

Collaboration between Susvill FT 2024 X Camy.id: Making Solar Panel-Based Street Lights as a Solution to Lighting & Electricity Problems

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HumasUPNVJ - Cijantur Village, Bogor Regency is once again part of the *Sustainable Village 2024* program initiated by the Student Executive Board of the Jakarta Veteran National Development University (BEM UPNVJ). This year, the BEM of the Faculty of Engineering (FT) prioritizes the development of renewable energy by installing five Solar Power Plants (PLTS) in strategic locations. This initiative aims to address lighting issues and utilize environmentally friendly energy that is more efficient in terms of cost.

Deputy Head of the FT Development Division, Raffi Indra Jati, explained that the selection of solar panels as the main energy source was based on the electricity conditions in Kampung Cijantur which are often unstable. *"With solar panels, we don't need cables or electricity from PLN. The lights automatically turn on at night without relying on conventional energy,"* said Raffi. Until now, 18 PLTS points have been successfully installed, including five new locations this year which include the main road, TPA (Children's Study Place), the path to the school, the cemetery area, and the yard of the Islamic boarding school.

The selection of Cijantur Village as the program location is based on the sustainability commitment that has been running for the past few years. The focus of development is directed at one village so that the results are more real and measurable. *"Through discussions with residents, we determine the locations that are considered most beneficial for the installation of PLTS. Thus, the impact can be directly felt by the community,"* added Raffi. The installation of PLTS took place faster than in previous years thanks to the team's experience. If the initial trial process took longer, the installation of subsequent panels could be done in just a few minutes. In addition to installation, local residents were also given training to operate and maintain solar panels. *"We provide them with guidebooks and training. Residents are taught everything from how to turn it on, turn it off, to setting the timer so that they are able to manage this*

system independently," explained Raffi. This program also received support from **Camy.id** , a digital technology-based learning platform, which shows cross-sector collaboration to create a positive impact on the community.

In its implementation, *Sustainable Village 2024* not only focuses on infrastructure development, but also strengthens the relationship between students and residents. *"We hope that the installed PLTS can improve the quality of life of the community and be the first step towards greater sustainability. In the future, we want to continue to foster friendship with residents and create new innovations that can answer their challenges,"* concluded Raffi.

One of the problems still faced by Kampung Cijantur is waste management. Therefore, in the upcoming program, BEM FT plans to present an innovation in the form of an environmentally friendly smokeless waste incinerator. *"Trash here is usually just collected and then burned because there is no Final Disposal Site (TPA),"* said Mang Ukar, a local community figure. BEM FT also continues to be committed to presenting innovative and beneficial technology for the community.

Through the *Sustainable Village 2024* program , BEM FT UPNVJ shows that the use of renewable energy can bring about major changes for society. Cijantur Village is now an example of an environmentally friendly village that can be an inspiration for other areas.

Source: BEM UPNVJ

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