

## Supplying Restaurants with Sun

*Jetro Cash and Carry • Bronx, NY*



Jetro Cash and Carry supplies a broad selection of products to independent restaurants, caterers and non-profit organizations in New York City. Jetro had considered turning to solar to power its restaurant depot in the Bronx, but Jetro had problems getting utility approval for the large solar system it needed because the older and congested electrical infrastructure in the area could not support the potential exported power from a grid-tied solar system of that size.

Con Edison Solutions electrical engineers worked with the utility to integrate a supervisory control and data acquisition (SCADA) system that transmits the solar system's data to the utility and allows for the shutdown of a transformer if a fault is detected. This was the first time a SCADA system for solar was applied to an underground utility network. It allowed the utility to apply the same technology to other sectors of its network – strengthening the grid and helping to eliminate some power outages.

Most important to the project owner, Jetro was able to have Con Edison Solutions install a 1.56 MW solar system, one of the largest installations in New York City at that time. That solar array supplies approximately 45% of the building's electricity needs and has resulted in a savings of more than \$220,000 annually.



### PROJECT HIGHLIGHTS

#### Environmental Benefits

CO<sub>2</sub> Offsets: 2,425,147 lbs. annually

CO<sub>2</sub> Equivalent: 210 cars removed from the road annually

#### Technology

SunPower 327

Panels: 4,760

#### System Size

1.56 MW (DC)

