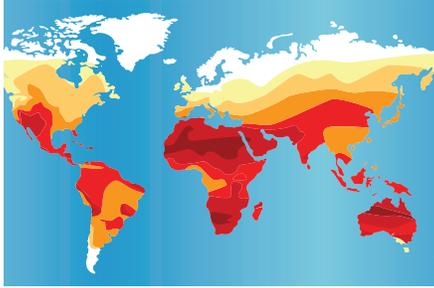


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**eSolar**<sup>™</sup>

Utility-Scale Solar Power



World electricity consumption is projected to double by the year 2040.

To serve the renewable electricity needs of utility-scale energy providers, eSolar has developed a market disrupting solar thermal power plant technology. Generation can be scaled from 25 MW to over 500 MW at energy prices competitive with traditional fossil fuels.

### **The eSolar Solution: Smaller is Better**

eSolar's modular, scalable power plant architecture enables custom built facilities with generating capacities of 25 MW to 500 MW and energy prices that are competitive with fossil fuels. Unlike other solar technologies, eSolar systems provide competitive energy prices even at the 25 MW level, and can expand generation capacity to over 500 MW to meet the needs of any energy retailer.

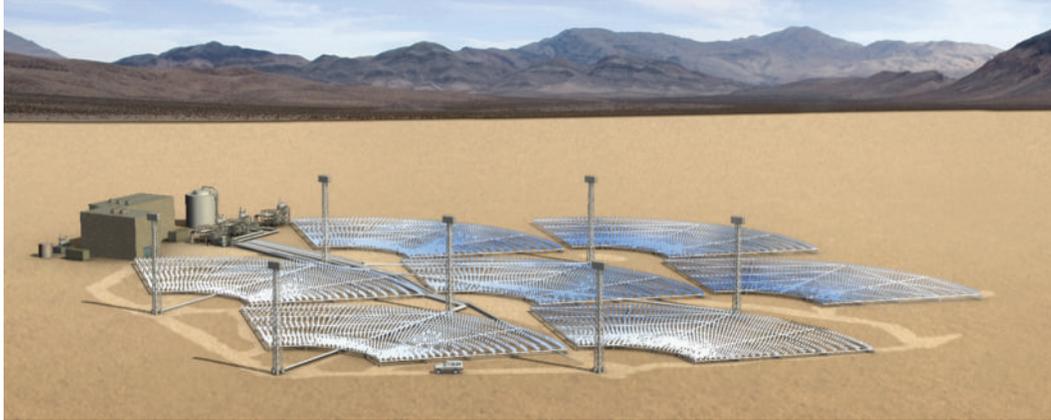
eSolar constructs power plants using a tiered delivery model. Our power plants are structured on a 25 MW base unit, called a "power module." Each module is a complete power plant, consisting of several thermal receiver towers, each with a field of heliostat mirrors, and a central power block with steam turbine and generator. Modules can be replicated as many times as necessary to fit specific power requirements.

### **Problem and Need**

Public demand and government pressure for renewable power is at an all time high, but utilities must pay very high prices for existing renewable technology. The governments of several western states have mandated that utilities produce 20% of their energy from renewable resources, requiring the construction of at least 30,000 MW of clean energy generation capacity by 2015. This renewable push could cost utilities billions of dollars due to the high price of current renewable energy options. A utility that can harness a cost effective, on-peak renewable energy source will meet RPS goals while keeping customer rates low.

### **Break Through**

eSolar technology replaces the front end of a traditional power plant, using solar heat instead of fossil fuel heat to create steam to power electric generators. Previous attempts to deliver affordable solar thermal power have had mixed results. The economic tipping point occurs when the capital cost of the solar field is less than the capital costs and fuel costs of the traditional system. To address this issue, eSolar has developed a modular power plant architecture designed to take advantage of mass manufactured components at every level.



## Product

eSolar has designed a solar field layout that minimizes installation time and cost. By employing a repeating structure and a revolutionary calibration system, eSolar plants come on line quickly, and that means more power to satisfy renewable portfolio goals. Utilizing very low wind profile heliostats, eSolar provides higher reliability in all wind conditions, lower risk of wind damage, and more power plant up-time. Power plants are safeguarded by both the replication of the critical components within each module, and the repetition of modules within a power plant. If one module goes off line, power continues to be generated by the other modules in the plant. For both large and small installations, this redundancy provides a high level of energy security under a wide variety of operating conditions.

### Low Cost

Mass manufacturing means eSolar power plants are cost competitive with fossil fuels.

### Fast Installation

Power plants come on-line sooner, which means more renewable power to meet compliance goals.

### Low Profile

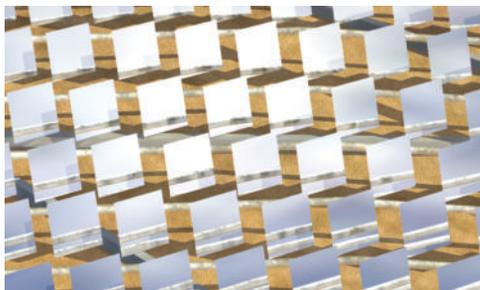
Our durable heliostat design relies on a low profile to minimize wind drag.

### Scalable

Scalability allows for custom power solutions from 25 to over 500 MW.

### Reliable and Stable

eSolar plants employ replicated components and modules to provide system redundancy.



## Contact Us

eSolar develops power projects worldwide, with opportunities for developers to implement eSolar technology in their own renewable energy projects. Please contact eSolar for further details.

**Robert Rogan** | VP Sales & Marketing

(626) 685-1852  
rob@esolar.com

## Management

### Asif Ansari | Chief Executive Officer

A successful technical entrepreneur for over 20 years, Asif Ansari has a track record of driving technologies from concept through manufacturing, and has personally managed the development and release of over 20 technical products in the clean tech and aerospace markets. Most recently, Mr. Ansari spent five years as the Vice President of Engineering and Manufacturing at Energy Innovations, where he led the development and engineering of the company's concentrating solar photovoltaic products. Mr. Ansari holds both an MS and BS in Mechanical Engineering from the University of Minnesota.

### Dale Rogers | EVP Strategy & Business Development

Dale Rogers has almost 30 years of experience in solar thermal and nuclear power systems and plant operations. Most recently, Mr. Rogers was responsible for strategic planning and business development for Solar Programs at Rocketdyne. He first became involved in CSP systems in the mid-1990s while at Rocketdyne, where he led the initial efforts to commercialize the Solar 2-based power tower technology. Dale is a U.S. representative to the SolarPACES Executive Committee. Dale obtained his M. Eng. and BS degrees in Nuclear Engineering from Texas A&M University.

### Robert Rogan | VP Sales & Marketing

Most recently, Mr. Rogan was the founder and VP of Business Development at Bionic Harvest, a technology start-up focused on bringing vibration energy harvesting technology to market. Mr. Rogan has several years of business development and consulting experience. Mr. Rogan obtained his MS and PhD in Materials Science at the California Institute of Technology, and he holds a BS, Scholar of the College, from Boston College.

### Jim Shandalov | VP Business Development

Jim Shandalov has over 20 years of experience in the energy industry. Before joining eSolar, Mr. Shandalov managed PG&E's renewable energy solicitation process, leading the transaction team on execution of contracts for solar, wind, and other renewable energy sources. Jim also worked PG&E's Structured Transactions Group, where he negotiated and executed over \$3 billion dollars worth of contracts with natural gas power plant developers. Prior to joining PG&E, Mr. Shandalov spent over ten years in various roles including Director of Development and Energy Trading Manager with Mirant Corporation and Southern Company. Jim received his MBA from Georgia State University, and holds a BS in Electrical Engineering from the Georgia Institute of Technology.

### Wayne Stevens | VP Operations & Finance

With over 20 years of experience managing the operations and financial controls of engineering enterprises, Wayne Stevens has managed a range of endeavors from large single projects of over \$300 million to complex manufacturing and supply chain systems for mass produced technology products. In 1995 Mr. Stevens founded Tesla Industries, which currently manufactures over 40 different products including compressed natural gas (CNG) filling stations. Mr. Stevens has an MBA from the University of Chicago and a BS in Mechanical Engineering from Purdue University.

### Mark Fournier | VP Project Development

Mark Fournier has 30 years of global experience as a project manager responsible for all phases of turnkey power plant development. Prior to eSolar, Mr. Fournier was a Vice President and Senior Project Manager at Black & Veatch, a leading global engineering and construction company. At Black & Veatch, Mr. Fournier served on more than 50 power plant projects, representing over 10 GW of generation and encompassing a wide range of technologies, cycle types, and fuels. He has served in lead roles for projects across North America, as well as in the Middle East and Far East including Saudi Arabia, China, Indonesia, and Malaysia. Mark received his BS in Mechanical Engineering from the University of Missouri - Rolla.

### Carter Moursund | VP Engineering

For the past ten years, Carter Moursund has been pointing light in one form or another. As founder and Chief Technology Officer at ClearMesh Networks, Mr. Moursund led the company from inception to a peak of 45 employees. He has experience in building successful engineering teams and specific expertise in creating novel solutions to complex optical and electronic problems. Mr. Moursund has an intuitive knowledge of a broad range of technical issues based on decades of work in engineering. Mr. Moursund holds a BS in Electrical Engineering from the California Institute of Technology.

### Dan Reznik | VP Product Development

With a passion for developing creative, advanced solutions for solar energy problems, Dan Reznik spent several years at Siemens R&D as an Innovator, where he developed and productized original concepts in parcel logistics, distribution, and medical information systems. Mr. Reznik is the author of over 30 peer-reviewed technical publications, several patents, and book chapters. Besides English, Mr. Reznik speaks fluent Portuguese (native), Spanish, and French. He obtained a PhD in EECS from UC Berkeley.



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