

# Solar savings of \$4M for aromatic industry producer



With large production facilities and a strong commitment to sustainability, this US chemical producer for the flavor and fragrance industry has fully embraced solar – and now generates 72% of its own energy requirements thanks to its partnership with Centrica Business Solutions.



“

The benefits of switching to solar energy are not only substantial for our business, but also for our environment.”

Chairman and Chief Executive Officer

133%  
REDUCTION

In energy costs  
over 25 years

\$149k  
SAVINGS

Every year

\$4.1M  
SAVED

Over 25 years

1,142  
TONS

CO<sub>2</sub> saved annually

### Protecting future generations

This family-owned business manufactures essential oils and aromatic chemicals for the flavor, fragrance and pharmaceutical industries. Its 3,000 organic and sustainably-produced products are exported around the world.

The Chairman and Chief Executive Officer says that finding new ways to promote sustainability will be a key component in the continued success of the business: "Sustainability is an important part of our business and it's important for us to play an active role in protecting our environment for generations to come."

### Experience, expertise and added value

Centrica Business Solutions was awarded this solar contract after demonstrating a combination of experience, expertise, and added value. Centrica Business Solutions was able to directly purchase the Solar Renewable Energy Certificates (SRECs) and provided industry-leading production guarantees and workmanship warranties, both of which essentially guaranteed economic return.

The Centrica Business Solutions team designed and installed a solution featuring more than 4,000 Jinko 315 watt solar panels and 49 SolarEdge inverters on the roof of the company's New Jersey headquarters and production facility.

### The results

The solar panels convert sunlight into electricity, which provides 72% of the building's power requirements and saves \$149,000 per year in energy costs.

When New Jersey SRECs are taken into account, the solar installation is projected to achieve average annual savings of an incredible 133% – in effect turning what was previously an operating expense into extra revenue.

In addition to the substantial cost savings, the solar installation saves 1,142 metric tons of CO<sub>2</sub> annually; the equivalent of 2,736,000 car miles per year, or enough energy to power 169 homes for a year<sup>1</sup>.

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#### System description

- 4,092 315-watt Jinko solar panels
- 49 SolarEdge 20 kW inverters with optimizers

#### System size

- 1,288 kW

#### System Production

- 1,624,500 kWh annually
- 38,266,410 kWh over 25 years

#### Environmental Benefits

- 1,142 metric tons of CO<sub>2</sub> saved every year
- This is the equivalent of 2,736,000 car miles per year<sup>1</sup>
- Enough to power 169 homes for a year<sup>1</sup>