



# SOLAR CANOPIES PROVIDE CLEAN ENERGY —AND SHADE— IN THE HOUSTON SUN

## Challenge

TGS, a global energy data company based in Houston, has set a sustainability goal to be net zero by 2030. Transitioning the company to renewable energy is critical to achieving this objective.

## Solution

Freedom Solar worked with TGS to design and install a solar parking structure on the employee parking lot. A total of 1,700 solar panels on 15 canopies generate onsite clean energy and shaded parking for employees.

## Customer Benefits

The solar parking canopies provide shelter from the hot Texas sun and generate nearly 60% of the electricity consumed at the company's headquarters, reducing the company's total global carbon emissions by 30%.



## Quick Facts



713 kW

Total System Size



1,650

Number of Panels



60%

Estimated Electricity Offset



\$42,754

Estimated First-Year Savings



1.4 Million Pounds

CO2 Avoided



Planting 1,000 Trees

Carbon Equivalent

## Solar Parking Structures Help TGS Reach Sustainability Goals

Houston-based TGS provides energy data and intelligence to customers worldwide. In 2021, the company set an ambitious goal to be net zero by 2030.

The commitment to being net zero targets the company's Scope 1 and 2 emissions, which include those generated at the company headquarters as well as indirect emissions from purchased electricity. In Houston, where grid-supplied electricity typically comes from non-renewable sources, TGS' goal is ambitious.

“The level of communication and coordination was outstanding. I would rate the installation a 10 out of 10.”

– Mary Ann Bordes,  
Director of Facilities and  
Administration, TGS



Transitioning the company's headquarters to solar energy would help TGS achieve their net zero objective. After doing some due diligence, the TGS facilities team determined that a solar canopy on the employee parking lot could provide much-needed shelter from the Texas heat while moving the company one step closer to its goal.

After talking with several solar companies, TGS turned to the team at Freedom Solar, the leading solar energy installer in Texas. Freedom worked with TGS, the city of Houston and the building manager to design and install a solar parking lot that would address city codes while providing maximum energy output.

“The Freedom team worked with the landlord and the city throughout the project and they understood that triangular relationship really well,” explains Mary Ann Bordes, Director of Facilities and Administration, TGS.

The system is on track to produce an estimated 901,710 kilowatt hours (kWh) of energy annually – enough to handle nearly 60% of the Houston facility's energy consumption. The project enables TGS to cut its global carbon dioxide emissions by 30%, a key milestone in the company's sustainability and waste-reduction journey.

Kristian Johansen, CEO at TGS, notes that the decision to install solar is both financially and environmentally beneficial: “Solar will provide TGS cost savings over time as energy is produced year over year. We are excited to provide a solution that satisfies our employees' request for covered parking and provides a sustainable solution in line with our net-zero initiatives.”

Best of all, the solarized parking lot will stand the test of time – churning out clean energy for the next 25 years or more – while helping to create a more stable, resilient Texas electricity grid.

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