



# Sandia National Laboratories

## Intellectual Property Available for Licensing

SAND2011-6044P

### Solar Technologies

Optical Fringe Analysis Slope Tool for (Solar) Mirror Characterization (SOFAST)

US Patent Pending

Process for Nanoscale Texturing of Silicon Solar Cells

US Patent # 6,329,296

Improved Method for Measuring Solar Irradiance

US Patent and Copyright Pending

Theoretical Overlay Photographic Alignment of Parabolic Solar Through Concentrators (TOPCAT)

US Patent Pending and US Patent# 7,667,833

Non-Invasive, Low-Cost Energy Meter for Fixed Variable Flow Solar

US Patent# 6,960,017

Reflected Target Technique for Canting and Focusing Heliostat Facets (H-FACET)

US Patent Pending.

Alignment Method for Parabolic Trough Solar Concentrators (TOPCAT)

US Patent# 7,667,833

Reflected Target Technique for Canting and Focusing Heliostat Facets (TOPHAT)

US Patent Pending

### Wind Technologies

Nonlinear Aeroelastic Power Flow Control Design for Dynamic Stall

US Patent Pending

Nonlinear/Adaptive Power Flow Control Applied to Power Engineering

US Patent Pending

### Energy Efficiency Technologies

Turbo-Alternator-Compressor Design for Supercritical Fluids

US Patents Pending

Energy Assurity Microgrid

US Patent Pending

Integrated Boiler, Superheater, Decomposer for Sulfuric Acid

US Patent# 7,645,437

High Surface Area Platinum Catalysts to Improve Fuel Cell Efficiency (NanoCoral™)

US Patent# 7,374,599  
US Patent# 6,627,048

### Cyber Security

Enhancement of Utilization of Encryption Engine

US Patent# 7,362,859



Sandia is a multiprogram laboratory operated by Sandia Corporation, a Lockheed Martin Company, for the United States Department of Energy's National Nuclear Security Administration under contact DE-AC04-94AL85000.

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## Water Technologies

Optimized Alumina Coagulants  
for Water Treatment

US Patents Pending

Hedgehog™ In-Tank  
Containment Filter

US Patent# 7,514,004

Inorganic Sorbents for Anion  
Removal

US Patent# 7,074,336  
US Patent# 7,122,502  
US Patent# 7,244,359

## Geothermal Technologies

Inherently Safe In Situ Uranium  
Recovery

US Patent Pending

## Environmental Technologies

Method of Making Nanostructured  
Glass Ceramic Waste Forms

US Patent Pending

Nanoporous Aluminum Oxide as  
a Getter for Volatile  
Radionuclides

US Patent Pending

In Situ Formation of Phosphate  
Barriers in Soil and for  
Sequestering Radionuclides and  
Heavy Metals

US Patent# 6,416,252  
US Patent# 6,592,294

A Miniature Quadrupole Mass  
Spectrometer Having a Cold  
Cathode Ionization Source

US Patent # 6,452,167  
US Patent # 6,633,041

Deconstruction of Cellulosic  
Biomass for Biofuels Production

US Patent Pending

**Various licensing and partnering options are available for these  
technologies. To learn more about the technologies listed and  
additional technologies please contact:**

**Mark Allen**

**at**

**(505) 844-7197**

**msallen@sandia.gov**



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