

Background

Roman's Pizza is loved by families across South Africa and well established as the country's most popular takeaway pizza brand. With their delicious range of pizzas, pastas, salads, starters and more, Roman's is testimony to the love that South Africans have for convenient Italian food.

In 2018, the company embarked on a journey towards sustainability at their head office and distribution facility in Centurion, Gauteng. This property is a high consumer of electricity with temperature control being an essential component of managing the quality of the ingredients that are shipped nationwide.

Objective

Roman's Pizza approached New Southern Energy looking for a solution to address their energy objectives. These objectives included reducing their municipal electricity bill by using solar energy, as well as becoming less vulnerable to unpredictable load-shedding.

The site fortunately had sufficient roof space available to host a solar plant that could meet these requirements. This system would supplement the facility's energy needs with solar power and help reduce their dependence on electricity..



Results

The site was completed late in 2018 and has been operating efficiently ever since.

The system currently generates 25-30% of the site's energy supply.

In its first year, the client saved an estimated R195 000. The total net savings for the 20 years of service is projected to be R6 350 000.

Solar solution

New Southern Energy designed a grid-tied solar system for Roman's Pizza. [Grid tied](#) systems are connected to the electrical power grid, providing a win-win solution whereby the facility can generate solar power to supplement its energy needs, and still draw from the national grid.

The 136,62 kWp PV system consists of 414 Canadian Solar panels which convert sun radiation into electrical energy. Five inverters are included in the system. Aluminum frames were used to attach the solar panels to the roof, without any penetration into the roof sheeting so as to mitigate a concern regarding water-proofing areas. The frames are designed to withstand local wind conditions for this site.



Team

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