

**DOE Energy Storage Systems Program (DOE/ESS)
Awarded SBIR Projects**

	Solicitation	Company	Project
1.	FY09 Phase II Topic 6a (Energy Storage)	Excellatron Solid State, LLC	Novel Solid State Electrolyte Development (details)
2.	FY09 Phase II Topic 6b (Energy Storage)	Enogetek, Inc.	High Performance Hydroxyl Conductive Membrane For Advanced Rechargeable Alkaline Batteries (details)
3.	FY09 Phase I Topic 8a (Energy Storage)	Electrochemical Systems	Development of High Energy, Low Temperature Rechargeable Battery for Load Leveling Application (details)
4.	FY09 Phase I Topic 8a (Energy Storage)	Materials Modification	Nanostructured Cathode for Magnesium Ion batteries (details)
5.	FY09 Phase I Topic 8a (Energy Storage)	Precision Energy and Technology	Novel Hybrid Electrochemical Energy Storage Device (details)
6.	FY09 Phase I Topic 8b (Energy Storage)	Physical Sciences	Non-Fracturing High Performance NiMH Negative Electrode (details)
7.	FY09 Phase I Topic 63a (Energy Storage)	NEI Corporation	A Low Cost Utility-Scale Flow Battery with a New Chemistry (details)
8.	F 09 Phase I Topic 63a (Energy Storage)	TDA Research	Liquid Salt Redox Couples for Utility Scale Flow Batteries (details)
9.	FY 08 Phase I Topic 6a (Energy Storage)	NEI Corp.	Membranes for Solid State Lithium Batteries (details)
10.	FY08 Phase I Topic 6b (Energy Storage)	Enogetek	High Performance, Hydroxyl Conductive Membrane for Advanced, Rechargeable Alkaline Batteries (details)
11.	FY08 Phase I Topic 6b (Energy Storage)	Lynntech	Solid Hydroxyl Conducting Electrolyte (details)
12.	FY08 Phase I Topic 6b (Energy Storage)	Giner	Composite Alkaline Battery Electrolyte with Improved Hydroxide-Ion Transport Number (details)

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13.	FY08 Phase I Topic 29b (Power Electronics)	Arkansas Power	SiC-based Solid-state Fault Current Control System for Vulnerability Reduction of Power Distribution Networks (details)
14.	FY08 Phase I Topic 29b (Power Electronics)	Electrocon Int'l, Inc.	Simulating the Smart Electric Power Grid of the 21 st Century (details)
15.	FY08 Phase I Topic 28a (Power Electronics)	Aegis Technology	Advanced High Temperature Packaging with Non-Wire Bond Interconnection for SiC Switches (details)
16.	FY 08 Phase II Topic 45a (Power Electronics)	Genesic Semiconductor	Large Area SiC GTO Thyristor Development: Wideband Gap High Voltage High Frequency Switches (details)
17.	FY 08 Phase II Topic 45a (Energy Storage)	Giner, Inc.	Nano-engineered Carbon Electrochemical Capacitors (details)
18.	FY 07 Phase I Topic 45c (Energy Storage)	ADA Technologies	High Performance, Carbon Nanomaterials for Electrochemical Capacitors (details)
19.	FY 07 Phase I Topic 45c (Energy Storage)	Giner	Nano-engineered Carbon Electrochemical Capacitors (details)
20.	FY 07 Phase I Topic 45a (Power Electronics)	Genesic Semiconductor	Large Area SiC GTO Thyristor Development: Wideband Gap, High Voltage, High Frequency Switches (details)
21.	FY 07 Phase I Topic 45a (Power Electronics)	Semisouth Laboratories	An Innovative Silicon Carbide (SiC) 6-KV, 1-KA Gate Turn Off (GTO) Thyristor (details)
22.	FY 07 Phase I Topic 45a (Power Electronics)	Solitronics	High Voltage SiC Emitter Turn-off Thyristor (details)
23.	FY 06 Phase II Topic 1a (Power Electronics)	Aegis Technology	An Advanced Power Converter System Using High Temperature, High Power Density SiC Devices (details)
24.	FY 06 Phase II Topic 1a (Power Electronics)	Arkansas Power	Very High Temperature (400+ °C), High Power Density (100kW), Silicon Carbide (SiC), Three-Phase Inverters (details)

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