

ADEME



Agence de l'Environnement
et de la Maîtrise de l'Énergie

Club ADEME
International

eLum
ORCHESTRATE ENERGY & DATA

ELUM ENERGY

Wonderfontein Wine Farm



 South Africa



Intervention time
1 day



Total cost
100 000 \$



Engaged workforce
5-0

Thematic



Prestations provided

Livraison d'équipement /
Mise en service

Goals

The goal of this project was to reduce the consumption of fuel and allow self-consumption through PV energy for an industrial building.

Foreign partners

Clearsky PV



Main stages

The main stages of this project are as follows :

- Studies of existing generators
- Design of the roof installation
- Sizing
- System installation
- Deployment of the monitoring and control solution

Customers

Through this project, the Wine farm cut down the use of diesel gensets during load shedding episodes in South Africa by using green energy.

Post-project results

This first project with Clearsky PV was a success and allowed ElumEnergy and Clearsky PV to collaborate on new projects. This is one the first reference for Elum Energy in South Africa. The completion of this project coincides with the opening of our office in South Africa.

Environnemental impact

With 40 to 45% more PV penetration in the middle of the day, the PV/diesel ratio has since then drastically decreased.

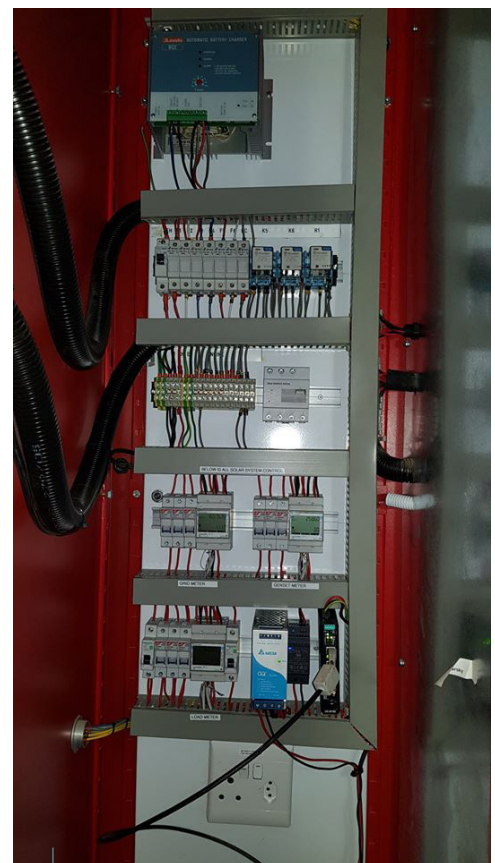


They said it ...

Solar Power during load shedding but no batteries? No problem.

ClearskyPV just completed the installation of an EMS plant controller for one of our long standing clients. This allows him to run his 130kWp solar plant during load shedding in conjunction with his onsite generator. The result... a saving of almost 45 litres of Diesel an hour during load shedding because the generator is carrying a significantly reduced load, and far less strain on his generator.

Source Clearsky PV facebook page




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With more than 130 members, the Club ADEME International assists the SMEs in its network in the development of innovative projects and international partnerships. The objective is to participate in the dissemination of French knowledge, by supporting the private and public sector in the ecological and energy transition sector in order to meet global environmental and climate challenges.

More information : www.clubinternational.ademe.fr



Club ADEME International | Exemplary project file - June 2020

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