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## Charlotte–Mecklenburg Government Center Solar Project FACT SHEET

### **SITE SELECTION AND PURPOSE:**

This site was selected due to its high visibility, educational opportunities, and related energy efficiency grant projects that the structure will help support. Once completed, this solar project will be the first system owned and operated by the City of Charlotte.

### **WHAT WILL BE OPERATED BY THE ENERGY CREATED?**

The energy generated will help power the deck's electrical system, which includes lighting, security systems, elevators and gates.

The solar structure will also help provide power to the soon- to-be installed electric vehicle charging stations. Five Nissan Leaf's and one Chevy Volt will be based out of the parking deck.

### **POWER GENERATION:**

The City's new solar structure will generate approximately 12,000 kilowatt hours of electricity per year; equivalent to the amount of energy consumed by an average U.S. household.

### **WHAT WILL MAKE UP THE STRUCTURE?**

The project consists of forty individual solar panels each measuring approximately 5½ feet tall and 3 feet wide. The framework is 33 feet by 22 feet, and weighs more than 5,000 pounds.

**PROJECT COST:** \$100,000

**GRANT FUNDING:** \$38,042

**ABOUT THE GRANT:** The CMGC's solar star project was funded in part by a Renewable Energy Grant awarded to the City by the North Carolina State Energy Office using American Recovery and Reinvestment Act (ARRA) funding.

To learn more about solar energy visit: [www.energy.gov](http://www.energy.gov)

For more information on all of Charlotte energy initiatives visit: [www.power2charlotte.com](http://www.power2charlotte.com)

