



Roseview Primary / Primêr

Principal / Prinsipaal: Mr. W.C. Cicilie

☎ 051 448 0317
☎ 051 448 1932
✉ roseview@mweb.co.za

✉ PO Box 11744, UNIVERSITAS
9321

Victoriaroad / Victoriaweg
WILLOWS
Bloemfontein 9301

TO WHOM IT MAY CONCERN

I, Mr. W Cicilie declare that Jager Technologies (Pty) Ltd, installed a 30 kW grid-tie solar generation system on the Roseview Primary School Premises in Victoria Avenue, Willows, Bloemfontein, and that the grid-tie system works as expected. The installation was done in a safe, neat and professional manner. A Certificate of Compliance was issued by Jager Technologies, regarding the installation.

Discussion:

A load profile of a site captures the electricity usage over time. A meter was installed by Jager Technologies to capture the load profile of the Roseview Primary School, before sizing the solar installation. This load profile is depicted in Figure 1.

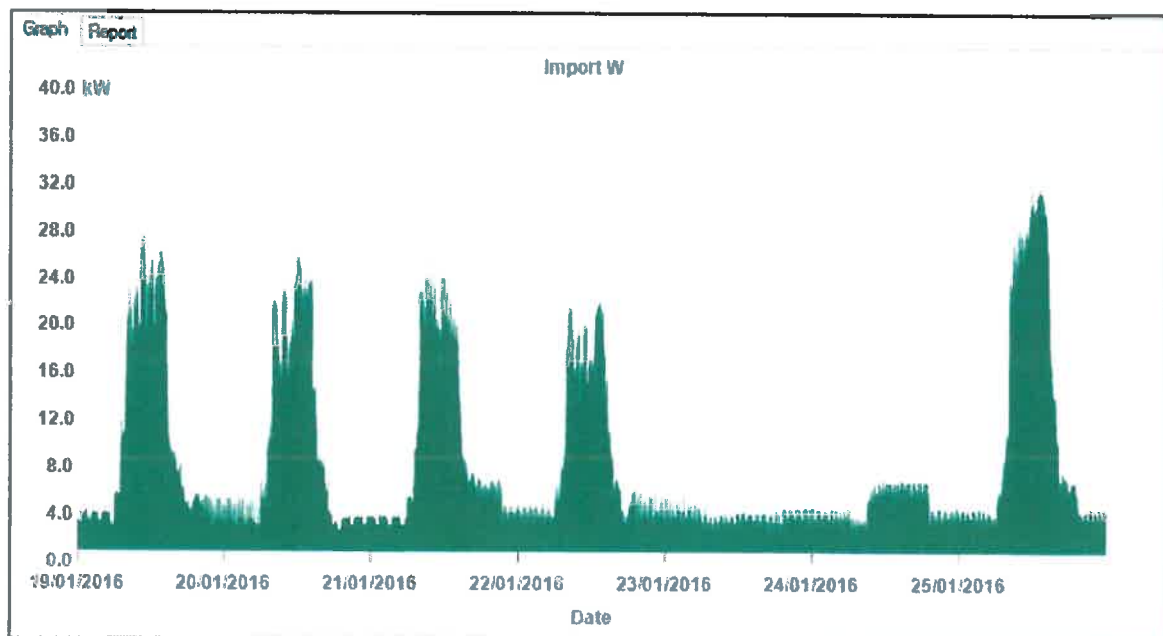


Figure 1: Load Profile of School before Installation of Solar System

As can be seen in Figure 1, the power usage is between 25 kW and 32 kW when the school is operational; therefore it was decided upon a 30 kW system. Please note that the power peaks are during daytime, making this an ideal solar power application.

After installation of a 30 kW peak power solar system, a load profile of the solar system is kept on an ongoing basis by Jager Technologies. As can be seen in Figure 2, on cloudy days like the 21st of April, power from the utility (Centlec) is still used, but on clear days the load profile falls away completely during daytime, like on the 23rd and 24th of April. The load profiles are kept on an online system, and can be viewed by Centlec clients.

SGB: Mr. W.C. Cicilie (Principal), Mr. T. Kagande (Chairperson), Me. R. Landers (Treasurer), Mr. F. Mimi (Parent), Me. M. Setouto (Parent), Mr. M. Mpeqeka (Parent), Mr. D. Sekakanyo (Parent), Mr. T. Adolph (Teacher), Me. L. Kotze (Teacher), Me. D. Barnard (Teacher), Me. C. Bokster (Non-teaching)

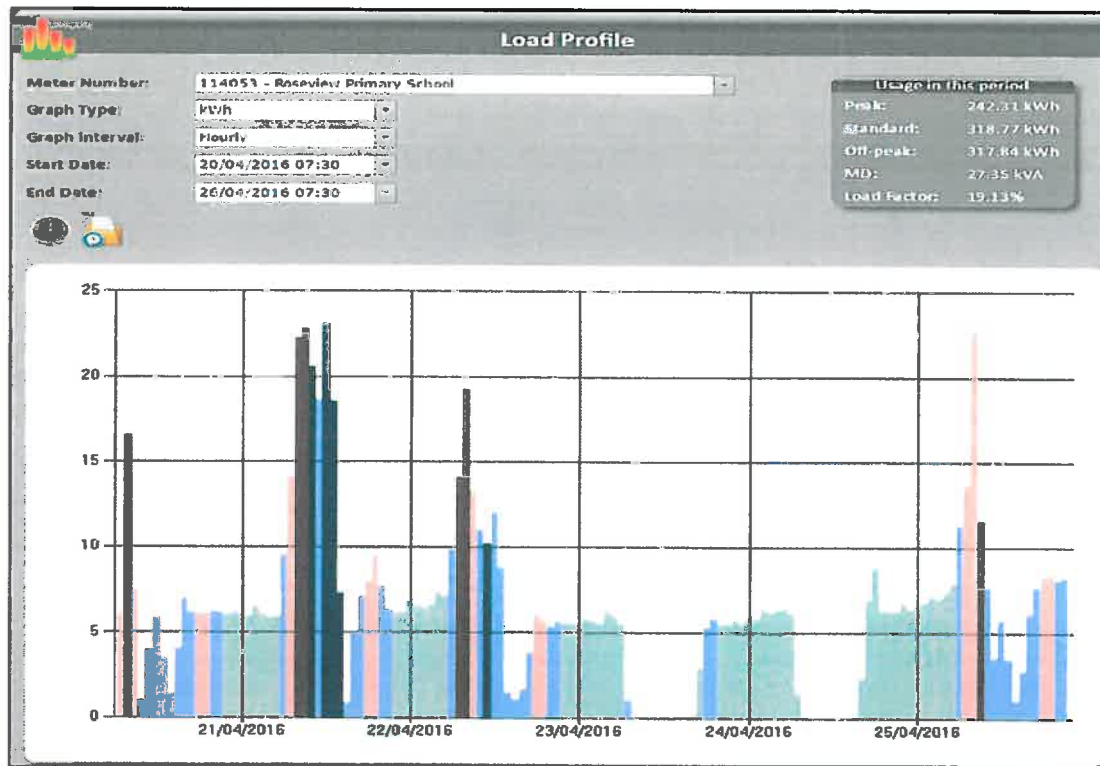


Figure 2: Load Profile after Installation of Solar System

Figure 3 depicts the generation of energy, captured by the inverter of the system, which can be correlated back to Figure 2.

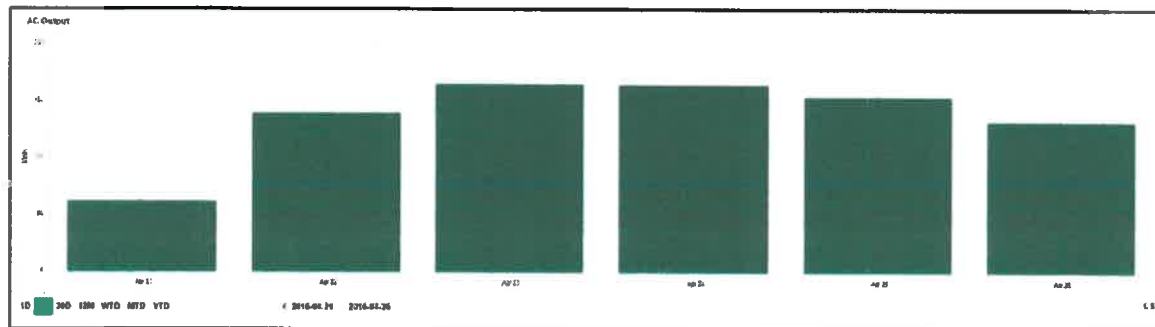


Figure 3: Weekly Generation Pattern over the Same Period

In monetary terms, for the month of April 2016, the account of Roseview Primary School will be R 4 882, as oppose to an amount of around R 22 000 that was bought (prepaid electricity), resulting in a saving of around R17 000, that can be used for paying towards the solar system.

If any questions arise from this discussion, you are welcome to contact me.

Regards,

Wayne Cicilie (Headmaster)



Roseview Primary School
 Victoria Road, Willows
 B. Benfontein, 9301
 P.O. Box 11714, Universitas, 9321
 Tel: (051) 448 0317
 Fax: (051) 448 1932
 www.roseview.co.za