



Decarbonization Project: Rentar Device (Fuel Savings and Emission Reduction)

Port operations are completely performed on various port equipment. The fuel type of these machines is diesel, electricity or diesel + electricity hybrid. Electric versions of all diesel-powered machines have not been developed in the world. For this, we have researched methods that will save fuel and reduce carbon emissions. Rentar is a device that optimizes fuel consumption and enables vehicle engines to work more efficiently, helping to achieve fuel savings. An average of 800 thousand liters/year of fuel are used in the port. Fuel savings are achieved by installing the Rentar (fuel saving and emission reduction) device on port diesel equipment.

Project Results:

- Optimizing fuel consumption and ensuring that vehicle engines operate more efficiently
- Achieving fuel savings

Basic Gains:

At Borusan Port, out of 35 machines in the machine fleet, Rentar fuel saving and emission reduction devices were installed on 25 machines (Stackers and Heavy-Duty Tractors) in 2022 and on 5 machines in 2023. Thanks to this, fuel consumption for the relevant equipment was reduced by 3-5%, while the carbon emission reduction was determined to be approximately 10-15%.

SKA: 13



We are converting our terminal equipment from diesel to electricity, and in order to reduce energy consumption, we are including environmentally friendly machines that consume less energy in our operations instead of old technology machines. In this area, we have put into service the projects of mobile cranes and RTGs to electricity, and the projects of switching to LED lighting in the field and warehouses, and as a result, we have enabled a high level of energy saving and carbon emission reduction. We are aiming to shape our port in this context, foreseeing that the number of electric machines will increase in the future.

