



# SAT ENERGY

**PRESENTED BY JORGE SANCHEZ**

VICE-PRESIDENT/DIRECTOR OF SPECIAL PROJECTS

[JORGE.S@SAT-ENERGY.BIZ](mailto:JORGE.S@SAT-ENERGY.BIZ)

(210) 688-4301





# CAPABILITIES

- Local, Minority & Women Owned, HUB Certified Company
- Manufacturer/Supplier and installer of Solar LED Lighting Fixtures and other Solar Products
- Service Multiple Industries: Residential, Commercial, State & Local Municipalities, etc.
- Work with Bexar County, City of San Antonio, TX Dept. of Agriculture, S.A. Joint Base and more.
- Our products help achieve carbon neutral objectives.
- And, also, we are the most economical and environmentally friendly option.





# OUR HISTORY

- SAT Energy began its operations in 2015
- Each year, the company has continued to expand its presence into different markets both locally and abroad
- February 2020, SAT Energy relocates to a larger office facility with the expectation of moving its manufacturing capabilities domestically
- July 2020, SAT Energy begins to manufacture and assemble small models of their solar LED light fixtures with the goal of eventually producing all models domestically
- August 2021, SAT Energy begins to produce our largest solar light fixture yet with the 120W Series C1 Solar LED Light Fixtures which can be used when much brighter applications are needed





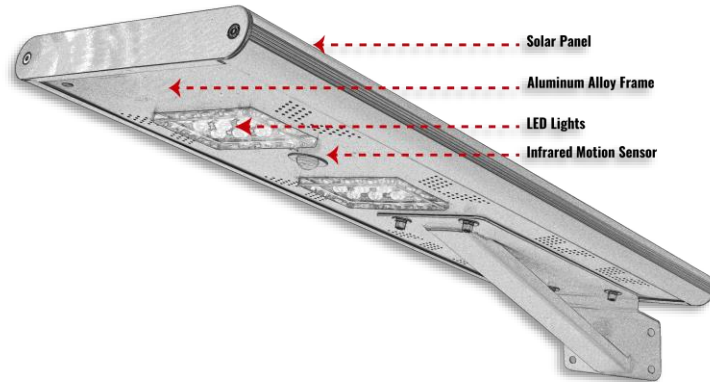


# GREENING GOVERNMENT INITIATIVE

- President Biden issued Executive Order 14008, calling on the Federal Government to align its management of property and procurement to support robust climate action while creating new jobs and catalyzing the country's clean energy industries. The Federal Government will lead by example to help achieve a 100 percent clean energy economy by 2035 and net-zero emissions by 2050.
- <https://www.whitehouse.gov/ceq/news-updates/2021/09/22/readout-of-the-inaugural-meeting-of-the-greening-government-initiative/>
- Outdoor lighting is responsible for 15–19% of global electricity consumption.
- According to estimates, cities consume almost 75% of global energy, and outdoor urban lighting alone can account for as much as 20–40% of budget expenditure related to power.
- LED (Light-Emitting Diodes) lighting achieves energy savings of 50–70% compared to the old technologies and 100% if solar powered lighting is used.
- SAT Energy can help you meet your carbon footprint reduction goals.



# HOW SOLAR LED LIGHT WORKS



- During the daytime, the solar panel gets hit by sunlight and stores the power into the lithium-ion battery which is the solar light's energy storage unit. The lithium-ion battery and charge control are both housed and protected inside the light fixture.
- At night, the lithium battery powers up the LED lights and other fixture components.
- The LED lights will automatically turn on when nighttime begins and turn off automatically when it receives sunlight shines down on the solar panel in the early morning.



# SOLAR LIGHTING IN THE DAYTIME

- Sunlight hits the Solar Panel at the top.
- Solar Panel uses the sunlight to generate the necessary power.
- Power generated from the Solar Panel is stored directly into the lithium battery system inside the light fixture.
- LEDs are turned off in the daytime while the fixture recharges.





# SOLAR LIGHTING AT NIGHT

- At night, the lithium battery powers up the LED lights and other fixture components.
- LED lights use that power to continue illuminating throughout the night until sunrise.

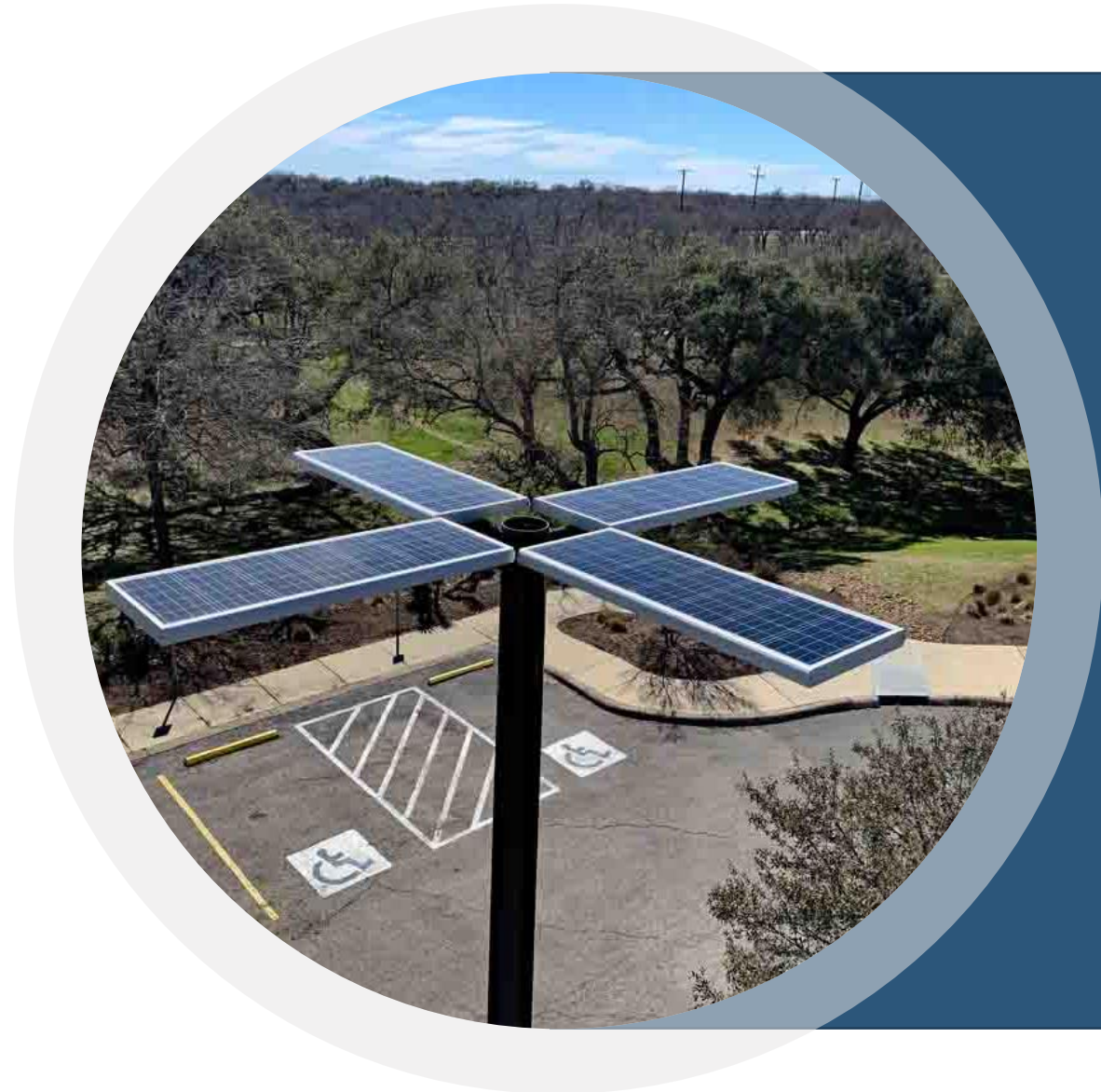






# SOLAR LIGHTING

- The process will repeat again when the morning arrives.



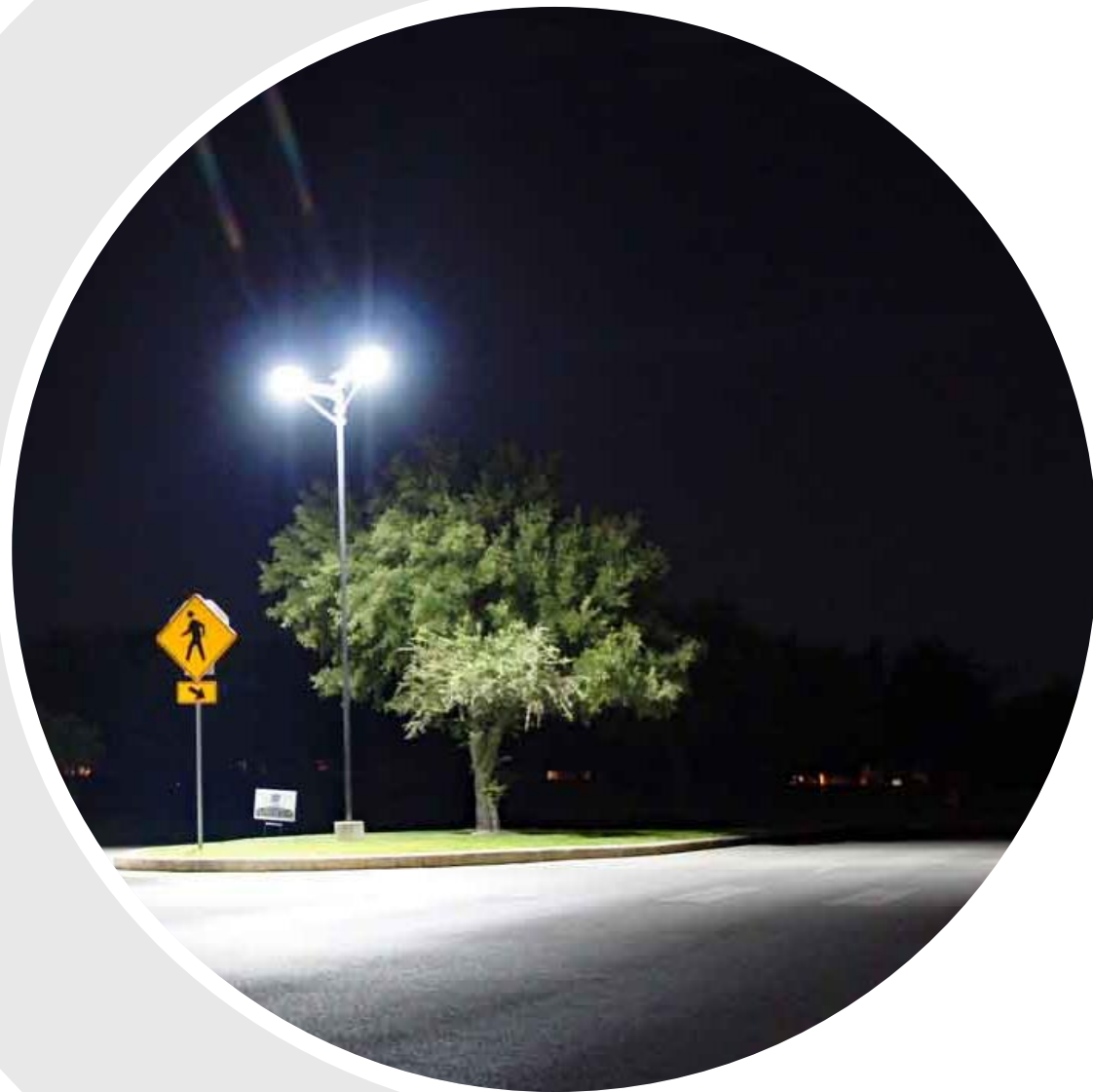




**SAT ENERGY**

# SOLAR LIGHTING APPLICATIONS?

---



# SOLAR LIGHTING APPLICATIONS

Commercial Parking Lots



# SOLAR LIGHTING APPLICATIONS

General Parking Lots





# SOLAR LIGHTING APPLICATIONS

Streets and Avenues





# SOLAR LIGHTING APPLICATIONS

Streets and Sidewalks



# SOLAR LIGHTING APPLICATIONS

Recreation Parks



# SOLAR LIGHTING APPLICATIONS

Park Trails



# SOLAR LIGHTING APPLICATIONS

Outdoor Sports Lighting and  
Recreational Facilities





# SOLAR LIGHTING APPLICATIONS

Playgrounds



# SOLAR LIGHTING APPLICATIONS

Pools and  
Recreational areas



# SOLAR LIGHTING APPLICATIONS

Gazebos and Carports





# SOLAR LIGHTING APPLICATIONS

Mailboxes





# SOLAR LIGHTING APPLICATIONS

Hog Hunting





**SAT ENERGY**

# **SOLAR LIGHTING BENEFITS?**

---



# BENEFITS OF SOLAR LIGHTING



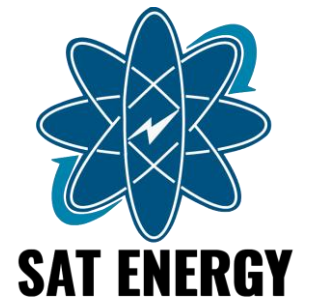
- Designed to help properties save on energy costs
- Integrated solar light fixtures reduce the need to wire and trench throughout a property which also lowers installation and labor costs
- Solar LED Lighting is an Eco-friendly alternative to traditional lighting
- They are not affected by blackouts



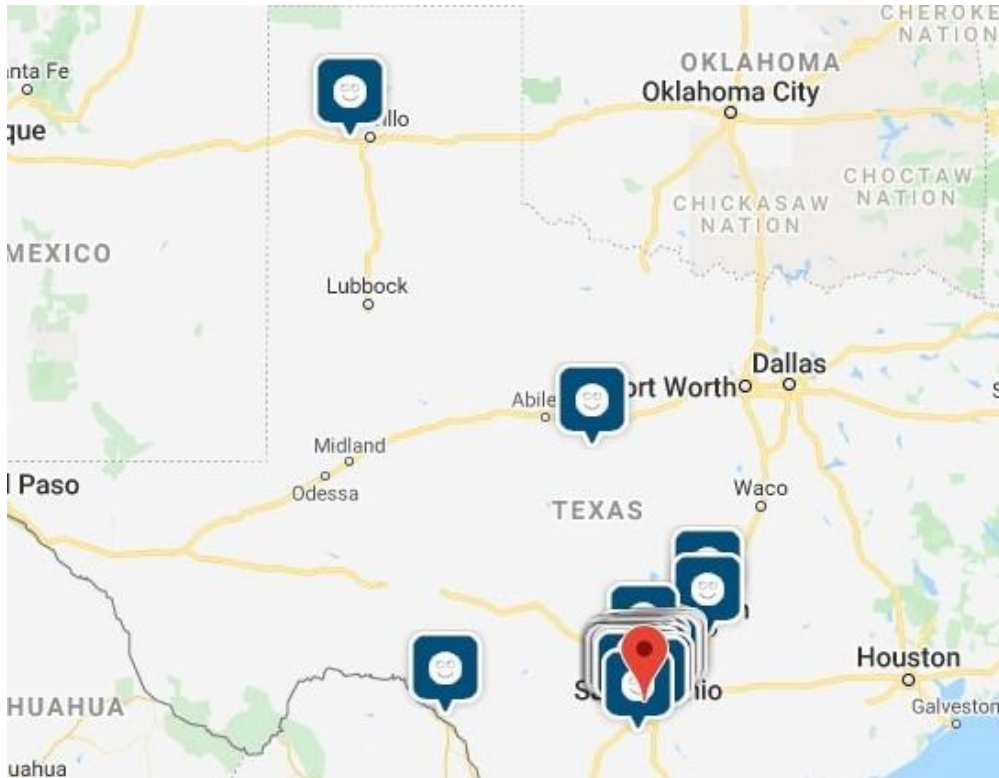
- The solar LED light fixtures are designed to power up and stay on each night even during whole weeks of rain or cloudy weather
- General power outages or blackouts do not affect the solar LED light fixtures as they run completely off-grid and can continue providing high quality energy efficient lighting each night
- The solar LED light fixtures do not take away power from the grid, can allow utility providers to divert power to other important energy usage



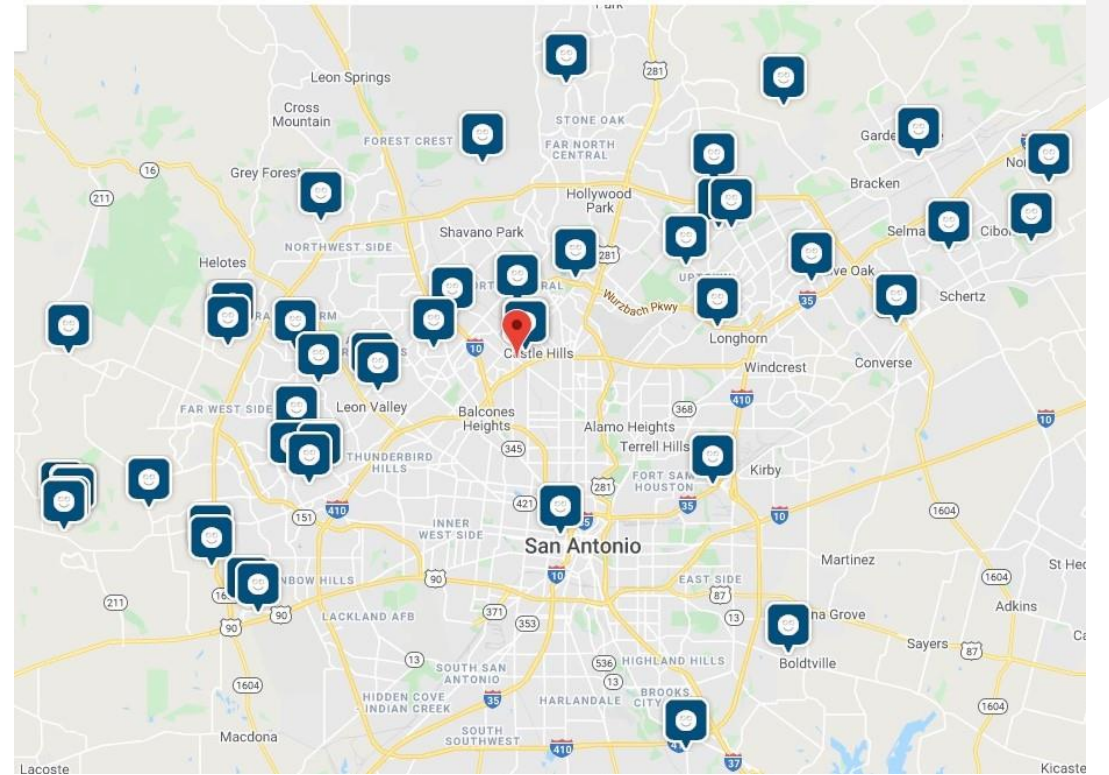
# SOLAR LIGHTING PROJECTS



## Texas



## San Antonio Metro



# CERTIFICATIONS



## RENEWABLE ENERGY & ENERGY EFFICIENCY

Certificate in management and calculation of Renewable Energies and Energy Efficiency by Solar Energy International



## ENERGY STORAGE

Certificate in management and calculation in energy storage and its applications, by Solar Energy International



## SMART GRID

Certificate in the implementation of smart grids at the utility level by Delft University of Technology in the Netherlands



## DIALUX

Certification in handling the Dialux software for lighting calculations by Dialux Germany. (In progress)

# THANK YOU!



## SAT ENERGY

### COMPANY PROFILE:

- DUNS: 079815194
- CAGE: 7XP33
- SBA PROFILE: P2163528

### CERTIFICATIONS:

- ESBE EMERGING SMALL BUSINESS ENTERPRISE
- HABE: HISPANIC AMERICAN BUSINESS ENTERPRISE
- HUB: HISTORICALLY, UNDERUTILIZED BUSINESS
- MBE: MINORITY SMALL BUSINESS ENTERPRISE
- SBE: SMALL BUSINESS ENTERPRISE
- WBE: WOMEN BUSINESS ENTERPRISE

E-MAIL: [JORGE.S@SAT-ENERGY.BIZ](mailto:JORGE.S@SAT-ENERGY.BIZ)

WEB: [HTTPS://WWW.SAT-ENERGY.BIZ/](https://www.sat-energy.biz/)

