

Appendix no. 2
Submission form
Student and PhD Student Participatory Budget
Edition 2024 – “Ecological innovations”

Project title: Digital information totem powered by photovoltaics at the entrance to the SGH building G

Applicant(s): Kacper Jabłoński

Why is the project important? (no more than 100 words)

Setting up such an installation at the school building entrance will bring numerous benefits to the academic community. Easier access to information on university news and events will strengthen community participation in academic life, promoting a sense of belonging and involvement. The project is perfectly in line with the idea of eco-innovation, using a renewable energy source for the purposes of branding and promoting the SGH. It is also an investment towards improved infrastructure, aimed at convenience and easy access to key information for students and doctoral students. Thanks to the new system, it would be easier for them to navigate around the school's numerous initiatives. Implementation of the project will contribute to improving the standards of internal communication as well as the school's communication with the district's local community.

Project description (no more than 250 words)

Setting up a photovoltaic-powered LED information totem at the entrance to the school building requires careful planning and several key activities need to be carried out beforehand. First, it would be helpful to find interested partners who have the resources to make a design, conduct analyses and provide technology for the innovative investment. It is necessary to select an appropriate technology, taking into account the required parameters of the LED screen and the photovoltaic installation. Afterwards, site analysis is necessary to select a location with appropriate sun exposure in order to ensure that the system can be effectively powered. The totem should be powered both from the PV system and from the grid whenever solar power is not available. Relevant approvals and permits must be obtained from the school authorities and local institutions before the project is implemented. The next stage is installation, including the installation of the totem structure, photovoltaic panels and a digital totem itself. What follows is the integration of the photovoltaic power system with the totem and programming the software to display the school's news and event information. Before putting the totem into service, the concept and layout of the presented content should be determined and a person or team responsible for content creation has to be appointed. The final step is bringing the installation into use and its regular maintenance and servicing.

Careful planning and performance of these activities will ensure effective and efficient implementation of the project, which will contribute to improving communication among the academic community with respect to events organized at the school and promote ecological innovations. The project will also increase the role of the SGH in empowering the local community. The project implementation strategy can be selected based on the practical aspect or the innovation aspect, creating a new innovative, technologically integrated product on the market.

Simplified cost estimate

Preparation of conceptual design and consultation with specialists – ~PLN 8 000

Outdoor digital totem/kiosk – for example: size 55", no touchscreen functionality – ~PLN 15 000

Photovoltaic installation of 1 kW – ~PLN 5 000

Installation and software – ~PLN 5 000

Operating and maintenance costs – ~PLN 500 per year