

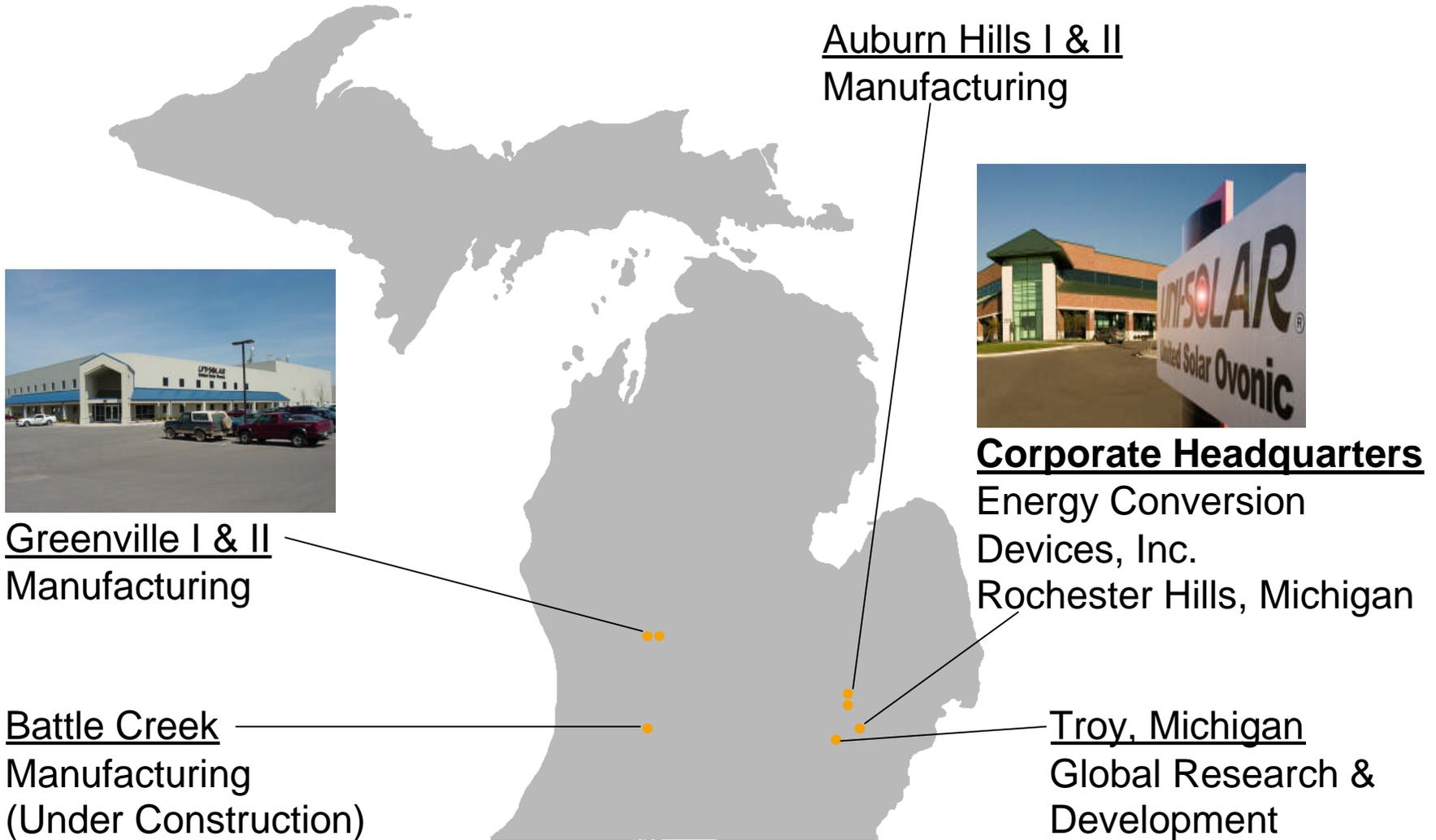


**UNI-SOLAR**<sup>®</sup>  
By Energy Conversion Devices



Nancy Bacon, Senior Advisor  
Energy Conversion Devices, Inc.  
& United Solar Ovonic  
January 22, 2009

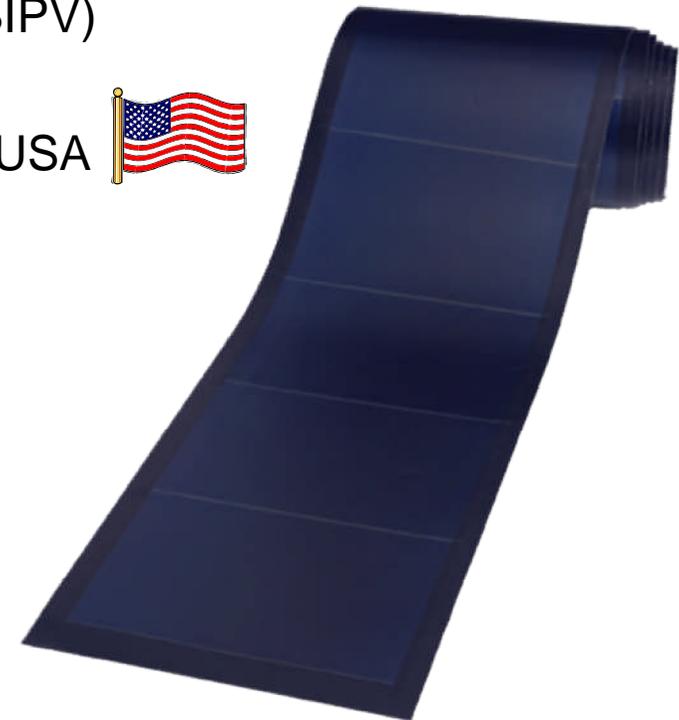
# A Global Company, based in Michigan



Since 2006, United Solar has increased its Michigan employee base four-fold to approximately 1200



- Lightweight:  $>1 \text{ lb / ft}^2$
- Durable: Works if punctured, withstands Category 5 hurricanes
- Flexible: Maximum structural and architectural capabilities
- Ideal for rooftop & building integrated (BIPV) applications
- Made in the USA 



# Michigan Alternative and Renewable Energy Center Muskegon, Michigan

**UNI-SOLAR**



Thin, flexible *UNI-SOLAR* laminates can be installed on any rooftop



# The World's Largest Rooftop Solar Installation ~2 million square feet of **UNI-SOLAR** laminates

**UNI-SOLAR**



12 megawatt installation using 85,000 lightweight *UNI-SOLAR* laminates  
General Motors plant - Zaragoza, Spain

## 2 Megawatt Installation on Distribution Center Riverside, California

**UNI-SOLAR**



*UNI-SOLAR* laminates enable Building-Integrated Photovoltaics (BIPV), in which solar PV technology is contained within the roofing material

  
SolarIntegrated



  
SolarIntegrated

# East Coast Solar PV

**UNI-SOLAR**



East Coast Warehouse  
Elizabeth, New Jersey



Halls Warehouse Corp.  
South Plainfield, New Jersey



Jet Aviation  
Teterboro, New Jersey



Residential  
Avalon, New Jersey



Coca-Cola Plant,  
Los Angeles, California

Rooftop solar installations are infinitely scalable for use on any sized building



Child Care Center  
Beaverton, Oregon

# Long Beach Convention Center, Long Beach, California

**UNI-SOLAR**



Distributed Generation using rooftop solar photovoltaics produces electricity at point of use, while improving land use in densely populated areas



## **To optimize the financial impact of the Economic Recovery Program, the Government should do the following to encourage the adoption of rooftop solar photovoltaics:**

### **1. Install solar systems on rooftops of Federal buildings:**

A robust, multi-year purchasing program from the Federal government would simultaneously benefit the U.S. economy, the environment and the domestic solar industry

### **2. Integrate government procurement efforts:**

To ensure these projects are funded quickly, and thus have an immediate impact on the economic recovery, the procurement process should be streamlined across all levels of government

### **3. Adopt policies that favor domestically produced components:**

To maximize the number of jobs created in the U.S., we recommend the creation of policies and/or incentives that favor domestic manufacturers

## 6 Megawatt U.S. Army Installation by Actus Lend Lease Oahu, Hawaii

**UNI-SOLAR**

The Department of Defense is already taking advantage of building-integrated photovoltaic (BIPV) applications



This installation placed 6 megawatts of *UNI-SOLAR* paneling across ~7,900 new and existing homes and community centers, replacing ~18,000 barrels of oil annually



Luke Air Force Base  
Phoenix, Arizona

**UNI-SOLAR**



# U.S. Army Carport Yuma Proving Ground, Arizona

**UNI-SOLAR**



# National Archives and Records Administration (NARA) Waltham, Massachusetts

**UNI-SOLAR**



The GSA already has track record of installing solar photovoltaics on government buildings. This building-integrated installation on a NARA building in Massachusetts uses *UNI-SOLAR*.

# Carports

**UNI-SOLAR.**



Carport  
Scottsdale, Arizona



Carport/Lunch Shelter  
Valencia, California



Santa Monica Civic Center Auditorium Carport  
Santa Monica, California