production plants are a correct technological system in line with the advantages of the company in terms of both capacity factor and fuel supply and such investment puts itself in the foreground compared to the other energy investments.

With the realization of this

investment, it will bring benefits and priority to our city -Manisa on an economic scale as well as the financial benefits. It is obvious that it provides many benefits such as the prevention of environmental pollution, which is an environmental factor, the disposal of municipal wastes and industrial wastes and its positive effect on employment. This project is an exemplary and pioneering project in the country.

### Carbon Footprint Calculation



It is a study that includes the numerical calculation of the damage caused to the environment by carbon dioxide and other greenhouse gas emissions, which are the main cause of global warming due to activities in the enterprises, in terms of CO2 equivalent, and reporting them according to ISO-14064.

### What is a Carbon Certificate?

CO2 certificates represent the amount of emissions that are offset. A certificate corresponds to one ton of greenhouse gases. For power production with renewable energies, the amount calculated is the amount of greenhouse gas emissions that the climate protection project reduces or avoids.

### What Are Carbon Credits?

These are emission reduction units used to communicate each ton of CO2 equivalent greenhouse gas reduction made by an activity that reduces greenhouse gas emissions. These credits are called Verified Emission Reductions (VER).



## Certification of Carbon Credits



Currently, Kartallar Ege Geri Dönüşüm Enerji Üretim A.Ş. has decided to carry out Waste Separation, Disposal and Energy Production Activities in accordance with the principles of environmental protection and sustainable development.

Public and private sector organizations that reduce greenhouse gas emissions or reduce existing greenhouse gases can obtain an emission permit and obtain a Certificate for "Carbon Reduction Projects" even if they are not subject to the Kyoto Protocol.

This is why we, as Kartallar Ege, for Biomass Power Plant have applied to

Verified Carbon Standard (VCS) and for Biogas Renewable Power Plant have applied

The Global Carbon Council (GCC) for the Gold Standard Certification process for the Validation & Verification processes for our Power Plants to certify that both of our projects are operated in accordance with the principles of environmental protection and sustainable

development standards.

Moreover, our company supports the ten principles of the UN Global Compact on human rights, labor standards, environment and anti-corruption, accountability and transparency. We have stated our intention to develop these principles in our own sphere of influence, in writing, to the UN Global Compact, and to make these principles a part of our company's strategies, culture and daily activities, and to ensure that Sustainable Development Goals, of the United Nations, are implemented. We have committed to take part in cooperation projects that support the development of these goals. With this opportunity, Kartallar Ege Recycling Energy Generation Inc. clearly declares this commitment to its stakeholders and the public.

Our Company will also publish the Progress Report every year, explaining how we have put the ten principles into practice, which is the most important requirement of being a UN Global Compact signatory.

## + contact us

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**The Hope of a Better World With  
Renewable Energy.**