

THE ARIZONA SOLAR ADVANTAGE

Arizona has the highest concentration of sun in the United States – an average of 321 days of sun a year. Arizona’s fit with the solar industry goes far beyond our abundant solar radiation capacity.

Arizona is a renewable energy pioneer – the first state in the country to require utilities to generate at least some solar energy. Others followed our lead, and today, 24 states, including Arizona, have a renewable energy mandate.

Arizona’s Renewable Portfolio Standard (RPS) requires 15% of electricity from Arizona’s public utilities must come from renewable sources by 2025. Of that, A 30% carve out is for distributed generation. Combined with the federal tax credits and production incentives contained in the Energy Policy Act of 2008, these factors are driving Arizona’s growth in renewable energy development and are further expanding opportunities for companies looking for a market entry point in the Southwest.

World-class solar-related companies in Arizona include First Solar in Tempe, Centrosolar, SolarCity, and Stirling Energy Systems in Phoenix, Kyocera Solar in Scottsdale and Schletter and Global Solar (Solon AG) in Tucson.

THE ARIZONA BUSINESS ADVANTAGE

Arizona is presently the second fastest growing state in the U.S. with a median age of just 34.3 years and we are poised at the forefront of the next wave of scientific and technological advancement.

Arizona offers a high performance workforce that is diverse, skilled, and growing at a faster rate than any



other state. Employers in the state benefit from a workforce that is backed by a strong university system including Arizona State University, University of Arizona, and Northern Arizona University.

Arizona is pro-business and has demonstrated a long tradition of developing a business-friendly environment that transcends politics and economic trends.

Arizona has a globally competitive operating cost structure and locating here can often provide the lowest effective tax rates available anywhere in the United States on business investments.

Arizona offers targeted incentives that can reduce operating costs and provide cash assistance that can be used to train new and existing employees.



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SOLAR INDUSTRY HIGHLIGHTS IN ARIZONA:

- **The Arizona Solar Electric Roadmap**, completed in January 2007, projects a market penetration in Arizona for solar approaching 1,000 MW by 2020 and close to 2,600 MW of solar installations by 2025, with rooftop PV accounting for 45 percent of the capacity. This represents a tremendous potential for new jobs in Arizona estimated at over 3,000 positions in the rooftop photovoltaic and central solar sectors by 2020. These jobs range from direct manufacturing to installation and construction.
- **Arizona** is the future home of Abengoa's Solana Plant. A joint venture with Arizona Public Service (APS), it will be the world's largest utility-scale concentrated solar plant and produce 280 MW of power.
- **Global Solar** is in the process of installing a 750-kilowatt solar field on six acres adjacent to their Tucson plant. This will be the largest CIGS solar field in the world.
- **Arizona Public Services' Solar Test and Research Center (STAR)** is one of the world's premier solar test and research facilities, where researchers test and develop technologies for converting solar energy into electricity.
- **Arizona State University (ASU)** is one of four schools (MIT, Penn State, and Stanford) to receive two recent Department of Energy Awards totaling \$1.7 million for research in next-generation PV technology.



- **ASU** is home to the world's first school of sustainability (Global Institute of Sustainability).
- **ASU** has joined forces with TUV Rheinland Group to create the most comprehensive, sophisticated, state-of-the-art facility for testing and certification of solar energy equipment in the world. Named TUV Rheinland PTL, LLC, the facility will bring together the brightest that science has to offer and boost Arizona's presence in the growing industry. The unit will tie together ASU's work in the solar field, from nanotechnology to its Photovoltaic Testing Laboratory, (PTL), under one banner. ASU recruited world-renowned solar expert George Maracas to be the solar lab's chief operating officer.



ARIZONA DEPARTMENT
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The center for economic advancement

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