

UPNVJ FT Lecturer Participates in the Friends of the Earth Competition for the EBT Innovation Project (PFSains) from the Pertamina Foundation

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HumasUPNVJ- Research for lecturers is one of the obligations that must be carried out by lecturers in implementing the Tri Dharma of higher education. Through research, many results and impacts can be utilized to develop science, technology and art, including developing the world of education. For this reason, the Pertamina Foundation opened an EBT Innovation Project (PFSains) Sobat Earth Competition. From one of the top 25 PFSains teams with the title "Ocean Thermal Energy Conversion (OTEC) for Remote Islands" led by Prof. Dr. Eng Jaswar Koto, CEng., CMarEng is making a *prototype* for application in Eastern Indonesia. Prof. Jaswar Koto with his team, including:

Dodi Sofyan Arief, ST., MT,

Muhtil Badri, ST., MT,

M. Dalil, ST., MT

Junaidi Abdul Khoir, ST., MT

Noverdo Saputra, ST, M.Eng

Taken from the abstract and research background, *Ocean Thermal Energy Conversion* (OTEC) is one of the renewable energies that utilizes differences in surface and underwater temperatures at certain depths. Indonesia, which is a maritime-tropical country, has great potential for the development of OTEC renewable energy. In this research, the OTEC renewable energy concept was designed based on surveys and studies that have been conducted previously in several places in Indonesia. This research will produce a prototype OTEC renewable energy generation system with a capacity of 100 kW. This prototype is used for testing and developing OTEC technology research. This environmentally friendly technology is expected to provide electricity for people in the outermost islands of Indonesia.

This OTEC will really help meet the needs of electrical energy in Indonesia, especially for remote and farthest areas, namely on the outermost islands west of Sumatra such as Nias, Mentawai, on the islands of North Kalimantan, South Sulawesi, Maluku and Irian Jaya which are not reached by PLN's current electricity grid and the limitations of wind, wave, fossil, and geothermal energy sources.

The UPNVJ Public Relations Team had the opportunity to conduct an *online* interview with Noverdo Saputra, ST, M.Eng, a team member as a lecturer at the UPNVJ Faculty of Engineering. In his interview, Noverdo explained that this research had been studied since 2015, participants would compete towards the top 10 at several other campuses. Apart from that, Noverdo also explained that his team consisted of UNRI, STT Palawan, UMRI, UNAND "For the next stage, interviews will be held by a team of judges from the Pertamina Foundation from 12 to 16 October 2020". Obviously

Benefits of OTEC on 3T Island:

https://drive.google.com/file/d/1jXtcjqRNTYhpGcc2fLsMJ_o4b9JjOs9w/view
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