

Polaris Solar Solutions

A product presentation



TABLE of CONTENTS

- 1.** Who we are
About our mission
- 2.** What we do
Our product and its features
- 3.** Why you should use our product
Benefits for you and your company
- 4.** Conclusion
Setting the stage: Exploring the path forward

Who are we?

Our Mission at Polaris

"Polaris is dedicated to empowering a sustainable and energy-efficient future as a responsible global citizen.

We envision harnessing the boundless energy of the sun and transforming it into affordable and innovative solar solutions for all.

Through collaboration, integrity, and a profound respect for our planet and its inhabitants, we strive to promote sustainable living and reduce our collective carbon footprint.

At Polaris, our mission is not just to provide renewable energy, but to enlighten communities worldwide about the importance of solar power, fostering a culture of environmental responsibility and resilience for generations to come."



**Our
Mission**

Our Features

Unleash the Power: Key Features That Drive Results

Vertical Structure

The solar power system is mounted on a sturdy vertical structure, such as a pole or tower, designed to withstand diverse weather conditions, ensuring system **longevity and reliability**.

Solar Panels

Multiple solar panels are strategically mounted on the vertical structure to maximize sunlight exposure. **Equipped with a sun-tracking mechanism**, the panels follow the sun's path from sunrise to sunset, optimizing solar energy absorption

Battery Storage System

The system includes a battery storage component that stores excess solar power. Surplus energy generated by the solar panels is directed to the high-energy-density battery system for later use, **ensuring efficient and prolonged electricity storage**

Rotational Mechanism

The rotation mechanism allows solar panels to dynamically adjust their orientation based on sun-tracking sensors. Motors or suitable means **rotate the panels horizontally and vertically**, aligning them with the sun's position for optimal energy capture

Grid Connection

The solar power system is grid-connected, enabling **bidirectional electricity flow**. It powers structures and appliances while also returning excess power to the grid, allowing users to contribute and potentially receive compensation

Benefits

- **Striking Design:** A rotating tower or pole installation offers visually appealing designs that showcase the potential of solar energy in innovative ways.
- **Reduced shading:** Vertical installations minimize shading caused by nearby structures, improving energy capture in shaded areas.
- **Increased energy production:** Vertical axis with rotation captures sunlight from different angles, resulting in higher overall energy production.
- **Easy maintenance:** Rotating structures provide convenient access for the cleaning and maintenance of solar panels.
- **Efficient space utilization:** Vertical design optimizes limited space, making it suitable for urban areas or locations with space constraints.
- **Higher energy production:** Sun-tracking rotation ensures constant alignment with the sun, maximizing energy output compared to fixed installations.
- **Energy storage and grid return:** Battery storage system stores excess power for later use and returns surplus power to the grid, promoting self-sufficiency and potential financial benefits.
- **Durability and reliability:** Vertical structures and components are designed to withstand diverse weather conditions, ensuring long-term operation and system stability.

THANK YOU!

For any inquiries, please contact us
tslater@polarissolarsolutions.com