First Solar is a leading global provider of comprehensive photovoltaic (PV) solar systems using advanced module and system technology. Through determined innovation, we deliver solar energy that is an economically attractive alternative to fossil-fuel sourced electricity. From module sales through turnkey power plant development and operations and maintenance, First Solar is a world-class partner for reliable, clean energy generation.

High-Efficiency Technology with a Proven Energy Advantage
As a field-proven technology, First Solar’s high-efficiency modules offer a clear energy yield advantage over silicon-based modules by delivering competitive efficiency, higher real-world energy yield and long-term reliability. Proven to deliver significantly more usable energy per nameplate watt than competing technologies, and a record of reliable plant performance, First Solar technology delivers more energy, more consistently, over the lifetime of the power plant.

Profitable Growth and Stability
With more than 20GW of modules shipped today, First Solar has a demonstrated history of financial stability and manufacturing success. As a project partner, we bring extensive expertise into how today’s PV power plants are developed, financed, designed, constructed and operated to maximize profitability for our customers and strategic partners.

Global Leadership
• PIONEERING SOLAR-PLUS-STORAGE (PVS) PROJECT THAT CAN DELIVER CLEAN POWER AT A PRICE COMPETITIVE WITH GAS PEAKER PLANTS
  Sun Stream PVS, LLC | 50MW AC | Arizona, USA

• THE LARGEST SOLAR PROJECT IN THE SOUTHEAST U.S. WHEN COMPLETED
  Twiggs | 200MW AC | Georgia, USA

• DISPLACING THE ENERGY REQUIREMENTS OF A DESALINATION PLANT
  Greenough River | 10MW AC | Geraldton, Australia

• RELIABLE ENERGY IN THE MIDDLE EAST
  Shams Ma’an | 52.5MW AC | Powered by First Solar Modules | Dubai, UAE

• GROWING SOLAR DEPLOYMENT IN INDIA
  1.8GW Powered with First Solar Modules

• OVER 4.5GW DEPLOYED ACROSS EUROPE
  4.5GW+ Powered with First Solar Modules
History of Solar Innovation

First Solar makes a consistent commitment to invest in R&D, maintaining a rate of innovation enabling efficiency gains three times faster than multi-crystalline silicon technology. We currently hold world records for thin film cell conversion efficiency (22.1%) and module conversion efficiency (18.6% aperture).

Lowest Environmental Impacts

First Solar technology generates clean electricity for 25+ years with no carbon emissions or air pollutants. Our innovative manufacturing processes have the smallest carbon footprint, lowest lifecycle water use, and the fastest energy payback time of any solar PV module offering on the market.

Our technologies lower the levelized cost of electricity (LCOE), increase energy yield, and provide stable and reliable grid integration. Our comprehensive PV energy solutions address the energy needs of today and result in reliable, sustainable and profitable solar solutions.

World-Class Recycling Solutions

First Solar is committed to providing a commercially attractive recycling solution for PV power plant and module owners to help them meet their module end-of-life (EOL) obligation simply, cost-effectively and responsibly.

Our state-of-the-art recycling facilities are operational at all our manufacturing plants and achieve high recovery rates. Over 90% of the semiconductor material can be reused in new modules and 90% of the glass can be reused in new glass products. First Solar’s long-standing leadership in PV life-cycle management and recycling gives system owners confidence in knowing that their modules will be managed to sound and responsible global standards.