

## Template for Evidence(s) UI GreenMetric Questionnaire

University : Gebze Technical University  
Country : Türkiye  
Web Address : www.gtu.edu.tr

### 2] Energy and Climate Change (EC)

#### [2.9] Elements of Green Building Implementation as Reflected in All Construction and Renovation Policies

1



Green roof building



Green roof construction



Middle garden with or without a glass roof

4

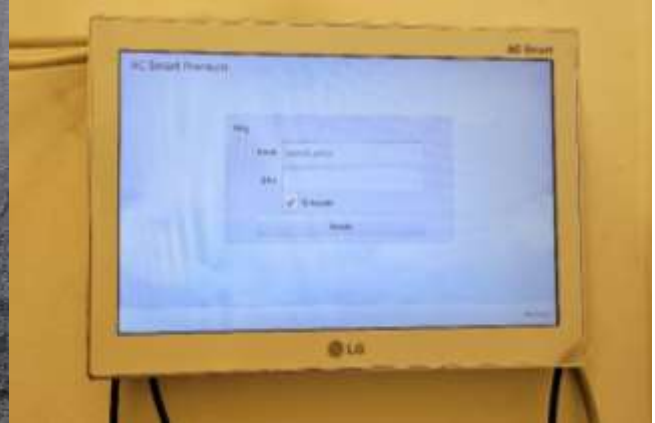


Natural ventilation

5



Glass floors providing natural light to basements



Thermal comfort, Air quality monitoring systems



Energy Policy of GTU

<https://www.gtu.edu.tr/kategori/3452/0/display.aspx>

**Elements of green building implementation as reflected in all construction and renovation policies  
(Gebze Technical University, Türkiye)**

**Description:**

Gebze Technical University is committed to green building in line with its sustainable campus goals. It is taking a number of steps towards this goal.

- 1) Picture number one shows a small building used as a control center on the campus. This building has a green roof, as you can see in the picture.
- 2) Photo 2 shows a new building at GTU. The new lecture theater building is also planned to have a green roof and is being built in this way. The building is expected to be completed this year and to be operational by the time students are admitted. As can be seen from this building plan, the GTU is constructing new buildings according to a sustainable plan.

- 3) Figure 3 shows an example of how the university's new buildings have a central courtyard, with or without a glass roof. These open spaces in the center of these buildings receive more sunlight and reduce the amount of electricity used to light the halls.
- 4) Most of the faculty buildings at GTU have a central courtyard. An example of such a building is shown in Figure 4. These courtyards allow sunlight to enter from all sides of the building and also provide a cross-flow of air. Winds from the north and south provide natural ventilation. In this way, a natural airflow is created within the buildings.
- 5) Some faculty buildings at GTU have glass floors that allow natural light into the basements. An example of this is shown in Figure 5. The main benefit of glass floors providing natural light to basements is the efficient use of sunlight. In this way, natural lighting is created on the basement floors, and electricity consumption is reduced.
- 6) Some buildings at GTU have thermal comfort and air quality monitoring systems. An example of a building with this system is shown in Photo 6. This system helps to monitor the air quality in the building. In this way, it is possible to intervene early in any unfavorable situation in the air quality of the building.
- 7) Gebze Technical University has prioritized energy policy as a key component of its sustainable campus goals. In this context, it has applied to the ISO 50001 program and provides training to its academic and administrative staff in this context, as can be seen in the link in the image number 7. GTU's energy policy can be summarized as follows:
- To ensure that energy-efficient products and energy-friendly technologies are preferred in all processes in order to provide a sustainable environment. This is achieved by reducing or completely eliminating wasted energy consumption during activities.
  - To ensure the participation of all employees and stakeholders in efforts to improve energy management system applications. In addition to providing training and information to internal and external stakeholders in order to ensure that they adopt energy principles,
  - To create awareness about the energy management system and to create an energy culture,
  - To comply with the legal obligations regarding energy related to the university, to fulfill the obligations imposed by national and international standards, and to fulfill the applicable requirements,
  - To be an organization that continuously improves and develops its energy performance,
- thus forming the basis of our energy policy.