

Proposal of repowering of a Large Photovoltaic Plant with feed-in premium locate in Sicily

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Scope of work is to show how corrective maintenance of exiting photovoltaic plant can improve the production of renewable energy and contribute to reduce CO2 emission with a benefit on pay-back time of investment.

A summary of common activities oriented to improve the production of energy and the analysis of the applicative rule and procedure guideline of Italian Energy Service Authority GSE (Gestore dei Servizi Elettrici) will introduce a practical example with improving of energy production and revenue generation.

The aim of the study is to show the state of art, and to describe the technical activities required under the perspective to maintain the feed-in premium paid by GSE.

The presented case study of Revamping of a large-scale PV Plant located in Sicily helps to understand the benefit of the activities with regard the increasing produced power and the economical analysis shows that the payback period is sustainable.