



Ross Solar

A ConEdison Solutions company



Staying Out of the Dark

Carter, Milchman & Frank • Queens, NY



Carter, Milchman and Frank (CMF) is a leading supplier of industrial tools, building supplies and equipment to contactors in the New York City area. It was ironic that after Hurricane Sandy, when their business was most needed, CMF was unable to respond to calls because, like much of the area, the CMF operation had been left without power.

Vowing never to be in the same situation again, CMF hired Ross Solar to design a rooftop solar system with an integrated and rechargeable battery backup system for its 25,000 square foot warehouse in Long Island City. The nearly 100kW solar array was designed to generate 100% of CMF's power needs.

Ross Solar' in-house engineering team and resiliency experts worked closely with CMF to identify and isolate critical loads that would need to be powered during any period of power interruption. Recharging capabilities were designed to enable the entire system to be completely disconnected from the grid for safety purposes while the panels are still able to feed power back into the batteries.

Due to the energy expertise provided by Ross Solar, CMF became the first commercial property in New York City to install a resilient solar backup system. More importantly, the system installed by Ross Solar eliminates the interruption of CMF's operations due to blackouts.



PROJECT HIGHLIGHTS

Environmental Benefits

CO₂ Offsets: 149,239 lbs. annually
CO₂ Equivalent: 13 cars removed from the road annually

Technology

SunPower 327
Panels: 296

System Size

96 kW (DC)