

University : Yeditepe University
Country : Turkey
Web Address : www.yeditepe.edu.tr

[2] Energy and Climate Change (EC)

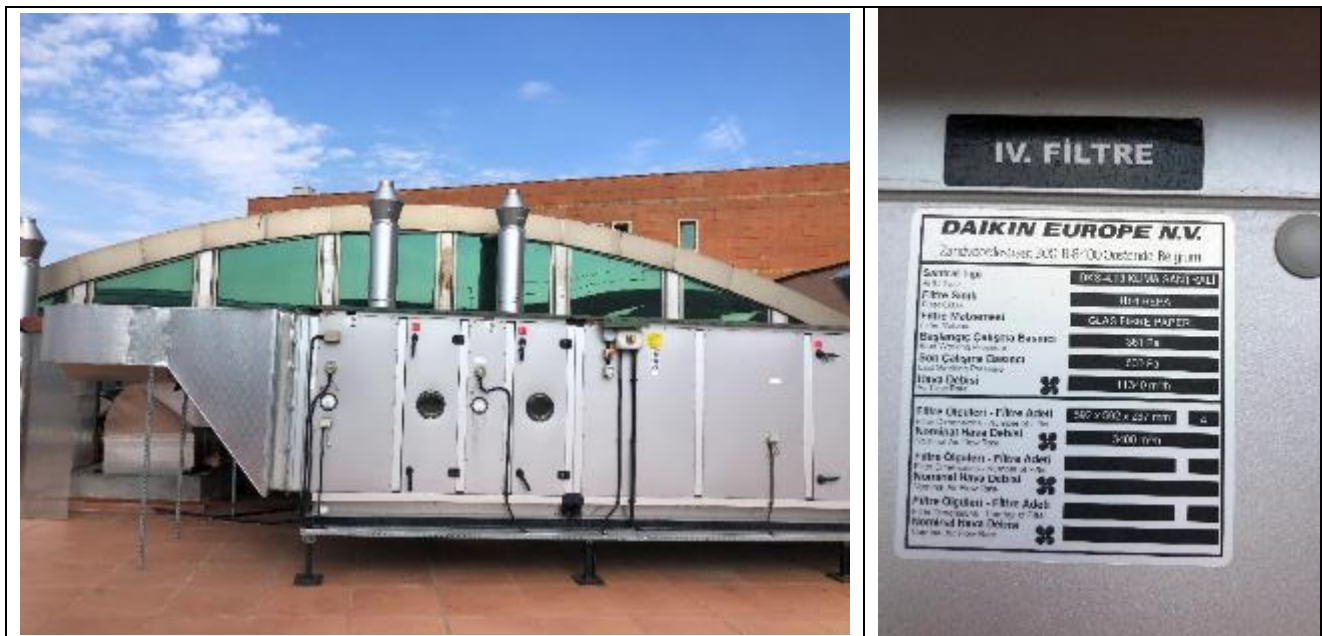
[2.13] Number of innovative program(s) in energy and climate change



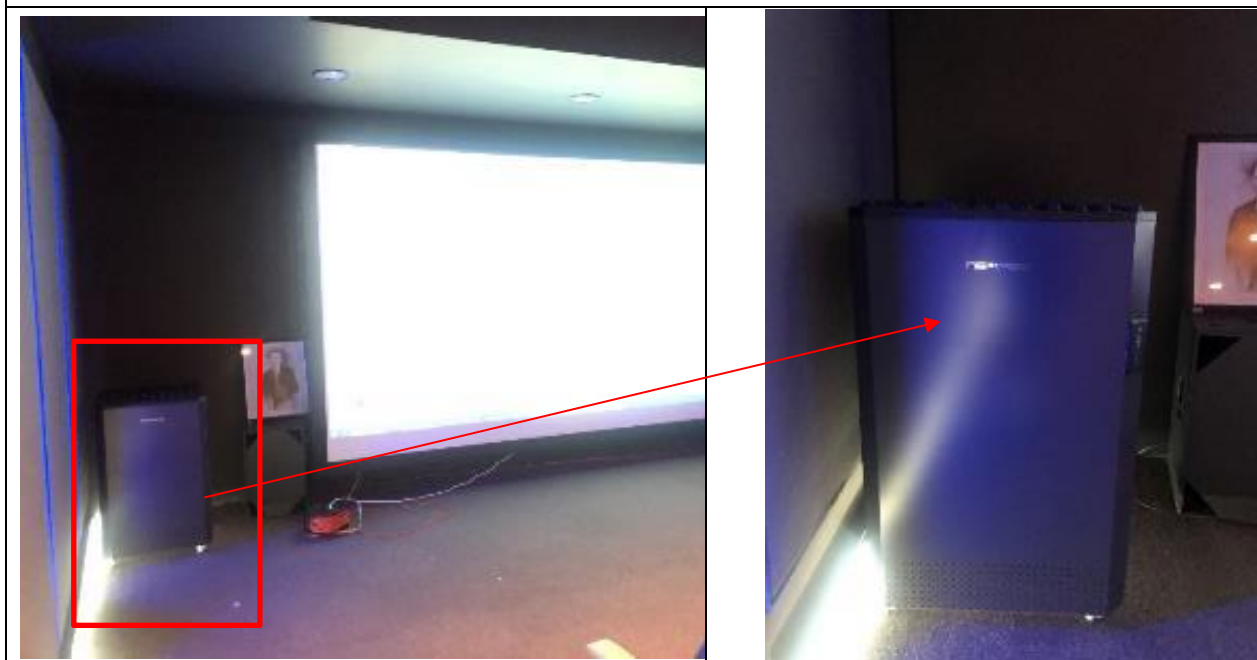
1.Solar Panels (Yeditepe University, Turkey)



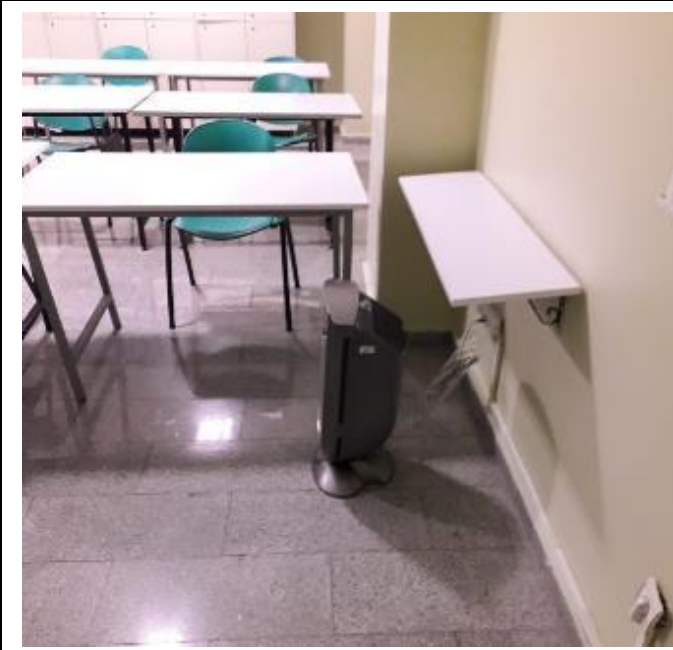
2.Smart Indoor Health and Comfort System (Yeditepe University, Turkey)



3.High Efficiency Particulate Air (HEPA) Filters (Yeditepe University, Turkey)



4.Air Purifier



4.Ionic Air Purifier



5. Solar Water Heating System (Yeditepe University, Turkey)



6. Grease Separator Tank (Yeditepe University, Turkey)

Description:

1. Solar Panels: There are solar panels for electricity production on the roofs of the buildings within the campus area.

2. Smart Indoor Health and Comfort System: Smart energy-efficient cooling devices are used in all campus buildings. Also, the sensors control their heating systems.

3. High-Efficiency Particulate Air Filters: Hepa-filtered ventilation devices are used in laboratories of the Faculty of Engineering and the Faculty of Medicine.

4. Air Purifier and Ionic Air Purifier: With its fan of 80W power, five different filters, and UV lamp technology, it helps to clean 99.97% of the air in a 70 m² closed room automatically or manually with the help of its dust and odor sensor. Within the scope of COVID-19 measures, ionic air cleaner devices were purchased to clean the air in the classroom environment.

5. Solar Water Heating System: A solar system for heating hot water is present on the roof of the Social Facilities Building. There are 385 solar water heaters. The hot water capacity of one of these heaters is 125 liters. In total, 48125 liters of water is supplied by these heaters.

6. Grease Separator Tank: There is a three-compartment grease separator tank in the food production unit at the Campus Social Facilities Building, where all the university's food is prepared. Wastewater composed of oil and water collected from the utility system is taken to the grease separator tank, where the mixture is trapped and allowed for some time to separate. Then the oil separated from this process is stored and sent to a company that produces biodiesel fuel. Also, the cleaned water is transferred to the sewage system.

Additional evidence link :

- <https://sustainable.yeditepe.edu.tr/>
- <https://sustainable.yeditepe.edu.tr/energy-and-climate-change>