

Slovenia Wetland solar System





Overview

Can wetlands be used for photovoltaic power plants?

The techno-economic feasibility of incorporating up to 20 % wetlands for the installation of photovoltaic power plants is presented in this study. Two sites with major wetland coverage were analyzed. The following are the conclusions drawn from the study:.

What is LCOE for solar PV power plant installation with wetland?

LCOE for solar PV power plant installation with wetland is the second cheapest non-utility option just after offshore wind energy production.

Can a wetland Solar System be economically viable?

The designs that utilize the wetland up to 20 %, have low installation costs of \$ 2.3 million, high energy generation of more than 2 GWh/yr, and have LCOE of \$87/MWh which is lesser than LAZARD's LCOE for solar PV Community systems based on dryland. Thus developing economically viable PV systems within the existing WCA framework is possible.

Do wetland solar systems generate more energy?

Therefore, a higher annual power generation was observed from design simulations. The designs that utilize the wetland up to 20 %, have low installation costs of \$ 2.3 million, high energy generation of more than 2 GWh/yr, and have LCOE of \$87/MWh which is lesser than LAZARD's LCOE for solar PV Community systems based on dryland.



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