

The Evidence(s) UI GreenMetric Questionnaire

University : Universitas Sebelas Maret
Country : Indonesia
Web Address : <https://uns.ac.id/> web greencampus UNS <http://greencampus.uns.ac.id/>

[2] Energy and Climate Change (EC)

[2.3] Renewable energy produce inside campus

Solar Panel (Universitas Sebelas Maret, Indonesia)



Figure 01. Solar Panel has been applied for Drinking Water Treatment System (SPAM : Sistem Pengolahan Air Minum)



Figure 02. Solar System has also been used for Street Lighting in front of Library Building.



Figure 03. Outdoor Lighting in UNS Hospital is also utilizing Solar Panel .



Figure 04. Solar panel is also applied for outdoor lighting in LPPM UNS Building .



Figure 05. Solar panel is used in Faculty of Engineering UNS.

Biofuel in Engineering Faculty UNS



Figure 06. Laboratory of Biofuel has been developed in Engineering Faculty as a part of the Three Roles of University as Education, Research and Community Development in terms of Development of Energy Alternative.

BikeUNS



Figure 07. UNS initiated by Engineering Faculty has developed innovation in the use of energy alternative for transportation through electric bicycle called e-bike UNS.

Electric Car

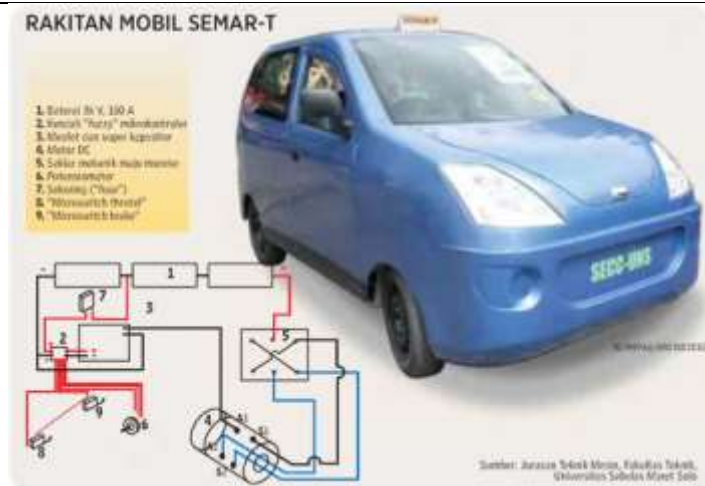


Figure 08. Innovation in the use of new Energy and renewable energy is also implemented in National Electric car Program called MOLINA (Mobil Listrik Nasional).

Piezoelectric



Figure 09. Energy alternatif has also been developed in Engineering Faculty through research and innovation of Lithium Baterei for Green Transportation.

Natural Coloring DSSC



Figure 10. UNS has also developed Ecody, Natural colouring for Textile as a commitment of UNS for optimizing natural resources.

Description:

As a commitment of UNS in development of Energy alternative and renewable energy, some efforts have been done such as : the use of solar panel for outdoor lighting, energy for Drinking Water Treatment Instalation System; development of e –bike for internal transporttion moda. Apart of that, UNS has also developed National Electric Car supported by the Ministry of Research and Higher Education. To support development of electric transportation mode, UNS through Faculty of Engineering has innovation in development of Lithium Batery . Recently this activity has been innitiated for cooperation with industry for production and marketing. In terms of textile industry, UNS through Industrial Engineering has developed natural batik colouring , which is environmentally friendly using natural plantation.