



**Applied Materials.** 3050 Bowers Avenue, P.O. Box 58039, Santa Clara, CA 95054-3299. Tel: 1-408-727-5555. Applied Materials creates and commercializes nano-manufacturing. The firm employs approximately 14,000 people throughout [Canada](#), China; Europe and [Israel](#); [India](#); Malaysia and Singapore; Japan; South Korea; Taiwan; and the United States in the production of: semiconductor (aka Integrated Circuit) chips for all electronic gear, Flat Panel Displays for computers and television, glass coatings for homes and buildings, Web (flexible substrate) coaters for industry and PV solar cells and modules using both thin film and crystalline photovoltaic technology.

**AREVA** is a [French](#) conglomerate that is mainly known for nuclear power, but also has interests in other [energy](#) projects. The [German](#) company [Siemens](#) owns 34 percent of the shares of AREVA's subsidiary, AREVA NP, in charge of building the European Pressurized Reactor. AREVA and Duke Energy have launched a joint venture company, ADAGE, to develop biomass to electricity projects in the U.S. AREVA will design and build biomass power plants, while Duke Energy Generation Services (DEGS) will manage operations. AREVA has designed and built more than 100 biopower facilities in Europe, Asia and South America with capacity of more than 2,500 MW. AREVA NC Inc.'s headquarters are located in [Bethesda, MD](#), while AREVA NP Inc.'s North American Headquarters are located in Lynchburg, VA.

**Babcock & Wilcox Co.**, 800 Main Street, 4th Floor, Lynchburg, VA 24505. ([BWX Technologies Inc.](#)). Manufacturer of nuclear materials and nuclear reactor components. The company has manufactured more than 200 nuclear steam generators. Babcock & Wilcox Power Generation Group, Inc. has a worldwide installed capacity of more than 300,000 MW. Having supplied some of the world's largest and most efficient steam generating systems, B&W PGG has the experience and technical capability to reliably convert the energy in a wide range of fuels to energy in steam.

**Bechtel Corp.**, San Francisco, CA. One of the largest [engineering](#) companies in the world. Some 40,000 employees in 50 countries with \$20 billion in revenue. A leader in construction and operation of nuclear power plants. Bechtel Energy Resources Corporation and GE Energy have established an alliance to develop a standard commercial offering for optimized integrated combined-cycle gasification (IGCC) projects in North America. IGCC systems convert coal and other hydrocarbons into synthetic gas, which after cleanup is used as the primary fuel for a gas turbine in a combined-cycle system.

**Black and Veatch**, Overland Park, KS. Firm has more than 9,600 professionals working in more than 100 offices handling water and energy projects in 70 countries. Services include new facility planning, siting, water management, rail facilities, and environmental compliance & permitting.

**BP Solar**, 630 Solarex Court, Frederick, Maryland 21703, Tel: 1 301 698 4200 .The parent firm, BP, has been involved in [solar power](#) since 1973 and its subsidiary, [BP Solar](#), is now one of the world's largest solar power companies with production facilities in the [United States](#), [Spain](#), [India](#) and Australia, employing a workforce of over 2,000 people worldwide. BP Solar is a major worldwide manufacturer and installer of [photovoltaic solar cells](#) for electricity. The company has begun constructing two new solar photovoltaic solar cell manufacturing plants, one at its European headquarters in Tres Cantos, [Madrid](#), and the second at its joint venture facility, Tata BP Solar, in [Bangalore](#), India.

**Chevron California Renewable Energy Inc.**, subsidiary of Chevron Corporation. Researching opportunities in ocean energy. Cobasys HQ. 3740 Lapeer Road South, Orion, Michigan 48359. Telephone: 248-620-5700. A joint venture between Chevron subsidiary Chevron Technology Ventures and Energy Conversion Devices. Operates \$137 million manufacturing plant 50 Ovonic Way, Springboro, Ohio 45066. Telephone: 937-743-1001. Produces battery systems for hybrid electric vehicles (HEVs), and systems that supply stationary back-up power.

**Doosan Heavy Industries & Construction Co Ltd.**, Chamgwon, South Korea. Has built 15 nuclear power plants around the world and has six more under construction. Doosan Heavy Industries & Construction Co., Ltd. 555, Guygok-dong, Changwon-City, Kyongnam, South Korea. Said to be the world's No. 1 desalination plant builder with 1.38 million tons per day in total capacity contracted. Doosan Hydro Technology, 912 Chad Lane, Tampa FL 33619 is the U.S.-based subsidiary of Doosan Heavy Industries & Construction. 140-2, Kye-dong, Jongno-gu, Seoul, 110-793, South Korea. Construction of petrochemical plants, power generation and desalination plants, nuclear power plants and industrial and environmental plants.

**Duke Energy**, Charlotte, NC, has assets in the United States, Canada and Latin America. [Duke Cogema Stone & Webster](#) (DCS) is a consortium providing services to the US Department of Energy. AREVA and Duke Energy have launched a joint venture company, ADAGE, to develop biomass to electricity projects in the United States. AREVA will design and build biomass power plants, while Duke Energy Generation Services (DEGS) will manage operations. See also AREVA file and ADAGE project.

**FPL Energy**. Subsidiary of Florida Power and Light. P.O. Box 14000, Juno Beach, FL 33408-0420. 561-691-7171. FPL Energy is a leading clean-energy provider with natural gas, wind, solar, hydroelectric and nuclear power plants in operation in 25 states and Canada. More than 90 percent of FPL Energy's electricity is generated by clean fuels. FPL is the North American leader in wind-energy generation, and operates the two largest solar fields in the world. FPL Energy has 88 percent ownership of the Seabrook Nuclear Station in New Hampshire; a 70 percent interest in the Duane Arnold nuclear plant in Iowa; and 100% percent ownership of Point Beach nuclear plant in Wisconsin.

**Gamesa Corporacion Tecnologica Sa.**, C/ Ramirez De Arellano 37, 28043 Madrid, Spain. +34 915 031 700. One of world's largest wind turbine manufacturers has 32 production centers in Spain, the United States and China. Gamesa is expanding operations in Pennsylvania by investing another \$34 million to open three new modern manufacturing centers on 20-plus acres of U.S. Steel's former Fairless Hills industrial site. The company previously had invested \$50 million in Pennsylvania to locate its North American headquarters in Philadelphia and construct and operate a separate manufacturing facility in Ebensburg, Cambria County.

**General Electric, Inc.**, Schenectady, N.Y. GE is the world's [third largest company](#). A conglomerate long before the term was coined, GE is arguably the most successful organization of this type. The company is a leading manufacturer of turbines and generators used in electric power plants around the world. Today GE is a major player in many energy industries as indicated by these affiliates:

- **GE Energy**, 4200 Wildwood Parkway, Atlanta, GA 30339. [GE Wind Energy](#), is a unit of GE Power Systems, based at Marietta, Ga. GE has acquired Enron Corp., mfgs of wind turbines and has become the country's largest manufacturer of turbines and the second-largest in the world. In 2008 GE Energy Announced a Second Wind Turbine Agreement Exceeding \$1 Billion with Invenergy. GE expects more than \$1 billion per year revenue.
- <http://www.alternative-energy-news.info/ge-invests-acciona-wind-farm/>**GE Energy Financial Services**, an investor in energy and water industries is putting \$141 million into a [wind farm](#) being developed by Acciona. This Tatanka Wind Farm, on the North Dakota-South Dakota border, will power 60,000 homes. GE recently passed the \$4 billion mark with a \$100 million investment in three wind farms in New York.
- **General Electric's Technology Lending** unit has extended a loan of \$2.6 million to Ocean Power Delivery for its Portugal wave energy farm. Also, GE will take an equity position as part of OPD's \$22.5 million program. GE is an investor in [Pelamis Wave Power Ltd.](#), 104 Commercial St., EH6 6NF, Edinburgh EH6 6NF, UK. Tel: +44 (0)131 554 8444 (formerly known as Ocean Power Delivery Ocean Power Delivery) developer of Pelamis wave converter.
- **Global Nuclear Fuel (GNF)**: GE produces four main product lines in the nuclear field: new reactors, nuclear fuel, reactor services and performance services. Global Nuclear Fuel (GNF) is a joint venture of General Electric, Hitachi, and Toshiba for supply of nuclear-fuel.
- **GE-NGK-Locke, Inc.** 2525 Insulator Drive, Baltimore, MD 21230 Phone (410) 347-1700. Began operation in the United States as NGK Insulators of America, Inc., as an exclusive sales division of NGK Insulators, Ltd., Japan. The name became NGK-Locke, Inc., when a joint venture between General Electric and NGK was formed.
- **GE Healthcare** interests include Bio-Sciences Corp., 800 Centennial Ave, Piscataway, NJ 08854 (formerly Amersham Pharmacia Biotech, Inc.
- **GE Energy (Solar Division)** 231 Lake Drive, Newark, Delaware, Tel: 1 302 451 7500.

**Google, Inc.**, Mountain View, CA, is expanding into alternative energy "to ease the environmental strain caused by the company's voracious appetite for power to run its massive computing centers." The Internet search leader will pour hundreds of millions of dollars into a quest to lower the cost of producing electricity from renewable energy sources such as wind and the sun. [eSolar Inc.](#), Pasadena, CA, is a new company launched by Google. eSolar heliostats are designed to minimize cost, realizing economy-of-scale benefits at much smaller power plant sizes than traditional solar thermal plants.

**Iberdrola S.A.**, 8 Cardenal Gardoqui, 48008 Bilbao, Vizcaya, Spain. Large electric utility. Affiliate Iberdrola Energias Marinas de Cantabria, S.A. contracted with Ocean Powers Technologies Ltd. of U.S. for development of a wave energy plant at Punta del Pescador, Santoña, Spain. Ocean Power Technologies, Inc., 1590 Reed Road, Pennington, NJ 08534. Plans to install a 5 MW "Powerbuoy Smart System" project for the United States Navy in Oahu, Hawaii. Ocean trials have also been conducted off the coast of New Jersey. Another full size demonstration plant is planned for UK waters.

**Kyocera Solar Inc., (US Division)**, 7812 East Acoma Scottsdale, AZ 85260. Tel: 1 480 948 8003. Kyocera Corporation (Solar [Energy Division](#)). Kyocera Corp., Headquarters Building, 6 Takeda Tobadono-cho, Fushimi-ku, Kyoto 612-8501, Japan. Tel: 380 (44) 205 34 50. [Kyocera](#) has announced plans to reinforce production bases in Japan, the U.S., Europe and China, investing a total of about ¥30 billion through FY2010.

**Mitsubishi Heavy Industries Ltd.**, 16-5, Kounan 2-chome, [Minato, Tokyo](#) 108-8125, [Japan](#). One of the world's leading manufacturers of heavy machinery including a number of nuclear power plants and seawater desalination plants. Mitsubishi Heavy Industries, Ltd., Environmental Systems Division, 2-5-1, Marunouchi, Chiyoda-ku, 100 Tokyo, Japan. Telephone: +81-3-3212 31 11. [Mitsubishi Electric Corporation](#), Mitsubishi Denki Building, 2-2-3, Marunouchi, Chiyoda-ku, Tokyo 100-8310, Japan. Tel: 81-3-3218-2111. PV. [Mitsubishi Heavy Industries](#) (Power Systems Division), 5-1 Marunouchi 2-Chome, Chiyoda-ku, Tokyo 100-8315, Japan. Tel: 81 (0)3 3212 9408.

**Nanosys, Inc.**, 2625 Hanover Street, Palo Alto, CA 94304. Makes extremely small inorganic semiconductor structures, like spheres, rods or even tripods. Has a partnership with Matsushita Electric Works to market spray-on solar roof coatings. [Matsushita Battery Industrial Company](#). Photovoltaic Division, 1-1 Matshushita-cho, Moriguchi-shi, 570-8511, Osaka, Japan. Tel: 81 (0)6 6991 1141. [Matsushita Seiko Co Ltd.](#), 4017, Shimonakata, Takaki-cho, Kasugai, Aichi, 486-8522, Japan. Tel: 81 0568 81 1511. Nanosys has also announced a partnership with Intel.

**Pacific Gas & Electric**, 1 Market Spear Tower, Ste. 2400, San Francisco, CA 94105-1126. Phone: 415-267-7000. The company has a diversified energy development program. PG&E is developing the Mojave Solar Park with solar energy firm Solel. The 6,000-acre project will rely on 1.2 million mirrors and 317 miles of vacuum tubing to capture the desert sun's heat. PG&E has also undertaken to develop ocean wave energy projects off the coasts of Mendocino and Humboldt Counties. Further, PG&E is involved in the Geysers geo-thermal development.

**Saline Water Conversion Corp** (SWCC), Prince Mohammed Bin Abdulaziz Road, P.O. Box 88227, Riyadh 11662, Saudi Arabia. A world leader in construction of seawater desalination plants. Today SWCC has two key initiatives – privatization, which will gain momentum over the next few years, as well as far-reaching growth targets, which include the construction of three more plants, each costing around US \$1 billion.

**Sharp Electronics Corp.**, U.S. sales and marketing subsidiary, officially opened its first solar panel manufacturing facility outside of Japan in Memphis. [Sharp Corp.](#), Sharp Photovoltaics Div. 282-1 Hajikami, Shinjo-cho, Kita-Katsuragi-gun, Nara Prefecture 639-2198, Japan. Tel: 81 745 63 3579. [Sharp](#) is the world's largest photovoltaic module and cell manufacturer, with major plants in Japan and in the UK. Sharp Solar produces [solar cells](#) for many applications, from satellites to lighthouses, and industrial applications to residential use. Recently the firm undertook to build a new state-of-the-art LCD panel plant and solar cell plant for the mass production of thin-film solar cells in Sakai City, Osaka prefecture. This project is being developed as a "manufacturing complex for the 21st century."

**Siemens Energy & Automation Inc.** is headquartered in the Atlanta (GA) suburb of Alpharetta. Parent firm is Siemens AG, Munich, Germany. Europe's largest engineering conglomerate with 6 major divisions. Makes and services nuclear power plants, both pressurized water reactors and boiling water reactors. Affiliates include Siemens Energy and Automation, Siemens Power Generation, Erlangen, Germany; Siemens Wind Power, (Bonus) Borupvej 16, 7330 Brande, Denmark. Telephone: +45 99 42 22 22; Voith Siemens Hydro Power Generation GmbH & Co. KG, Alexanderstraße 11, 89522 Heidenheim, Germany. Tel +49 7321 37-6848. Has acquired Wavegen. Firm has undertaken a tidal current plant in the South Korean province of Wando. In U.S., Siemens Westinghouse Power Corporation is headquartered in Orlando.

**Solar Reserve**, 2425 Olympic Blvd., Suite 6040 West, Santa Monica, CA 90404. 310-449-8680. A collaboration between United Technologies Corporation (UTC), a Dow 30 conglomerate, and US Renewables Group, a private equity firm focused exclusively on renewable energy. SolarReserve holds the exclusive worldwide license to build state-of-the-art Concentrated Solar Power (CSP) plants that use equipment manufactured by HS Rocketdyne, a subsidiary of UTC. Rocketdyne, in partnership with the US Department of Energy, has invested \$100 million in the design and manufacture of these components.

**Sony Corp.**, [Minato-ku](#), Tokyo, Japan. One of the world's largest media conglomerates with annual revenue more than \$70 billion. In 2008 announced a fuel-cell system small enough to fit in one hand. The device combines a fuel cell, Li-polymer secondary battery, and control circuit. Sony had previously announced a fullerene-type solid polymer electrolyte membrane and MEA (membrane-electrode assembly). While many companies are looking at server consolidation and virtualization as ways of reducing data center electricity consumption, in the U.S., **Sony Pictures Entertainment** is going green by using the sun, wind, and other reusable energy sources to power its data facilities. SPE is the first customer to sign up for a new reusable energy program that's being offered to clients of 365 Main's facility in Chandler, Ariz., via electrical utility company Salt River Project.

**Suzlon Wind Energy Corp.**, 12626 High Bluff Drive, Suite 370, San Diego, CA 92130-2070. Telephone: 858-847 0574. Suzlon Energy Ltd., World HQ. Amsterdam, Netherlands. +31.20.573.4433. 12,000 employees worldwide. The largest [wind turbine](#) manufacturer in [Asia](#) and one of largest worldwide. Several manufacturing sites in [India](#) including [Pondicherry](#), [Daman](#), [Bhuj](#) and [Gandhidham](#) as well as in [mainland China](#), [Germany](#) and [Belgium](#). Firm has offices in Aarhus, Jutland, Denmark. Suzlon Wind Energy Corporation, Chicago.

**Toshiba America Electronics Components, Inc.**, 19900 McArthur Blvd., Suite 400, Irvine, CA. Tel 949-620-2900 produces direct methanol fuel cells. Toshiba Corp. is a [conglomerate](#) headquartered in [Tokyo](#). Toshiba is among the [top 20 semiconductor sales leaders](#) and is the world's fifth largest [personal computer](#) manufacturer. Toshiba has recently partnered with NRG Energy Inc. to create a new company to pursue new nuclear energy projects. Nuclear Innovation North America LLC will focus on marketing, siting, developing, financing and investing in advanced design nuclear projects in the United States and Canada. Toshiba America Nuclear Energy – Falls Church, VA. is projected to build two 1.35-million-kW advanced boiling-water reactors in the suburbs of Houston. The total cost is estimated at about \$5 billion and the reactors are expected to begin operations as early as 2014.

**Vestas Wind Systems A/S**, Alsvej 21, 8900 Randers, Denmark. Telephone: +45 97 30 00 00. Is a world leader in manufacturing wind energy systems. The company has installed more than 33,500 wind turbines in 63 countries and five continents. Vestas has production facilities in Denmark, Germany, China, India, Italy, UK, Spain, Sweden, Norway and Australia. The company recently opened its first U.S. wind turbine blade manufacturing facility in Windsor, Colo., about 60 miles/100 km north of Denver. The facility is expected to produce blades for as many as 600 turbines annually and employ 650 people. Vestas employs over 13,500 people worldwide.

**Westinghouse Electric Co.**, Pittsburgh, PA, and 3545 Whitehall Park Drive, Charlotte NC. A long-time leader in designing nuclear power plants. The firm has designed about half of the reactors in operation around the world. The company now has contracts for four new reactors in China and six in South Korea. It is now planning a nuclear facility for Progress Energy Florida in Levy County, Fla., that will include two Westinghouse AP1000 nuclear units.

Westinghouse Plasma Corp. is a leader in conversion of urban wastes to electric power. Geoplasma's WTE plant in Florida will be one of the largest plasma gasification facilities in the world, using Westinghouse technology. Located on an existing landfill site, it will process up to 3,000 tons-per-day of waste. Sun Energy plans to build a large WTE facility in New Orleans that will use WPC plasma gasification technology to convert 2,500 tons per day of garbage to electricity.

**Westinghouse Advanced Energy Systems Division (AESD)** is a research and development facility for nonconventional renewable energy systems located at Large, PA, about 13 miles south of Pittsburgh.

## B. Geographic Index to Projects and Companies

### United States

*(composite list)*

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#### **Alabama**

Alabama Electric Cooperative: Andalusia, AL

Alabama Gas Corp. (Alagasco): North Birmingham, AL

Alabama Municipal Electric Authority: Montgomery, AL

Alabama Power Co. Southern Div.: Montgomery, AL

Alabama Power Company: Birmingham, AL

Baldwin County Electric Member Corporation: Summerdale, AL

Bridgeport Utilities: Bridgeport, AL

Calmec ([California Molecular Electronics Corporation](#)). P.O. Box 1273, Huntsville, AL 35807-0273. Molecular electronics.

Central Alabama Electric Cooperative: Prattville, AL

Cherokee Electric Cooperative: Centre, AL

Clarke-Washington Electric Co-op: Jackson, AL

Coosa Valley Electric Cooperative: Talladega, AL

Covington Electric Coop: Andalusia, AL

Cullman Electric Cooperative: Cullman, AL

Cullman Power Board: Cullman, AL

Dixie Electric Cooperative: Union Springs, AL

Joe Wheeler EMC: Trinity, AL

Muscle Shoals Electric Board: Muscle Shoals, AL

Pea River Electric Cooperative: Ozark, AL

Pioneer Electric Co-op Inc.: Greenville, AL

PowerSouth Energy Cooperative: Montgomery, AL

South Alabama Electric Cooperative: Troy, AL

[Southern Nuclear](#), PO Box 470, Ashford, AL 36312. Operates [Farley](#) nuclear power plant.

TVA, Box 2000, Decatur, AL 35602, operates [Browns Ferry](#) nuclear power plant.

Southern Pine Electric Cooperative: Brewton, AL

Tennessee Valley Authority: Huntsville, AL

Tennessee Valley Authority: Muscle Shoals, AL

Tallapoosa River Electric Cooperative: Lafayette, AL

### **Alaska**

Alaska Electric Light & Power Co.: Juneau, AK

Alaska Oil & Gas Assn.: Anchorage, AK

Alaska Public Utilities Commission: Anchorage, AK

Anchorage Alaska Waste: Anchorage, AK

Anchorage Water & Wastewater Utility: Anchorage, AK

Chugach Electric Association Inc: Anchorage, AK

Enstar Natural Gas Co.: Anchorage, AK

Matanuska Electric Association: Palmer, AK

Municipal Light & Power: Anchorage, AK

Municipality of Anchorage: Anchorage, AK

PureCycle. First deployed at Chena Hot Springs Resort near Fairbanks in 2006, the units use relatively low-temperature geothermal resources to vaporize an organic fluid, using that vapor to spin a small generator to produce power.

### **Arizona**

Arizona Elec Power Co-op: Benson, AZ

Arizona Power Service (APS) (Pinnacle West): Phoenix, AZ

[Arizona Public Service Company](#), PO Box 52034; Phoenix, AZ 85072-2034, operates Palos Verde nuclear power plant.

Cox Communications: Phoenix, AZ

[First Solar LLC](#), 4050 E Cotton Center Blvd. Suite 6-69, Phoenix, Arizona 85040, Tel: 1 602 414 9300

Integrated Biomolecule Corp., 2005 E. Innovation Park Dr., Tucson, AZ 85755-1966. *In vitro* diagnostics

MEGACORP/City of Mesa: Mesa, AZ

New Solar Ventures. Arizona firm

Salt River Project: Phoenix, AZ

Sanofi-aventis, Tucson, AZ. French drugmaker Sanofi-aventis is building a new research lab in the same technology park where Ventana is headquartered.

Solar Torx. New Arizona firm.

Southwest Gas Corp: Tucson, AZ

SRP Electric: Tempe, AZ

Stirling Energy Systems Inc., Biltmore Lakes Corporate Center, 2920 E. Camelback Road, Suite 150, Phoenix, Ariz. 85016. Tel: 602 957 1818. E-mail: [ses@stirlingenergy.com](mailto:ses@stirlingenergy.com). Solar.

Tucson Electric Power: Tucson, AZ

Ventana Medical Systems, 1910 Innovation Park Dr., Tucson, AZ 85755. With a large and growing worldwide install base, Ventana's advanced technologies have introduced consistent and reproducible quality staining results to laboratories throughout the world.

### **Arkansas**

Arkansas Electric Cooperative: Little Rock, AR

Arkansas Oklahoma Gas Co.: Fort Smith, AR

Arkansas Valley Elec Coop: Ozark, AR

Chesapeake Energy, Arkansas: Little Rock, AR

City of Siloam Springs Light & Water: Siloam Springs, AR

Electric Co-ops of Arkansas: Little Rock, AR

[Entergy Nuclear](#), Russellville, AK. 1448 SR 333, operates [Arkansas Nuclear One \(ANO\) 1 and 2](#) nuclear power plants.

Entergy's Teamwork Arkansas: Little Rock, AR

Koontz Electric Company Inc: Morrilton, AR

[Nanomaterials and Nanofabrication Laboratories](#), PO Box 2168, Fayetteville, AR 72702-2168. Providing Colloidal Nanocrystals and Nanocrystal-Based Products.

North Arkansas Electric Cooperative Inc.: Salem, AR

Reliant Energy-ARKLA: Little Rock, AR

SEECO Inc. (Southwestern Energy Co.): Fayetteville, AR

Southwest Arkansas Water District: Texarkana, AR

### **California**

Affymetrix Inc., Santa Clara, CA. [Genome-Wide Human SNP Array 6.0](#). A leading genetic analysis company.

[AIC Labs](#). 5705 Hollis St., Emeryville, CA 94608-2513. Tel: 510-956-1467. Fuel cell electrochemical generators

Akeena Solar, Los Gatos, Calif., a solar panel installation firm with 50 employees.

Alameda Power & Telecom: Alameda, CA

Amgen Inc., One Amgen Center Drive, Thousand Oaks, CA. A leading human therapeutics company in the biotechnology industry.

Anaheim (City of) – Southern CA: Anaheim, CA

Anaheim Public Utilities: Anaheim, CA

Applied Materials, 3050 Bowers Avenue, P.O. Box 58039, Santa Clara, CA 95054-3299. Tel: 408-727-5555. The firm employs approximately 14,000 people throughout [Canada](#), [China](#), [Europe](#), [Israel](#), [India](#), [Malaysia Singapore](#), [Japan](#), South [Korea](#), [Taiwan](#), and the [United States](#). They produce: chips for all electronic gear, flat panel displays for computers and television, glass coatings for homes and buildings, web (flexible substrate) coaters for industry, and PV solar cells and modules using both thin film and crystalline photovoltaic technology.

Applied Solar Inc. aka Open Energy, 514 Via de la Valle, Suite 200, Solana Beach, CA 92075, Tel: 858.794.8800. Bought Toronto-based Solar Roofing Systems and its patented BIPV roofing membranes, SolarSave. Also, acquired Connect Renewable Energy Inc. – maker of BIPV roofing tiles. Has \$20 million in financing.

Ausra Solar Heat and Power, Palo Alto, CA. The Solar Two project in California used molten salt storage to help adjust for cloudy days. Molten salt storage is now being used in [Nevada's Solar One](#) power plants. Using such a system, start-up Ausra says its plants will be able to store heat for up to 20 hours, allowing it to sell electricity to the grid whenever demand is greatest.

Bechtel, San Francisco, CA. A leader in construction and operation of nuclear power plants. A group that includes Bechtel and several utilities has proposed to build a desalting plant near San Diego to produce 100 million gallons (378,541,178 l) per day of potable water.

Beckman Instruments Inc., 2500 Harbor Blvd., Fullerton, CA 92634.

Bloom Energy, Silicon Valley venture heavyweights Kleiner Perkins Caufield & Byers and New Enterprise Associates are backing Bloom Energy, a solid-oxide fuel cell company that has raised \$102 million.

Bonneville Power Administration, Portland, OR, has expressed interest in geothermal power production from the area. Near Honey Lake, Amedee geothermal plant has contributed electricity to the California grid since 1988. Surprise Valley also has well-documented potential for geothermal power development, on the order of several tens of MW.

Bourne Energy: Box 2761, Malibu, CA 90256. Starting to develop "OceanStar, TidalStar and RiverStar" ocean energy recovery units.

BrightSource Energy Inc., 1999 Harrison Street, Suite 2150, Oakland, CA 94612. Tel: 510-550-8161 x108. E-mail: [info@brightsourceenergy.com](mailto:info@brightsourceenergy.com)

Caithness Energy. The Coso Geothermal Field is located within the China Lake U.S. Naval Air Weapons Station near Ridgecrest.

Power plants in this field are operated by Caithness Energy, of Reno, Nev. More than 100 wells have been drilled throughout the field, with production depths from 2,000 to 12,000 feet (610 to 3,658 m), and temperatures from 392 to 662 F (200 to 350 C).

CalEnergy Operating Corp., a subsidiary of MidAmerican Energy Holdings, Omaha, Neb., owns all of the power plants in the Salton Sea Geothermal Field, which contains the region's hottest and most saline brines. CalEnergy currently produces over 340 MW from their geothermal power plant Units 1 through 5. CalEnergy plans to increase production by 185 MW with construction of Unit 6, which will be the largest geothermal power plant in the world. CalEnergy has also built a \$400-million facility to extract up to 27,216 tons (30,000 metric tonnes) of zinc per year from spent geothermal brines at its Salton Sea geothermal power plants.

Calpine Corp. The Geysers Geothermal Field has been the world's largest producer of geothermal electrical power since the 1970s. It reached a peak of more than 1,600 MW in 1987. Today, The Geysers' 21 power plants are operated by Calpine Corp. (19 facilities) and the Northern California Power Agency (2 facilities). Calpine has proposed to build a 49.5-MW power plant in the northwest section of the Glass Mountain Known Geothermal Resource Area (KGRA). Calpine also plans to build a second 49.5-MW power plant, the Telephone Flat Project, in the southeast section of the Glass Mountain KGRA, east of Medicine Lake.

Capco Energy. Has developed three biomass energy plants near Fresno in central California. They were set up to burn a number of types of agricultural and wood wastes, including almond prunings, cotton stalks, corn stalks, vineyard prunings, straw, and forest residue.

Carbide Burrs4less, 1623 S. Minnie Street, Santa Ana, CA 92707. Tel: 800-854-0449.

Ceres Inc., 1535 Rancho Conejo Blvd., Thousand Oaks, CA 91320. The National Corn Growers Association announced that three biotech firms will begin sharing their maize or corn genome sequence data. Included are Ceres Inc., Monsanto, and DuPont subsidiary, Pioneer Hi-Bred International Inc.

Chevron California Renewable Energy Inc: subsidiary of Chevron Corporation. Researching opportunities in ocean energy. Chevron Geothermal Energy has been developing big projects in Indonesia and the Philippines – enough power for seven million homes.

Clipper Windpower Inc.: 6305 Carpinteria Avenue, Suite 300, Carpinteria, CA 93013. Tel: + 1 805 690 3275.

Colmac Energy: Operates a 49-MW wood-fired power plant in Mecca, Calif., southeast of Palm Springs. It is one of three biomass plants in Southern California handling wastes from citrus and date orchards in the Los Angeles basin. Most of the wastes would otherwise have to be land-filled.

Earth Wind and Power: 208 Camino Manzanas, Thousand Oaks, CA. Tel: 818-317-2644. Fax: 805-373-0064

Echelon Corporation: San Jose, CA

Energy Innovations, yet another start-up, has a staff of about 40 people and venture capital investments of \$29 million. The company's core competencies are in engineering, solar power and software development. The devices it builds require a great deal of integration of all the parts and software to run them.

Encapsulation Technologies. 3150 E. Pico Boulevard, Los Angeles CA 90023. Has developed a process that eliminates airborne radioactivity and fixes contamination remotely without the need for people or equipment to enter contaminated areas.

Enron Wind Corp. Based in Tehachapi, CA, it is one of the world's largest wind-turbine operators. Acquired by GE.

[ESolar](#) Inc., a Pasadena, CA-based company launched by Google. ESolar heliostats are designed to minimize cost, realizing economy-of-scale benefits at much smaller power plant sizes than traditional solar thermal plants.

Gas Company: Monterey Park, CA

General Atomics, P.O. Box 85608, San Diego, CA 92186-5608. Radiation monitoring systems.

General Electric Nuclear, 171 Curtner Avenue, San Jose, CA 95125, operates General Electric nuclear power plant.

Geron Corporation, 230 Constitution Drive, Menlo Park, CA 94025. Diagnostic products based on common biological mechanisms underlying cancer.

GreenVolts Inc., 50 First Street, #507, San Francisco, CA 94105. [info@greenvolts.com](mailto:info@greenvolts.com), 415 963-4030. A solar start-up with \$1.5 million venture capital.

HelioDynamics Inc., 23 Dos Posos, Orinda, CA 94563. Tel: 925 254 5250. Offers solar concentrators designed to be mounted on roofs, on parking lots and in open-field sites.

[Hewlett Packard and HP Labs](#), Palo Alto, CA. Developing computers using nanowires and electrically switchable molecules. HP has built a working 64-bit memory chip in a space one-micron square, so small that 1,000 could fit across a human hair.

IBM [Almaden Research Center](#): San Jose, CA. Microscopes that allow visualization as well as manipulation of materials on the scale of single atoms. IBM developed the first mass-produced commercial nanotechnology product, a disk drive head first marketed in 1997, which yielded a huge increase in disk drive data density.

Incyte Genomics Inc., 3160 Porter Drive, Palo Alto, CA 94304. Its original product, LifeSeq, is a database that provides a complete and comprehensive view of the human genome.

Intel Corp., Santa Clara, CA. Has been manufacturing chips with silicon nanotechnology since 2000. The latest Pentium 4 processors are made up of millions of tiny transistors with a width of only 50nm (by comparison, a flu virus measures about 100nm).

Jadoo Power, a Mohr Davidow-funded company based in Folsom, Calif., is producing small hydrogen fuel cells for the military and private users. It plans to sell a rechargeable hydrogen fuel cell that can power homes.

Los Angeles Dept. of Water & Power: Los Angeles, CA

[Maxim Pharmaceuticals](#) Inc. (EpiCept Corporation), 3099 Science Park Rd., Ste 150, San Diego, CA 92121. Advanced therapies for cancer, infectious diseases.

Maxwell Technologies Inc., 9244 Balboa Avenue, San Diego CA 92123. Tel: +1 858 503 3300. PowerCache ultracapacitors claim up to 100 times the energy of conventional capacitors and ten times the power of ordinary batteries.

Metro Water District Southern California: Los Angeles, CA

Nanochip Inc., 48041 Fremont Blvd., Fremont, CA 94538. Developing mass storage devices, based on molecular scale technology.

Nanogen Inc., San Diego, CA. Developer of molecular and rapid *in vitro* diagnostic products.

[Nanologic Inc.](#), 4295 Walnut Blvd., Walnut Creek, CA 94596. Integration of nanotechnology into computers.

[Nanometrics Inc.](#), 1550 Buckeye Drive, Milpitas, CA 95035. Develops process control metrology systems used in the manufacture of silicon and compound semiconductor substrates.

Nanomix Inc., Emeryville, CA, has developed a sensor based on carbon nanotubes that can detect chemicals down to a single molecule.

[Nanosolar](#), Palo Alto, CA. The company that invented the cheap, flexible "[print out](#)" type of solar cell, will be building a California

plant with a proposed output of about 430 MW a year, utilizing venture capital of \$100 million.

Nanosys Inc., 2625 Hanover Street, Palo Alto, CA 94304. Makes extremely small inorganic semiconductor structures, like spheres, rods or even tripods. Has a partnership with Matsushita Electric Works to market solar roofing tiles embedded with the company's nanorods. Recently, they announced a partnership with Intel. Nanosys, Palo Alto, CA, is working with Matsushita on sprayable solar coatings for roofs.

Nano-Tex Corp., HQ, Emeryville, CA, with operations in Belgium; China; England; India; Italy; South Korea; and Turkey. Develops and markets nanotechnology-based textile treatments.

Navigenics. One Lagoon Drive, Suite 450, Redwood Shores, CA 94065. Offers clients a \$2,500 scan of their DNA for signs that they might be at higher risk for diseases such as cancer, diabetes and other ailments.

Nordic Windpower, 125 University Ave., Berkeley, CA 94710. Tel: +1 510 665 9463

Oak Creek Energy Systems Inc., Mojave, CA

Ormat Nevada Inc., Sparks, Nev., has acquired geothermal projects at East Mesa. These plants are currently producing power for sale to Southern California Edison. Major activity is found in the Imperial Valley Geothermal Area near the Salton Sea.

Pacific Gas & Electric: 1 Market Spear Tower, Ste. 2400, San Francisco, CA 94105-1126. Tel: 415-267-7000. Has signed contract for wave power installation off Humboldt County, CA. PG&E is operating The Geysers, the country's first large-scale, geothermal electricity-generating plant. The first turbine, producing 11 MW of net power, has run successfully for more than 30 years. [PG&E](#), PO Box 56; Avila Beach, CA 93424, operates Diablo Canyon nuclear power plant.

[Pacific Nanotechnology](#), 3350 Scott Blvd., #29, Santa Clara, CA 95054. Facilitates advances in nanotechnology and nanoresearch.

Pacific SolarTech. A Silicon Valley startup.

PacWind Inc.: 23930 Madison Street, Torrance, CA 90505. Tel: 310-375-9952 x227

Pentadyne Power Corp., 20750 Lassen St., Chatsworth, CA 91311. Tel: 818-350-0370. Flywheel energy storage systems. E-mail: [davidtownley@pentadyne.com](mailto:davidtownley@pentadyne.com).

PolyFuel. 1245 Terra Bella Avenue, Mountain View, CA 94043. Tel: 650.429.4700. E-mail: [info@polyfuel.com](mailto:info@polyfuel.com). Fuel cells

Powerzinc Electric Inc., 17800 E. Castleton St., Suite 435, City of Industry, CA 91748. Tel: (626) 810-3068. Zinc-air fuel cell and zinc-air battery

Prism Solar Technologies, another start-up, will produce a holographic device that separates the most useful part of the light wave for electricity generation using patents licensed from the Illinois Institute of Technology. Starting with venture capital of a little over \$5 million, the small firm hopes to reduce the silicon needed in solar energy systems by as much as 85 percent.

Redding Electric Utility: Redding, CA

Quantum Dot Corp., 26118 Research Pl., Hayward, CA 94545. Manufactures fluorescent particles of different sizes that shine in different colors, from ultraviolet to infrared. These products are already marketed to more than 1,000 biology research customers worldwide.

Riverside (City of) Public Utilities: Riverside, CA

Sacramento Municipal Utility District (SMUD): Sacramento, CA

San Diego Gas & Electric: San Diego, CA

SARA Inc., 6300 Gateway Drive, Cypress, CA 90630-4844. Tel: (714) 224-4410. Is promoting an ocean wave-powered electric (OWEC) generator.

Sempra Energy: San Diego, CA

Shasta Energy Group, PO Box 560, Mt. Shasta, CA 96067. Tel: 530.926.3363; Fax: 530.926.4211. Email [april@shastaenergygroup.org](mailto:april@shastaenergygroup.org). Demonstration project of biomass gasification technology in Siskiyou County. Trial run of a Biomax 25 device. Shasta Energy Company: Runs a wood-fired power plant at Anderson, between Sacramento and Redding in Northern California. The plant processes some 750,000 tons (680,396 metric tons) per year of mill wastes and forest debris from Shasta County and other areas.

Shasta Lake Electric Utility: CA

Signet Solar Inc., 525 Middlefield Road, Suite 150, Menlo Park, CA 94025, [Tel: 1.650.289.0399](tel:1.650.289.0399); Fax: 1.650.289.0562. Email: [info@signetsolar.com](mailto:info@signetsolar.com). Acquired PowerLight, said to be the nation's biggest solar panel installer. Recently signed a contract to buy turnkey production lines from Applied Materials.

Solaicx, a start-up, is planning its first silicon manufacturing facility. The plant, which will have an initial run-rate of 48 MW, will create about 100 new jobs in its first year. Plans call for expansion to 142 MW of solar ingots and wafers per year.

Solaria. Another Silicon Valley startup with \$22 million in venture capital.

Solar Reserve, 2425 Olympic Blvd., Suite 6040 West, Santa Monica, CA 90404. 310-449-8680. A collaboration between United Technologies Corporation (UTC), a Dow 30 conglomerate, and US Renewables Group, a private equity firm focused exclusively on renewable energy. SolarReserve holds the exclusive worldwide license to build state-of-the-art Concentrated Solar Power (CSP) plants that use equipment manufactured by HS Rocketdyne, a subsidiary of UTC. Rocketdyne, in partnership with the U.S. Department of Energy, has invested \$100 million in the design and manufacture of these components,

Solar Reserve. Hamilton Sundstrand, a division of United Technologies, has announced the creation of a new company named Solar Reserve that will produce heat-resistant pumps and other equipment for handling and storing salt at temperatures over 1,000F (538C).

Solar Semiconductor recently purchased a Solar PV Module manufacturing line from P. Energy S.A.S. of Italy. 1292 Kifer Road, Suite 808, Sunnyvale, CA 94086, Tel: 1 408 329 5353; Fax: 1 408 329 5354.

[Solec International Inc.](#) (part of Sanyo), 970 East 236th Street, Carson, CA 90745. E-mail: [solec@solecintl.com](mailto:solec@solecintl.com)

[SolFocus Inc.](#) is a new venture coming out of Palo Alto Research Center (PARC). The combine has developed CPV systems that will deliver lower cost solar electric power and expects to compete with conventional electricity sources. The company has venture funding of \$32 million.

[Sopogy Inc.](#) Produces a MicroCSP collector that produces 500 watts, roughly what a house consumes. HQ in Hawaii, support office in California.

[Southern California Edison](#), PO Box 128; San Clemente, CA 92674, operates [San Onofre](#) (SONGS) 2 and 3 nuclear power plants. Southern California Edison purchases output from the Casa Diablo Geothermal Area plants on the eastern front of the Sierra Nevada Range – enough power for approximately 40,000 homes.

Southern California Gas Co: Los Angeles, CA

Spectrolab, 12500 Gladstone Ave., Sylmar, CA 91342. A Boeing subsidiary. Products related to CarouSol systems that include 176 units, each containing a mirror that focuses sunlight onto a one-centimeter-square solar cell. The steel units rotate around a circular track and tilt vertically, allowing them to track the sun all day.

[SunPower Corp.](#), 3939 N. 1st St., San Jose, CA 95134. A spinoff of chipmaker Cypress Semiconductor. For 2007, the company had revenues of \$775 million, more than three times that of 2006. Revenues were estimated at \$1.2 billion for 2008 and at a growth rate of 40 to 50 percent thereafter.

Superprotonic. 530 S. Lake Ave. #312, Pasadena, CA 91101. Backed by San Francisco-based Nth Power, is commercializing solid-acid fuel cells.

Suzlon Wind Energy Corporation, 12626 High Bluff Drive, Suite 370, San Diego, CA 92130-2070. Tel: 858-847 0574. Manufacturing facilities in India, the United States, and China. 12,000 employees worldwide.

Technology, 2221 Cape Cod Way, Santa Ana, CA 92703. Producer of high-quality, highly energetic ultra-pure aluminum powder at the nanoscale.

Toshiba America Electronics Components Inc., 19900 McArthur Blvd., Suite 400, Irvine, CA. Tel 949-620-2900. Direct methanol fuel cells.

Tracy Biomass, east of Oakland, handles wood wastes from central California sites, serving a million acres (404,686 hectares) of orchard land and the major landfills for the San Francisco Bay area.

Trojan Battery Company, 12380 Clark Street, Santa Fe Springs, CA 90670. Tel: 800-423-6569. New plant at Sandersville, GA.

23andMe. Google-backed startup 23andMe, which offers a \$999 DNA scan, also said it is not violating state regulations and would continue to do business in California.

URS Corporation: San Francisco, CA

Union Pacific System: Oakland, CA

Vycon. 23695 Via Del Rio, Yorba Linda, CA 92887. Tel: 1-714-386-3800. E-mail: [sales@vyconenergy.com](mailto:sales@vyconenergy.com). Flywheel energy storage systems

## **Colorado**

Aquilla Energy: Pueblo, CO

Ascent Solar. Littleton, CO, developer of thin-film photovoltaic modules.

[AVA Solar Inc.](#), 4557 Denrose Court, Unit B, Fort Collins, CO 80524. Has announced plans for a new PV panel factory, expected to employ up to 500. It will utilize technology developed by mechanical engineering Professor W.S. Sampath at Colorado State University to produce panels that promise to reduce the cost of generating solar electricity to less than \$1 per watt.

Ball Aerospace & Technologies. 1600 Commerce St., Boulder, CO 80301. Tel: (303) 939-4000. Fuel cell systems.

City of Lamar Utility Board, Light & Power: Lamar, CO

Colorado Public Utilities Commission: Denver, CO

Cotter Corp., 12596 West Bayaud Ave., Suite 350, [Lakewood, CO 80228](#). Operates uranium mill

Electric Utility Consultants Inc. (EUCI): Greenwood Village, CO

Excel Energy: Denver, CO

Greeley Gas Company: Greeley, CO

KC Electric: Hugo, CO

Morgan Co. Rural Elec Assn: Fort Morgan, CO

Mountain View Electric Assn: Falcon, CO

Mountain View Electric Assn: Limon, CO

[Nanopierce](#) Technologies Inc., 370 17th Street, Suite 3640, Denver, CO 80202. Nanoparticle electrical connections.

Nano Products Corp. 14330 Long Peaks Court, Longmont, CO 80504. Nanomaterials.

Peoples Natural Gas: Colorado Springs, CO

Poudre Valley REA: Fort Collins, CO

PrimeStar Solar Inc., HQ, 13100 W. 43rd Drive, Golden, CO 80403-7232. Tel: 303-278-3180.

San Luis Valley Rural Elec Co-op: Monte Vista, CO

Tri-State Generation & Transmission Assn: Westminster, CO

US West: Englewood, CO

Vestas Wind Systems, a Denmark-based firm that is the world's leading manufacturer of wind turbines, has opened a 400,000-sq.-ft. plant at Windsor, Colo., on the plains north of Denver. (Last year Vestas President Ditlev Engel was named to the World Development Hall of Fame in recognition of his leadership in the field.)

Westplains Energy: Pueblo, CO

Xcel Energy: Arvada, CO

Yampa Valley Elec Assn: Steamboat Springs, CO

### **Connecticut**

ABB Inc.: Norwalk, CT

Connecticut Light and Power Co.: Hartford, CT

Connecticut Valley Electric Inc.: East Hartford, CT

CuraGen Corporation, 322 East Main Street, Branford, CT 06405. Protein, antibody, and small molecule therapeutics.

Electro Energy Inc. 30 Shelter Rock Road, Danbury, CT 06810. Tel: 203-797-2699. [www.electroenergyinc.com](http://www.electroenergyinc.com). Bipolar cell and battery designs utilizing NiMH chemistry, as well as expanding development to include Li-ion chemistries. New plant, Alachua, FL

FuelCell Energy Inc. 3 Great Pasture Road, Danbury, CT 06813. Tel: 203-825-6000. Fuel cells, fuel cell power plants. Recently announced a \$10-million expansion of its Torrington plant

Groton Utilities: Groton, CT

International Fuel Cells. 195 Governors Highway, P.O. Box 739, South Windsor, CT 06074. Tel: 860-727-2200. Fuel cell batteries, fuel cell power plants

Northeast Utilities: Hartford, CT

Preferred Utilities Manufacturing Corp., 31-35 South St., Danbury, CT 06810. Manufacturer of equipment for nuclear power plant refueling.

Proton Energy Systems Inc. 10 Technology Drive, Wallingford, CT 06492. Tel: 203.678.2000. Fuel cell systems, hydrogen generators

Southern Connecticut Gas Co.: Bridgeport, CT

The United Illuminating Co.: New Haven, CT

### **Delaware**

[Amer Industrial Technologies Inc.](#), 100 Amer Rd. Bldg., 200, Wilmington, DE 19809. Nuclear heat exchangers, heavy walled vessels, tanks, and filters.

Chesapeake Utilities Corp.: Dover, DE

Delaware Technical & Community College, Owens Campus—Georgetown, DE 19947. "Delbuoy" wave powered desalination.

Delmarva Power: Newark, DE

GE Energy (Solar Division). 231 Lake Drive, Newark, Delaware, Tel: 1 302 451 7500.

### **District of Columbia**

Edison Electric Institute: Washington, DC

Enercorp LLC: 1101 Pennsylvania Avenue, Sixth Floor, Washington DC 20004. Tel: 202 756 7739

Inter-American Investment Corporation: 1300 New York Avenue NW, Washington DC 20577. Has made equity investment in C to C Holdings Ltd, a company that will develop and deploy a series of Submersible Power Generators (SPGs) to generate electricity utilizing the flow of ocean and/or tidal currents. The electricity generated is transmitted to shore via cable in Guatemala.

PEPCO (Potomac Electric Power Company): Washington, DC

U.S. Department of Energy: Washington, DC

Washington Gas Light Co.: Washington, DC

### **Florida**

[Argonide](#), 291 Power Court Sanford, FL 32771. Manufacturers of electro-exploded nanosize powders.

Cetech America Inc., P.O. Box 522050, Longwood, FL 32752. Tel: 407.322.5199. Fuel cell systems, hydro energy systems

Choctawhatchee Elec Coop Inc: DeFuniak Springs, FL

Clay Electric Co-op Inc.: Keystone Heights, FL

Dais-Analytic Corporation. 11552 Prosperous Dr., Odessa, FL 33556. Tel: 727-375-8484. Polymer membrane-based, fixed-plate enthalpy exchangers; membrane energy recovery ventilators; proton exchange membranes; ionomer membranes

Energy Partners. 1501 Northpoint Parkway, Suite 102, West Palm Beach, FL 33407. Tel: (407) 688-0500. Hydrogen fuel cell systems

Florida Keys Electric Cooperative Inc.: Tavernier, FL

Florida Municipal Power Agency: Orlando, FL

Florida Power & Light Energy: Juno Beach, FL

- FPL Energy. Subsidiary of Florida Power and Light. P.O. Box 14000, Juno Beach, FL 33408-0420. 561-691-7171. A leading power generator utilizing clean fuels such as natural gas, wind, solar, hydroelectric and nuclear. It is a subsidiary of FPL Group, one of the nation's largest providers of electricity-related services with annual revenues of more than \$10 billion. FPL Group's principal subsidiary is Florida Power & Light Company, one of the nation's largest electric utilities, which serves more than 4.3 million customer accounts in Florida. Through its subsidiaries, currently operates 47 wind farms throughout the United States, with a gross capacity of 4,002 MW – enough capacity to provide electricity for nearly one million average U.S. homes. FPL Energy is said to be the largest owner and operator of wind turbines in the world.
- [FPL](#), PO Box 128; Ft. Pierce, FL 34954-0128, operates [St Lucie](#) nuclear power plant.
- [FPL](#), PO Box 4332; Princeton, FL, 33032, operates Turkey Point nuclear power plant. FPL Energy has 88 percent ownership of the Seabrook Station in New Hampshire; a 70 percent interest in the Duane Arnold Energy Center in Iowa; and 100 percent ownership of Point Beach Nuclear Plant in Wisconsin.

Florida Power & Light: Palatka, FL

Florida Power Corp: Altamonte Springs, FL

Fort Pierce Utilities Authority: Fort Pierce, FL

Gainesville Regional Utility: Gainesville, FL

Gulf Coast Electric Coop Inc.: Southport, FL

Gulf Coast Electric Coop Inc.: Wewahitchka, FL

Gulf Power Company - Econ. Dev. Dept.: Pensacola, FL

JEA Economic Development: Jacksonville, FL

Kissimmee Utility Authority: Kissimmee, FL

Orlando Utilities Comsn: Orlando, FL

Peace River Electric Cooperative Inc.: Wauchula, FL

[Progress Energy](#), 15760 West Power Line Street; Crystal River, FL 34428-6708, operates [Crystal River](#) Nuclear power plant.

Progress Energy: Clearwater, FL

Progress Energy: St. Petersburg, FL

Ridge Generating Station. An independent power-producing unit between Auburndale and Lakeland, Fla., that burns waste wood, waste tires, and landfill gas. Power is sold to Florida Power Corporation

Seminole Electric Cooperative Inc.: Tampa, FL

[Sollicore](#) Inc., 2700 Interstate Dr., Lakeland, FL 33805. Tel: (863) 904-1482. High-energy lithium polymer batteries, known as Flexion, that incorporate the company's patented non-combustible, non-toxic, solid-state electrolyte (SSE) technology.

Southeast Renewable Fuels: Aaron Pepper, CEO . [Plans to produce ethanol from South Florida sorghum](#). If he has his way, ethanol will soon come from the shores of Lake Okeechobee. His Fort Lauderdale company seeks to build three factories by the lake to produce the biofuel from sweet sorghum.

[SRI International](#)/SRI Inc.: SRI St. Petersburg, Marine Technology Program, 140 Seventh Avenue South, COT 100, St. Petersburg, FL 33701-5016. Testing a buoy with "artificial muscle" technology in the waters off St. Petersburg, FL.

Sumter Electric Cooperative Inc.: Sumterville, FL

Suwannee Valley Electric Coop: Live Oak, FL

TECO Peoples Gas: Tampa, FL

Talquin Electric: Quincy, FL

Tampa Electric Company: Tampa, FL

U.S. Generating Co. and Flo-Energy Corp. operate the Okeelanta Cogeneration Plant next to the Flo-Sun Inc. Okeelanta Sugar Mill, near South Bay in Palm Beach County, Fla. It is the largest bagasse/biomass cogeneration plant in the United States. Excess electricity is sold to FPL.

Verenium , a Massachusetts firm, , has announced plans to build a \$250 million ethanol plant in Highlands County Northwest of Lake Okeechobee. Using a new technology developed by the University of Florida, it will be one the nation's first cellulosic processing facilities.

West Florida Electric: Bonifay, FL

Withlacoochee River Electric Cooperative Inc.: Dade City, FL

## **Georgia**

AGL Resources Inc.: Atlanta, GA

Altamaha EMC: Swainsboro, GA

Atlanta Gas Light: Atlanta, GA

Carroll Electric Membership Corp: Carrollton, GA

Central Georgia Electric Membership Corporation: Jackson, GA

Cobb Electric Membership Corp.: Marietta, GA

Colquitt EMC: Moultrie, GA

Crisp County Power Commission: Cordele, GA

Dalton Utilities: Dalton, GA

DayStar Technologies Inc., 3550 Lawrenceville-Suwanee Rd., #107, Suwanee, GA 30024. Tel: 770-614-5400. Has signed a letter of intent with Juwi Solar GmbH, one of the leading companies in the renewable energy sector in Europe. The LOI identifies Juwi Solar GmbH as a sales partner for DayStar in commercializing its CIGS glass modules.

[Energy & Process Corp.](#), P. O. Box 125, Tucker, GA 30085-0125. Tel: (800) 241-9460; Fax: (770) 938-8903. Supplier of nuclear pipe, valves, fittings and structural steel products for the nuclear industry. [www.energyandprocess.com](http://www.energyandprocess.com)

Exide Technologies Inc. 13000 Deerfield Pkwy., Bldg. 200, Alpharetta, GA 30004. Part of Exide battery corp. New plants – Bristol, TN, and Haldia, India.

Flint Energies: Warner Robins, GA

GE Energy, a subsidiary of General Electric, is based at 4200 Wildwood Parkway, Atlanta, GA 30339. General Electric's Technology Lending unit has extended a loan of \$2.6 million to Ocean Power Delivery for its Portugal wave energy farm. Also, GE will take an equity position as part of OPD's \$22.5 million program.

Georgia EMC: Atlanta, GA

Georgia Natural Gas: Atlanta, GA

Georgia Natural Gas: Savannah, GA

Georgia Power: Atlanta, GA

Greystone Power Corporation: Douglasville, GA

Habersham EMC: Clarkesville, GA

Hart Electric Membership Corporation: Hartwell, GA

Heard County Water Auth: Franklin, GA

Jackson EMC: Jefferson, GA

Jefferson Energy Cooperative: Wrens, GA

[Lightyear Technologies Inc.](#), 85 Mill St., Bldg. C100, Roswell, GA. Developer of nanotechnology materials.

MEAG Power: Atlanta, GA

MedShape Solutions Inc., 575 14th St. NW, Atlanta, GA 30318-5455. A Georgia Institute of Technology spin-off is looking into ways to capitalize on its patented polymers technology. A grant from NIH has moved the shoulder device from an idea to a working prototype.

Marietta Power: Marietta, GA

Newnan Utilities: Newnan, GA

Oconee EMC: Dudley, GA

Oglethorpe Power Corp.: 2100 East Exchange Place, Tucker, GA 30084. (770) 270-7600. E-mail: [ContactOPC@opc.com](mailto:ContactOPC@opc.com). [www.opc.com](http://www.opc.com). The Georgia-based utility will invest up to \$1 billion building two power plants fueled by biomass. The two 100-MW plants, powered by woody biomass from South Georgia's vast forests, are due to begin production in 2014 and 2015. The company also may decide to build a third facility, which also would go online in seven years.

Savannah Elec & Power: Savannah, GA

Sawnee EMC: Cumming, GA

[Southern Nuclear](#), Highway US1, Box 439, Baxley, GA 31513 operates the [Hatch](#) nuclear power plant.

[Southern Nuclear](#), PO Box 1600; Waynesboro, GA 30830 operates the Vogtle nuclear power plant.

SouthStar Energy Services - Alabama: Savannah, GA

SouthStar Energy Services - Florida: Atlanta, GA

SouthStar Energy Services - Mississippi: Atlanta, GA

Tri-County EMC: Gray, GA

Virginia Natural Gas: Atlanta, GA

Walton EMC: Monroe, GA

## **Hawaii**

[Aquasearch](#). (Merged with Mera Pharmaceuticals). Specializes in the development of natural microalgae products.

Hawaiian Electric Co. Inc.: Honolulu, HI

Hawaiian Electric Industries Inc.: Honolulu, HI

Mera Pharmaceuticals Inc., 73-4460 Queen Ka'ahumanu Highway, Suite 110, Kailua-Kona, Hawaii 96740. (Now includes Aquasearch, the Hawaiian company that develops nutraceutical products from aquatic plants.)

Puna Geothermal Venture (PGV) operating on the big island of Hawaii. It delivers an average of 25-35 MW of firm energy on a continuous basis, supplying approximately 20 percent of the total electricity needs of the Big Island.

Sopogy Inc., 2660 Waiwai Loop, Honolulu, HI 96819. Tel: [\(866\) 767-6491](tel:(866)767-6491), Fax: (808) 356-0565

U.S. Geothermal Inc.: In December 2007, U.S. Geothermal finished construction of the first geothermal power plant in Idaho at Raft River and in January 2008 began producing 10 MW – enough electricity to power approximately 2,900 homes. The firm's schedule calls for increasing to 36 MW within four years, and potentially 90 MW or better in the future.

## **Idaho**

Idaho Falls Power: Idaho Falls, ID

Idaho Power Company: Boise, ID

Kootenai Elec Coop: Hayden, ID

Nordic Windpower Ltd., a company that began in Sweden, has selected Pocatello, Idaho, as the site for its new manufacturing plant that will employ 160 people.

Salmon River Elec Coop: Challis, ID

U.S. Geothermal Inc. Built the first geothermal power plant in Idaho at Raft River and in January 2008 began producing 10 MW – enough electricity to power approximately 2,900 homes. The firm's schedule calls for increasing to 36 MW within four years, and potentially 90 MW or better in the future.

### **Illinois**

Abbot Laboratories. Abbott Park, [North Chicago, IL](#). A [pharmaceuticals](#) company with 68,000 employees in 130 countries.

Ameren Services: Decatur, IL

AmerenIP, Ameren CILCO, Ameren CIPS: Hillsboro, IL

American Pharmaceutical Partners Inc. 1501 East Woodfield Drive, Suite 300 East, Schaumburg, IL 60173. Instruments and software for diagnosis or treatment of disease.

Central Illinois Light Co: Peoria, IL

ComEd Economic Dev. Dept.: Chicago, IL

Darwin Realty & Dev Corp: Elmhurst, IL

Eastern Illini Elec Coop: Paxton, IL

Exelon Corp.

Egyptian Electric Cooperative Assn.: Murphysboro, IL

EnerStar Power: Paris, IL

Exelon Corporation: 10 South Dearborn Street, 48th Floor, P.O. Box 805398, Chicago, IL 60680-5398. Operates seven nuclear power plants in Illinois: [Braidwood](#), RR1, Box 84; Braceville, IL 60407; [Byron](#), 4450 North German Church Road; Byron, IL 61010; Clinton, PO Box 678; Clinton, IL 61727; Dresden, 6500 North Dresden Road; Morris, IL 60450; Exelon, Suite 400, 1400 Opus Place; Downers Grove, IL 60515; [LaSalle](#), 2601 North 21st Road; Marseilles, IL 61341; Quad Cities, 22710 206th Avenue North; Cordova, IL 61242.

Farmer Mutual Elec Co.: Geneseo, IL

International Components Corp. 420 N. May Street, Chicago, IL 60622. Tel: (312) 829-2525. Consumer electronics batteries, battery chargers, battery connectors, portable power systems

[MediChem Life Sciences](#) Inc., Woodridge, IL. Drug development.

Menard Elec Cooperative: Petersburg, IL

MidCon Power Services Corp: Lombard, IL

Nanophase Technologies Corp., 1319 Marquette Dr., Romeoville, IL 60446. Nanocrystalline technology.

Natural Gas Pipeline Co. of America: Lombard, IL

Nicor Inc.: Naperville, IL

NuVant Systems Inc. 10 West 33rd Street, Perlstein Hall 127, Chicago, IL 60616. Tel: (888) 373-0303. Fuel cell systems and components

Peoples Energy Corp: Chicago, IL

Schneider Electric: Palatine, IL

S&C Electric Company. 6601 North Ridge Boulevard, Chicago, IL 60626-3997. Main Offices: Tel: (773) 338-1000. Power quality systems

Southwestern Electric: Greenville, IL

Southeastern Illinois Electric: Eldorado, IL

Union Pacific Railroad: Westmont, IL

### **Indiana**

AEP (American Electric Power): Fort Wayne, IN

AEP Indiana Michigan Power Co: Fort Wayne, IN

Central Indiana Power: Greenfield, IN

Citizens Gas & Coke Utility: Indianapolis, IN

City of Anderson Light & Power: Anderson, IN

Crawfordsville Electric Light & Power: Crawfordsville, IN

Cummins Inc., Box 3005, Columbus, IN 47202-3005. Manufacturer and worldwide distributor of engines and related technologies, including fuel systems, controls, air handling, filtration, emission solutions and electrical power generation systems.

Duke Energy Indiana: Plainfield, IN

Hoosier Energy Rural Electric Cooperative: Bloomington, IN

Indiana Michigan Power Co: Fort Wayne, IN

Indiana Municipal Power Agency: Carmel, IN

Indiana Natural Gas Corp.: Paoli, IN

Indianapolis Power & Light Co: Indianapolis, IN

Johnson County REMC: Franklin, IN

Kokomo Gas & Fuel Company: Kokomo, IN

Noble REMC: Albion, IN

Northeastern REMC: Columbia City, IN

Northern Indiana Fuel & Light Co. Inc.: Auburn, IN

Northern Indiana Public Service Company (NIPSCO): Merrillville, IN

Ohio Valley Gas Corp: Winchester, IN

Tipmont REMC: Linden, IN

United REMC: Markle, IN

Utilities Dist of Western Indiana REMC: Bloomfield, IN

Vectren Econ Dev: Evansville, IN

Wabash Valley Power Association: Indianapolis, IN

White County REMC: Monticello, IN

### **Iowa**

Acciona Energy, a firm based in Spain, and its subsidiary Acciona Windpower, has built a new \$23 million plant at West Branch, Iowa. The company also has plants in Spain and China.

Alliant Energy: Des Moines, IA

Alliant Energy - Midwest Sites: Cedar Rapids, IA

Aquila Inc: Cedar Rapids, IA

[BioForce Nanosciences Inc.](#), 1615 Golden Aspen Drive, Suite 101, Ames, IA 50010.

Developer of ultra-miniaturized nanoarray technologies.

Butler County Rural Elec Coop: Allison, IA

Cedar Falls Utilities: Cedar Falls, IA

Corn Belt Power Cooperative: Humboldt, IA

Eastern Iowa Light & Power Coop: Wilton, IA

Heartland Power Coop: Saint Ansgar, IA

IES Utilities: Cedar Rapids, IA

Iowa Assn. of Elec Coop: Urbandale, IA

Iowa Lakes Elec Coop: Estherville, IA

Iowa Stored Energy Park (ISEP) near McIntosh. A compressed air energy storage (CAES) system being developed for wind farms and other intermittent sources. Power produced during periods of strong winds is used to compress air and store it in an underground geologic structure. During peak power demands the air is released, mixed with a fuel and used to power combustion turbines. A 300-MW system is being planned.

[Iowa Thin Film Technologies](#). 2337 230th Street, Boone, Iowa 50036. Tel: 1 515 292 7606

Iowa Winds LLC, Iowa Falls, IA

Iowa Utility Assn: Des Moines, IA

Maquoketa Municipal Electric: Maquoketa, IA

Mid-American Energy Holdings Co., Des Moines, IA

Mid-America Pacific: West Des Moines, IA

MidAmerican Energy: Carroll, IA

MidAmerican Energy: Davenport, IA

MidAmerican Energy: Sioux City, IA

MidAmerican Energy: Urbandale, IA

Midwest Gas: Des Moines, IA

Municipal Light & Power Elec: Woodbine, IA

Muscatine Power: Muscatine, IA

[NMC](#), 3313 DAEC Road; Palo, IA 52324 operates the [Duane Arnold](#) nuclear power plant.

Northwest Iowa Power Coop: Le Mars, IA

Pioneer Hi-Bred International Inc., a DuPont subsidiary. P.O. Box 1000, Johnston IA 50131-0184. Genetic improvement of corn hybrids.

Rideta Electric Co-op Inc.: Mount Ayr, IA

Sanborn Municipal Light Plant: Sanborn, IA

Siemens Power Generation Inc. has announced plans to expand its turbine blade manufacturing operations in Fort Madison, Iowa. The \$33 million project includes two buildings and a rail yard. A total of about 500 workers will be located at the site.

Woodbury Rural Electric Cooperative: Merville, IA

**Kansas**

Aquila Inc.: Wichita, KS

Enertech Wind Systems. PO Box 703, 1800 SE 14th Street, Newton, KS 67114. Tel: 1-800-701-2888

Greeley Gas Co.: Herington, KS

Kansas City Board of Public Utilities: Kansas City, KS

KPL Gas Service: Topeka, KS

Kansas City Power: Lenexa, KS

Kansas City Power & Light: Paola, KS

Kansas Elec Power Co-op: Topeka, KS

Kansas Gas & Electric: Wichita, KS

[Nanoscale Materials Inc.](#) 1310 Research Park Dr., Manhattan, KS 66502. Developing reactive nanoparticles.

Peoples Natural Gas: Hugoton, KS

Rural Telephone Service Co. Inc.: Stockton, KS

Westar Energy: Topeka, KS

Western Resources Inc.: Wichita, KS

[Wolf Creek Nuclear Operating Co.](#), PO Box 411; Burlington, KS 66839-0411; operates Wolf Creek nuclear power plant.

**Kentucky**

AEP (American Electric Power): Ashland, KY

AEP (American Electric Power): Hazard, KY

Atmos Energy: Owensboro, KY

Big Rivers Electric Corp.: Henderson, KY

Blue Grass Energy: Nicholasville, KY

Bowling Green Municipal Utilities: Bowling Green, KY

Clark Energy Co-op Inc.: Winchester, KY

Columbia Gas of Kentucky: Lexington, KY

Constellation New Energy: Louisville, KY

Delta Natural Gas Co. Inc.: Winchester, KY

E.ON U.S.: Louisville, KY

East Kentucky Power Co-op Inc.: Winchester, KY

Jackson Energy Cooperative: McKee, KY

Kenergy Corp: Owensboro, KY

Kentucky American Water Co. Inc.: Lexington, KY

Nolin Rural Electric Cooperative: Elizabethtown, KY

Owensboro Municipal Utilities: Owensboro, KY

Salt River Electric: Bardstown, KY

South Kentucky Rural Electric Coop: Somerset, KY

Tennessee Valley Authority: Hickory, KY

### **Louisiana**

AEP Southwestern Elec Power: Shreveport, LA

Beauregard Electric Coop: Deridder, LA

Clairborne Elec Coop Inc.: Homer, LA

Cleco Power, LLC: Crowley, LA

Cleco Power LLC: Mandeville, LA

Cleco Power, LLC: Pineville, LA

DEMCO: Greenwell Springs, LA

Dixie Electric Membership Corp: Baton Rouge, LA

Entergy: New Orleans, LA

[Entergy Nuclear](#), PO Box 220; St. Francisville, LA 70775 operates River Bend nuclear power plant.

[Entergy Nuclear](#), PO Box B; Killona, LA 70066 operates Waterford nuclear power plant.

Entergy Corporation: West Monroe, LA

Entergy Louisiana Inc.: Baton Rouge, LA

Entergy New Orleans Inc.: New Orleans, LA

Gulf States Utilities: Baton Rouge, LA

Koch Gateway Pipeline Co.: Lafayette, LA

LA Generating LLC: Baton Rouge, LA

Louisiana Energy Power Authority: Lafayette, LA

Louisiana Public Facilities Authority: Baton Rouge, LA

Pointe Coupee Electric Membership Coop: New Roads, LA

SLEMCO: Crowley, LA

South Louisiana Electric Coop Assn: Houma, LA

### **Maine**

Bangor Hydro: Bangor, ME

Borex Inc. A Canadian firm, operates the Stratton Energy power plant in Maine. The company owns several hydroelectric plants and other biomass plants. The 45-MW facility sells power to broker Cinergy.

Central Maine Power Company: Augusta, ME

Maine & Maritimes Corporation: Presque Isle, ME

Maine Public Service Co: Presque Isle, ME

### **Maryland**

Allegheny Power: Williamsport, MD

AREVA, Bethesda, MD. AREVA and Duke Energy have launched a joint venture company, ADAGE, to develop biomass-to-electricity projects. AREVA will design and build biomass power plants, while Duke Energy Generation Services (DEGS) will manage operations. AREVA has designed and built more than 100 biopower facilities in Europe, Asia and South America with capacity of more than 2,500 MW.

Baltimore Gas & Electric: Baltimore, MD

[BP Solar](#), 630 Solarex Court, Frederick, MD 21703. Tel: 1 301 698 4200. The parent firm, BP, has been involved in [solar power](#) since 1973 and its subsidiary, [BP Solar](#), is now one of the world's largest solar power companies with production facilities in the [United States](#), Spain, India and Australia, employing a workforce of over 2,000 people worldwide. The company has begun constructing two new solar photovoltaic solar cell manufacturing plants, one at its European headquarters in Tres Cantos, Madrid, and the second at its joint venture facility, Tata BP Solar, in Bangalore, India.

Choptank Electric Co-op: Denton, MD

Constellation Energy: Baltimore, MD

[Constellation Energy](#), 1650 Calvert Cliffs Parkway; Lusby, MD 20657 operates Calvert Cliffs nuclear power plant.

Constellation NewEnergy: Baltimore, MD

Easton Utilities: Easton, MD

Energyworks Ltd., Landover, MD

Evotec Inc., Suite 5, Turley Court, North Potomac, MD 20878. A leading European biotech firm, Evotec OAI, plans to locate its first North American facility at the Genome Research Institute in Reading, where it could work with GRI and companies such as Procter & Gamble Pharmaceuticals to develop new drug compounds.

Frederick Gas Division: Frederick, MD

[Human Genome Sciences](#). 14200 Shady Grove Road, Rockville, MD 20850. Gene-based drugs.

UEK: PO Box 3124, Annapolis, MD 21403. Tel: (410) 267-6507. Manufacturer of turbines for tidal energy systems.

[United States Enrichment Corp.](#) 6903 Rockledge Drive, Bethesda, MD 20817. Enriched uranium fuel for commercial nuclear power plants.

### **Massachusetts**

Abbott Bioresearch Center, 100 Research Drive, Worcester, MA 01605. Pharmaceutical products.

American Superconductor Corp.: Westborough, MA, through its wholly owned subsidiary, AMSC Windtec, Klagenfurt, Austria, has landed new orders for its wind turbine electrical systems from customers in Canada and China.

Bay State Gas: Lawrence, MA

Bay State Gas: Westborough, MA

Berkshire Gas Company: Pittsfield, MA

Braintree Electric Light Dept.: Braintree, MA

Chicopee Electric Light: Chicopee, MA

Constellation NewEnergy: Boston, MA

[Cremat Nuclear Electronics](#), 45 Union St., Watertown, MA 02472. Manufacturer of charge sensitive preamplifiers for radiation detection

[Entergy Nuclear](#), Rocky Hill Road, Plymouth, MA 02360 operates Pilgrim nuclear power plant.

Evergreen Solar Inc. 138 Bartlett Street, Marlboro, MA 01752 Tel: +1 508.357.2221. [info@evergreensolar.com](mailto:info@evergreensolar.com)

Helicos BioSciences Corp., One Kendall Square, Building 700 Cambridge, MA 02139, has sold its first DNA sequencing system, a major development for the life sciences sector. The company's DNA mapping system, called the Heliscope Sequencer, is said to be the most advanced product of its kind on the market.

Holyoke Gas & Electric Dept.: Holyoke, MA

Hyperion Catalysis International Inc., 38 Smith Place, Cambridge, MA 02138. Producer of carbon nanofiber materials.

Konarka Technologies Inc., Lowell, MA, has raised \$32 million from ChevronTexaco utility company Electricité de France and venture capital firm Draper Fisher Jurvetson. Konarka, which counts Nobel Prize winner Alan Heeger as a founder, will produce solar cells made of thin layers of plastic.

Massachusetts Energy Consumers Alliance: Boston, MA

NanoLab Inc. 55 Chapel Street, Newton, MA 02458. Carbon nanotubes aligned arrays and powder nanotechnology.

NEES Companies: Westborough, MA

NSTAR: Boston, MA

National Grid: Northborough, MA

Ocean Renewable Power Co. LLC: 151 Martine St., Fall River, MA 02723.

Peabody Municipal Light Plant: Peabody, MA

[Physical Sciences Inc.](#), Andover, MA. The NASA Dryden Flight Research Center, Edwards, Calif., has contracted with PSI to develop an optical sensor. Firm also has contract from the National Science Foundation to develop an advanced carbon nanotube membrane for direct methanol fuel cells.

[Polytec PI Inc.](#), Auburn, MA. Piezoelectric transducers and nanopositioning equipment for scanning microscopy.

Reading Municipal Light Dept.: Reading, MA

Shrewsbury Electric & Cable Operations: Shrewsbury, MA

TransMolecular Inc., 840 Memorial Drive, Second Floor, Cambridge, MA 02139. A biotechnology company committed to discovering targeted therapies for aggressive cancers.

Trigen Companies: Boston, MA

[Turning Mill Energy](#): 68 Tupper Rd., Sandwich, MA 02563. Tel: 774-521-8234.

Verenium, a Massachusetts firm, has announced plans to build a \$250 million ethanol plant in Highlands County Northwest of Lake Okeechobee. Using a new technology developed by the University of Florida, it will be one the nation's first cellulosic processing facilities.

Western Mass. Elec. Co. - Northeast Utilities: West Springfield, MA

Westfield Gas & Electric: Westfield, MA

## **Michigan**

[Aastrom Biosciences](#). PO Box 376, Ann Arbor, MI 48105-9484. Developer of human cell therapy products.

[AEP](#). 1 Cook Place; Bridgman, MI 49106 operates DC Cook nuclear power plant.

American Electric Power-Michigan: Three Rivers, MI

[Ardesta](#), LLC. 201 South Main Street, 10th Floor, Ann Arbor, MI 48104. Bringing small tech and nano tech products to the global marketplace.

Citation Corporation. 27275 Haggerty Road, Suite 420, Novi, MI 48822. Tel: (248) 761-1805. Water pumps, fuel cell systems, steam turbine electric generators, wind energy system components

CMS Energy/ Consumers Energy: Jackson, MI

Cobasys. HQ, 3740 Lapeer Road South, Orion, MI 48359. Tel: 248-620-5700.

E-mail: [info@cobasys.com](mailto:info@cobasys.com). A joint venture between Chevron subsidiary Chevron Technology Ventures and Energy Conversion Devices. Operates \$137 million manufacturing plant, 50 Ovonic Way, Springboro, OH 45066. Tel: 937-743-1001. E-mail: [info@cobasys.com](mailto:info@cobasys.com). Produces battery systems for hybrid electric vehicles (HEVs) and systems that supply stationary back-up power.

Consumers Energy: Jackson, MI

Dow Chemical, Midland, MI, innovative drug-delivery technology, custom processing services, and functional ingredients.

DTE Energy: Detroit, MI

[DTE Energy](#), 6400 North Dixie Highway; Newport, MI 48166 operates the Fermi 2 nuclear power plant.

EaglePicher Inc. HQ, 2424 John Daly Rd., Inkster, MI 48141. Tel: 313.278.5956. Plants at Pittsburg, KS; Joplin, MO; and elsewhere. Owns controlling interest in Korea-based Kokam Engineering Co. Ltd., a maker of rechargeable lithium-ion batteries. Kokam located new HQ in the Kansas City-area community of Lee's Summit, MO.

[Energy Conversion Devices Inc. Ovonics](#). 2956 Waterview Drive, Rochester Hills, MI 48309, Tel: 1 248 293 0440. PV components.

Grayling Generating Station: Located in north central Michigan, it provides electricity to a remote region, using wood wastes such as hog fuel bark, forest residues and mill scraps.

Great Lakes Energy: Scottville, MI

MichCon: Grand Rapids, MI

Michigan Bell Econ Dev Group: Lansing, MI

Michigan Consolidated Gas Co.: Detroit, MI

[NMC](#), 27780 Blue Star Memorial Highway; Covert, MI 49043 operates the Palisades nuclear power plant.

Orchid Bio-Coat, a division of Orchid Orthopedic Solutions LLC. 21249 Bridge Street Southfield, MI 48034. Implant fixation.

PrimeStar Solar Inc. is planning to double the workforce at its new Montague manufacturing facility. The company recently received a \$3 million contract from the Department of Energy to develop utility-scale thin film solar modules. The company's CEO cited Michigan's high-skilled manufacturing base and its extended production equipment fabrication network as one of the prime attractions of the location.

United Solar Ovonics LLC., 3800 Lapeer Road, Auburn Hills, MI 48326. Tel: 248-475-0100. [www.uni-solar.com](http://www.uni-solar.com). The world's largest manufacturer of triple junction amorphous silicon photovoltaic (PV) solar panels for converting sunlight into electricity. A wholly owned subsidiary of Energy Conversion Devices.

Wolverine Power: Cadillac, MI

Yellowstone Valley Elec Coop Inc.: Huntley, MI

## **Minnesota**

[Cymbet](#) Corp., Elk River, MN, Manufacturing process for solid state lithium ion power sources.

Denali Energy Inc., Baxter, MN

East Central Energy: Braham, MN

Great River Energy: Elk River, MN

Independent Natural Resources Inc., 7466 Washington Avenue, South Eden Prairie, MN 55344. A system designed to generate electricity and desalt seawater.

Minnesota Municipal Utilities Assoc.: Plymouth, MN

Minnesota Power: Duluth, MN

Minnesota Public Utilities Commission: St. Paul, MN

Minnesotans for an Energy-Efficient Economy: St Paul, MN

[Molecular Manufacturing Enterprises Inc.](#), 9653 Wellington Lane St. Paul, MN 55125. Founded to help accelerate advancements in the field of molecular nanotechnology.

Moose Lake Water & Light Comm: Moose Lake, MN

[Nanopowders Industries Inc.](#), 1000 Westgate Drive, Suite 100, St. Paul, MN 55114-1067. Special alloy powders for electronic components.

[NMC](#), 2807 West Highway 75; Monticello, MN 55362 operates Monticello nuclear power plant.

[NMC](#), 1717 Wakonade Drive East; Welch, MN 55089 operates Prairie Island nuclear power plant.

Suzlon Wind Energy, one of the world's largest developers of wind turbines, is operating at a site at Pipestone, Minn., about 200 miles (322 km) southwest of St. Paul.

NRECA: Inver Grove Heights, MN

Otter Tail Power Co.: Fergus Falls, MN

Peoples Natural Gas: St. Paul, MN

Southern Minnesota Municipal Power Agcy: Rochester, MN

Wild Rice Elec Coop: Mahnommen, MN

Xcel Energy: Minneapolis, MN

### **Mississippi**

Atmos: Jackson, MS

Coast Electric Power Association: Bay Saint Louis, MS

Electric Power Assn. Mississippi: Ridgeland, MS

Entergy Mississippi: Jackson, MS

[Energy Nuclear](#), PO Box 756; Port Gibson, MS 39150, operates Grand Gulf nuclear power plant.

Four-County Elec. Power Assn.: Columbus, MS

Integrated Bio-Energy Resources Inc., 3344 Goodman Road, Southaven, MS 38672. Produces Bio-Gasoline and Bio-Diesel.

Mississippi Power: Gulfport, MS

Municipal Energy Agency of Mississippi: Jackson, MS

### **Missouri**

[Ameren](#), PO Box 620, Callaway, MO 65251; operates Callaway nuclear power plant.

Ameren Services: Saint Louis, MO

Aquila Inc.: Kansas City, MO

Aquila Inc.: Saint Joseph, MO

Associated Electric: Springfield, MO

Association of Missouri Electric Co-ops: Jefferson City, MO

Callaway Elec Coop: Fulton, MO

Central Elec Power Co-op: Jefferson City, MO

City Utilities of Springfield: Springfield, MO

Cuivre River Electric Coop.: Troy, MO

Empire District Elec Co: Joplin, MO

Farmers' Electric Co-operative: Chillicothe, MO

Kansas City Power: Kansas City, MO

Kansas City Power & Light: Kansas City, MO

Missouri Gas Energy: Grandview, MO

Missouri Natural Gas Co.: Farmington, MO

Missouri Public Service: Kansas City, MO

N.W. Electric Cooperative: Cameron, MO

NorthStar Battery Co., 4000 E. Continental Way, Springfield, MO 65803. Tel: (417) 865-5998. Has announced a \$73-million project that will add 400 new employees

Platte Clay Electric: Kearney, MO

**Montana**

Arnold Light & Water Municipality: Arnold, MT

Energy Transfer Corporation: RR #1, Sun River, MT 59483. Tel: 406-866-2344.

Fuhrlander AG, a substantial German manufacturer of wind turbines, located a new \$25 million plant near Butte, Mont. Wind turbines built at the plant will sell for about \$4 million each and produce up to 2.5 MW each of electricity

NorthWestern Energy: Butte, MT

State of Montana Public Service Commission: Helena, MT

**Nebraska**

Black Hills Energy: Lincoln, NE

City of Curtis Light & Water: Curtis, NE

[Entergy Nuclear](#), PO Box 98; Brownville, NE 68321 operates Cooper nuclear power plant.

MidAmerican Energy Holdings, Omaha, Neb.: Parent company of CalEnergy Operating Corp., which owns all of the power plants in the Salton Sea Geothermal Field in California, containing the region's hottest and most saline brines.

K.N. Energy Inc: Hastings, NE

K.N. Energy Inc.: Scottsbluff, NE

Loup Power Dist: Columbus, NE

Metropolitan Utilities District: Omaha, NE

Nebraska Municipal Power: Lincoln, NE

Nebraska Public Power District: Columbus, NE

[Omaha Public Power District](#), 444 South 16th Street Mall; Omaha, NE 68102-2247 operates Fort Calhoun nuclear power plant.

Peoples Natural Gas: Omaha, NE

Perennial Public Power Dist: York, NE

Twin Valley's Public Power Dist: Cambridge, NE

UtiliCorp United-Headquarters: Omaha, NE

**Nevada**

[Altair Nanotechnologies Inc.](#) 204 Edison Way, Reno, NV 89502. Plasma spray coating containing titania nanoparticles.

Nevada Power Co., Las Vegas, NV. [Will invest in a 30-MW plant near Fallon according to an announcement from Sierra Pacific Resources, Nevada Power's parent company.](#) The utility and Ormat Technologies, a geothermal developer, will each own 50 percent of the Carson Lake project. Ormat officials said the venture is the first time an investor-owned utility has directly invested in a

geothermal project in the United States.

Ormat Nevada Inc., Sparks, Nev., has acquired geothermal projects at East Mesa. These plants are currently producing power for sale to Southern California Edison.

Ormat Technologies, Inc., 6225 Neil Road, Reno, Nevada 89511-1136, Tel.: (775) 356-9029, Fax: (775) 356-9039. Southern Nevada Water Authority: Las Vegas, NV

Sierra Pacific Power Company: Reno, NV

Southwest Gas Corp: Elko, NV

Southwest Gas Corp: Las Vegas, NV

[US Global Nanospace](#) Inc. 2533 N. Carson St., Mound House, NV 89706. NanoFilter, decontamination foam and nanoscience applications.

### **New Hampshire**

[FPL](#), PO Box 300; Seabrook, NH 03874-0300, operates Seabrook nuclear power plant.

Moore Nanotechnology Systems LLC, 426A Winchester St., P.O. Box 605, Keene, NH 03431-0605. Ultra-precision machine systems, typically utilizing Single Point Diamond Turning and Deterministic Micro-Grinding technologies, for the production of plano, spherical, aspheric, forms.

National Grid: Salem, NH

New England Power Co: Concord, NH

New Hampshire Elec. Coop. Inc.: Plymouth, NH

Northern Utilities Inc., NH Div: Portsmouth, NH

Public Service of New Hampshire: Manchester, NH

Town of Ashland Elec. Dept.: Ashland, NH

Unitil Systems: Hampton, NH

Wheelabrator Technologies Inc., 4 Liberty Lane, West Hampton, NH.

Woodsville Water & Light Dept: Woodsville, NH

### **New Jersey**

American Water Works Company Inc.: Voorhees, NJ

Atlantic City Electric: Mays Landing, NY

[Bell Labs](#). 600 Mountain Ave., Murray Hill, NJ 07974-0636. As part of the new Alcatel-Lucent innovation engine, Bell Labs is poised to help define the next generation of communications technology.

[CIPHERGEN Biosystems](#). 141 Wilshire Dr., Belle Mead, NJ 8502. Systems that enable protein discovery, characterization and assay

development.

Covanta Energy: Fairfield, NJ

Elizabethtown Gas Co.: Union, NJ

[Energy Photovoltaics Inc.](#) 276 Bakers Basin Road, Lawrenceville, NJ 08648, Tel: 1 609 587 3000.

Energy Storage and Power Corp., 40 Woodman Lane, Basking Ridge, NJ 07920. Tel: 908-658-4484. A leader in technology for the conversion of compressed air energy into electric power.

[Exelon](#), PO Box 388, Forked River, NJ 08731 operates Oyster Creek nuclear power plant.

FirstEnergy: Phillipsburg, NJ

FirstEnergy Company: Red Bank, NJ

GE Healthcare *Bio-Sciences* Corp. [800 Centennial Ave, Piscataway, NJ 08854](#) (formerly Amersham Pharmacia Biotech Inc. [Amersham Biosciences](#). Involved in gene and protein research, drug discovery and development, and biopharmaceutical manufacturing in New Jersey. Nuclear related products.

Hess Corporation: Woodbridge, NJ

[Hielscher Inc. 19 Forest Rd., Ringwood, NJ 07456. Ultrasound technology.](#)

H Power. 60 Montgomery Street, Belleville, NJ 07109. Tel: 973-450-4400. Fuel cell systems

Merck & Co. Inc., One Merck Drive, P.O. Box 100, Whitehouse Station, NJ 08889-0100. Large pharmaceutical firm with extensive research.

Nanonex, 1 Deer Park Drive, Suite O, Monmouth Junction, NJ 08852. Nanoimprint lithography (NIL) tools, resists, masks.

[Nanopowder Enterprises Inc.](#) 120 Centennial Ave., Piscataway, NJ. Producer of specialty nanopowders.

New Jersey Natural Gas Co.: Asbury Park, NJ

New Jersey Natural Gas Co: Wall, NJ

Ocean Power Technologies Inc.: 1590 Reed Road, Pennington, NJ 08534. Plans to install a 5 MW "Powerbuoy Smart System" project for the U.S. Navy in Oahu, HI. Ocean trials have also been conducted off the coast of New Jersey. OPT is installing a wave farm off the northern coast of Spain in cooperation with the Spanish utility Iberdrola SA. Another full-size demonstration plant is planned for U.K. waters.

[Orchid BioSciences](#) Inc. 4390 US Route One Princeton NJ 08540. Technologies for genetic diversity analyses.

Public Service Electric & Gas Co. (PSE&G): Hackensack, NJ

Public Service Electric & Gas Co. (PSE&G): Newark, NJ

[PSE&G](#), PO Box 236, Hancock Bridge, NJ 08038 operates Hope Creek nuclear power plant.

[PSE&G](#), PO Box 236; Hancock Bridge, NJ 08038 operates Salem nuclear power plant.

### New Mexico

CEDA Plains Electric: Albuquerque, NM

Public Service Company of New Mexico: Albuquerque, NM

Santa Fe Railway: Albuquerque, NM

Schott AG, a German solar energy firm, will build a new plant in the Mesa del Sol area near Albuquerque to produce both photovoltaic (PV) modules and receivers for concentrated solar thermal power plants (CSP). Schott will invest approximately \$100 million to start. That will include a 200,000-sq.-ft. (18,581-sq.-m.) facility that will employ 350 people. Plans call for expansion to 800,000 sq. ft. (74,322 sq. m) with 1,500 employees and an investment up to \$500 million by 2012.

SkyFuel Inc. was awarded a grant by the U.S. Dept. of Energy to develop its advanced CSP/LPT system. LPT is a high-temperature linear Fresnel system with molten salt storage. 10701 Montgomery Blvd NE, Suite A, Albuquerque, NM 87111.

Stirling Energy Systems, a combine working with Sandia National Laboratories, has set a new solar-to-grid system conversion efficiency record of more than 31 percent. The prototype model power plant consisted of a six-dish layout with each dish array having 82 mirrors.

UTC Power, a subsidiary of United Technologies Corporation, and Raser Technologies Inc. is involved with construction of the first commercial geothermal power plant in New Mexico. Located near Animas in the southwest corner of the state, the 10-MW Lightning Dock geothermal power plant will produce power using modular "PureCycle" power units from UTC.

### New York

AES Solar. Corp, Arlington, Va., and Riverstone Holdings LLC, New York City, have formed a joint venture in which AES Solar will invest \$1 billion in the next five years in new PV installations at sites yet to be named.

Antigenics Inc., 162 Fifth Avenue, Suite 900, New York, NY 10010. Low toxicity treatments for cancers and infections.

[Applied NanoWorks](#) Inc., 9 University Place, Suite 331, Rensselaer, NY 12144. Next generation technology to produce 2nm-40nm semiconductor, metal and oxide crystals produced in water colloids

BlueSkyWind, LLC.: 10 New King Street, White Plains, NY 10604. Tel: 914-949-2292.

Brooklyn Union Gas (Keyspan Energy Corp): Brooklyn, NY

Caithness Corporation: Headquarters, 565 Fifth Avenue, 29th Floor, New York, NY. Development, acquisition, operation, and management of geothermal, hydroelectric, wind, and solar energy power projects

Central Hudson Gas & Elec. Corp.: Poughkeepsie, NY

Consolidated Edison: New York, NY

Constellation New Energy: New York, NY

[Constellation Energy](#), 1503 Lake Road; Ontario, NY 14519, operates Ginna and [Nine Mile Point](#) 1,2, nuclear power plants.

[Entergy Nuclear](#), PO Box 41; Lycoming, NY 13093; operates FitzPatrick and [Indian Point 2, 3](#) nuclear power plants.

EnviroGen LLC: Buffalo, NY

[Evident Technologies](#), 45 Ferry Street, Troy, NY 12180. Manufacturer of EviDots, Semiconductor Nanocrystals.

eVionyx Inc., 6 Skyline Dr., Hawthorne, NY 10532. Tel: 914-345-0321. Investors include Niagara Mohawk and Cheng Xin Technology Development Corp.; it has raised \$80 million in funding. Fuel cells

Gaia Power Technologies Inc., 116 John Street – Suite 820, New York, NY 10038. Tel: 212.732.5507. Gaia's standard unit can power a 2,000 sq. ft. home through 95 percent of all power outages.

General Electric Co., Schenectady, NY. According to company summary, "From jet engines to power generation, financial services to security, medical imaging to ecomagination, GE is imagination at work."

GE Energy: 1 River Road, Schenectady, NY 12345. Tel: (518) 385-7343. General Electric Inc. Schenectady, N.Y. Four main product lines in the nuclear field include: new reactors, nuclear fuel, reactor services and performance services. Global Nuclear Fuel is a joint venture of General Electric, Hitachi, and Toshiba for supply of nuclear-fuel.

Lacey Manufacturing Inc., PO Box 2024, Albany, NY 12220. Tel: 877-276-0640. Fuel cell systems, gas turbine electric generators, fuel-powered electric generators, hybrid electric vehicles

Long Island Power Authority: Uniondale, NY

[Maple Ridge Wind Farm](#) near [Lowville, NY](#) – one of the largest in the country – has had to shut down at times when the grid serving its area was overloaded and could not deliver its output.

[MTI MicroFuel Cells](#), 431 New Karner Road, Albany, NY 12205. Tel: 518.533.2222. Has developed a miniaturized direct methanol fuel cell (DMFC) technology called Mobion

[NanoDynamics Inc.](#) 901 Fuhrmann Blvd., Buffalo, N.Y. 14203. Nanomaterials and nanotechnology enhanced components.

Nanoprobes, 95 Horse Block Road, Yaphank, NY 11980-9710. Nanogold-Streptavidin has been used for ultrasensitive *in situ* hybridization to localize viral DNA and RNA in carcinoma specimens.

National Fuel: Williamsville, NY

National Grid: Buffalo, NY

National Grid: Syracuse, NY

New York Power Authority: White Plains, NY

New York State Elec. & Gas: Ithaca, NY

New York State Electric & Gas: Lancaster, NY

Niagara Mohawk Power Corp.: Albany, NY

Orange & Rockland Utilities: Pearl River, NY

Prism Solar Technologies, 703 Grant Ave., Lake Katrine, NY 12449; Tel: 845.943.5377. Fax: 845.336.8050. [info@prismsolar.com](mailto:info@prismsolar.com)

Rochester Gas & Electric Corporation: Rochester, NY

Steuben Rural Electric Coop Inc.: Bath, NY

[TerraSolar Inc.](#), 44 Court St., Tower B, Brooklyn, NY 11201. E-mail: [info@terrasolar.com](mailto:info@terrasolar.com)

Toko Asia Wind Energy. 198-11 47th Ave FL1, Flushing, NY 11358 . Tel: 718-767-3168

Utility Economic Development Association: Larchmont, NY

### **North Carolina**

Blue Ridge Electric Member Corporation: Lenoir, NC

Brunswick Electric Member Corporation: Shallotte, NC

Cogentrix Energy: Charlotte, NC

Duke Energy: Charlotte, NC. Tel: (704) 382-3747. AREVA and Duke Energy have launched a joint venture company, ADAGE, to develop biomass-to-electricity projects. AREVA will design and build biomass power plants, while Duke Energy Generation Services (DEGS) will manage operations. AREVA has designed and built more than 100 biopower facilities in Europe, Asia and South America with capacity of more than 2,500 MW. [Duke Energy](#), 12700 Hagers Ferry Road; Huntersville, NC 28078-9340 operates McGuire nuclear power plant. [Solargenix Energy](http://www.solargenix.com/) (<http://www.solargenix.com/>) (formerly Duke Solar Energy): 1378 McNeill Road, Sanford, NC 27330. Duke Energy, Charlotte, NC, has assets in the United States, Canada and Latin America. [Duke Cogema Stone & Webster](#) (DCS) is a consortium providing services to the U.S. Department of Energy

Duke Energy Co.: Greensboro, NC

Duke Energy: Hendersonville, NC

Duke Energy Carolinas: Hickory, NC

Edgecombe-Martin County Elec. Membership: Tarboro, NC

Electricities of North Carolina Inc.: Raleigh, NC

EnergyUnited: Statesville, NC

Fayetteville Public Works commission: Fayetteville, NC

French Broad Electric Membership: Marshall, NC

Greenville Utilities Commission: Greenville, NC

Halifax Electric Membership Corp.: Enfield, NC

Lumbee River Elec Membership Corp: Red Springs, NC

North Carolina Natural Gas: Fayetteville, NC

North Carolina Power: Roanoke Rapids, NC

North Carolina's Touchstone Energy Cooperatives: Raleigh, NC

PSNC Energy, A Scana Co.: Gastonia, NC

Pee Dee Electric Membership Corp.: Wadesboro, NC

Piedmont Elec Membership Corp: Hillsborough, NC

Piedmont Natural Gas Co.: Charlotte, NC

Progress Energy: Raleigh, NC

[Progress Energy](#), PO Box 10429, Southport, NC 28461, operates Brunswick and [Shearon Harris](#), nuclear power plants.

Time Warner Cable: Charlotte, NC

Westinghouse Electric Co., 3545 Whitehall Park Drive, Charlotte, NC. Provides fuel, services, technology, plant design, and equipment for nuclear power plants. Westinghouse has contracts for four new reactors in China and six in South Korea. The firm has designed about half of the reactors in operation around the world.

### **North Dakota**

Basin Elec Power Coop: Bismarck, ND

Cass County Elec: Kindred, ND

Central Power Electric Coop: Minot, ND

Great River Energy: Stanton, ND

Minnkota Power Coop Inc.: Grand Forks, ND

Montana Dakota Utilities Co.: Bismarck, ND

North Dakota Assoc of Rural Elec. Co-0ps: Mandan, ND

Otter Tail Power Company: Fergus Falls, ND

Xcel Energy: Fargo, ND

Xcel Energy: Minot, ND

### **Ohio**

AEP (American Electric Power): Columbus, OH

AEP (American Electric Power): Gahanna, OH

Adams Rural Electric: West Union, OH

American Municipal Power - Ohio: Columbus, OH

Buckeye Power: Columbus, OH

Columbia Gas of Ohio - NiSource: Columbus, OH

Constellation NewEnergy: Columbus, OH

Crown Battery Mfg. Co., 1445 Majestic Drive, P.O. Box 990, Fremont, OH 43420. Tel: (419) 334-7181

Darke Rural Electric Cooperative: Greenville, OH

Dayton Power & Light: Dayton, OH

Duke Energy Ohio/Kentucky: Cincinnati, OH

Duke Energy Generation Services (DEGS): 139 East Fourth Street, Mail Code EA502, Cincinnati, OH 45202.

FirstEnergy Corp: Akron, OH

[First Energy Corp.](#), 5501 North State Route 2; Oak Harbor, OH 43449, operates Davis Besse and [Perry](#) nuclear power plants.

FirstEnergy Corp: Warren, OH

Gene Express Inc., 975 Research Drive, Toledo, OH 43614, is a technology-licensing company.

[Green Energy Technologies](#), 846 N. Cleveland Massillon Road, Akron, OH 44333. Tel 330-388-3701

Guernsey-Muskingum Elec. Co-op Inc.: New Concord, OH

Hancock-Wood Elec Coop: North Baltimore, OH

IBC Solar AG has chosen Cleveland, OH, for its U.S. headquarters. The firm recently entered into a partnership with Hyderabad-based Solar Semiconductor, a rapidly growing producer of photovoltaic (PV) modules. That deal involves a reported \$575 million.

Isofoton, Spain's largest solar panel manufacturer, with more than \$400 million in annual sales, is another global player entering the U.S. market. The firm is said to be looking at sites in Ohio for its first plant in North America.

Lorain-Median Rural Electric Coop: Wellington, OH

[NexTech Materials Ltd.](#), 404 Enterprise Dr., Lewis Center, OH 43035. Manufacturer of ceramic products for chemical, electrochemical, and electronics.

North Central Electric Cooperative Inc.: Attica, OH

OH Alternative Power. Mason Building 406 Washington Ave, Lorain, OH 44052. Tel: +1 216 799-8607

Ohio Valley Electric Corporation: Piketon, OH

Paulding-Putnam Electric Coop. Inc.: Paulding, OH

Pioneer Rural Electric Co-op: Piqua, OH

Piqua Municipal Power System: Piqua, OH

Procter & Gamble Pharmaceuticals Inc., One Procter & Gamble Plaza, [Cincinnati, Ohio](#) 45202. A wide range of prescription products.

South Central Power Co.: Lancaster, OH

[Swiger Coil Systems](#), 4677 Manufacturing Road, Cleveland, OH 44135. Tel: 800-321-3310.

The Energy Cooperative: Newark, OH

Toledo Edison Co.: Toledo, OH

Wellington Municipal Utilities: Wellington, OH

### **Oklahoma**

AEP Public Service of OK: Tulsa, OK

Anadarko Petroleum Corp., Oklahoma City Div: Oklahoma City, OK

Claremore Utilities: Claremore, OK

Indian Electric Coop: Cleveland, OK

Kamo Electric Co-Op Inc: Vanita, OK

OG&E Electric Services: Oklahoma City, OK

Oklahoma Electric Cooperative: Norman, OK

Oklahoma Natural Gas Co.: Oklahoma City, OK

Panhandle Telephone Co-Op: Guymon, OK

Public Service Co of Oklahoma: Tulsa, OK

Rural Elec Coop: Lindsay, OK

Verdigris Valley Elec Co-Op: Collinsville, OK

Western Farmers Electric Co-op: Anadarko, OK

### **Oregon**

Douglas Electric Cooperative/Douglas FastNet: Roseburg, OR

Eugene Water & Elec Board: Eugene, OR

IdaTech, 63065 NE 18th Street, Bend, OR 97701. Tel: 541-383-3390. Remote power, portable power

Klamath Tribes: A proposed biomass energy plant would cost about \$8 million to \$12 million. Tribal leaders are meeting with potential partners on the project planned for the former Crater Lake Mill site 25 miles (40 km) north of Chiloquin. Preliminary plans call for an 8-MW plant that would use a variety of biomass sources, such as woody material and solid waste from urban areas.

Northwest Natural Gas Co.: Albany, OR

Northwest Natural Gas Co.: Lincoln City, OR

Northwest Natural Gas Co.: Portland, OR

Northwest Natural Gas Co.: Salem, OR

Northwest Natural Gas Co.: The Dalles, OR

Pacific Corporation. In Oregon, there is a co-generation power plant at the Camas paper mill, near Portland. The plant burns wood wastes and spent liquors from the mill. Excess power is sold to the Pacific Corporation.

Pacific Power & Light: Albany, OR

Pacific Santa Fe Corporation: Lake Oswego, OR

Pacificorp: Portland, OR

Portland General Electric Co.: Portland, OR

PPM Energy, HQ, Portland, OR

Solarfun. Eugene, Oregon. Tel: 1-541-228-8888

Solect Systems Inc. PO Box 9157, Bend, OR 97708. Tel: (541) 330-2655

Qwest: Portland, OR

### **Pennsylvania**

ADAGE, 225 Wilmington West Chester Pike, Suite 302, Chadds Ford, PA 19317. (610) 358-3404. AREVA and Duke Energy have launched a joint venture company, ADAGE, to develop biomass-to-electricity projects. AREVA will design and build biomass power plants, while Duke Energy Generation Services (DEGS) will manage operations. AREVA has designed and built more than 100 biopower facilities in Europe, Asia and South America with capacity of more than 2,500 MW.

Allegheny Power: Greensburg, PA

Aqua America Inc.: Bryn Mawr, PA

CarboLex Inc., 460 Parkway, Broomall, PA 19008. Carbon nanotube sales for research and industry.

Central Electric Co-op Inc.: Parker, PA

Citizens Electric Company: Lewisburg, PA

Columbia Gas of PA & MD: Canonsburg, PA

Community Energy Inc.: Wayne, PA

Consolidated Natural Gas: Pittsburgh, PA

Continental Cooperative Services: Harrisburg, PA

Dominion Peoples: Pittsburgh, PA

Duquesne Light Co: Pittsburgh, PA

Energys Inc., 2366 Bernville Road, Reading, PA 19605. Tel: 800-538-3627. 610-208-1991. One of the world's largest industrial battery companies. New plant, Warrensburg, MO.

Equitable Gas Co.: Pittsburg, PA

[Exelon](#), PO Box 2300; Saratoga, PA 19464-0920 operates Limerick, [Peach Bottom](#), and Three Mile Island nuclear power plants.

Exelon Corporation: Kennett Square, PA

[First Energy Corp.](#), P.O. Box 4; Shippingport, PA 15077 operates [Beaver Valley](#) nuclear power plant.

First Energy: Lebanon, PA

FirstEnergy Corp. (GPU): Reading, PA

Gamesa Wind Inc., a Spanish firm, has occupied facilities at the abandoned U.S. Steel plant in Bucks County, Penn. Gamesa is one of the world's largest makers of wind turbines.

National Fuel Gas Distribution Corporation: Erie, PA

Northwestern Rural Electric Co-op: Cambridge Springs, PA

PECO Energy Co. Economic & Business Development: Philadelphia, PA

PG Energy: Wilkes-Barre, PA

PPL Electric Utilities: Allentown, PA

[Pennsylvania Power & Light Company](#), PO Box 467; Berwick, PA 18603 operates [Susquehanna](#) nuclear power plant.

Pennsylvania Power Co.: Clark, PA

Pennsylvania Rural Elec. Assn.: Harrisburg, PA

Philadelphia Gas Works: Philadelphia, PA

T. W. Phillips Gas & Oil Co.: Butler, PA

[Solar Power Industries](#). 13 Airport Road Belle Vernon, PA 15012. Tel: 1 724 379 2001

Trigen Energy Corporation: Philadelphia, PA

UGI Electric: Wilkes-Barre, PA

UGI Penn Natural Gas: Wilkes-Barre, PA

UGI Utilities: Reading, PA

United Electric Coop: DuBois, PA

Versilant Nanotechnologies LLC., Villanova, PA. Pioneering the invention, development, and production of nanotechnology-based materials.

Wellsboro Electric Company: Wellsboro, PA

[Yuasa Battery Inc.](#) Laureldale, PA.

**Rhode Island**

Narragansett Electric Company: Providence, RI

National Grid: Providence, RI

People's Power & Light: Providence, RI

Providence Gas Co: Providence, RI

**South Carolina**

Aiken Electric Cooperative Inc.: Aiken, SC

Berkeley Electric Cooperative: Moncks Corner, SC

Black River Electric Cooperative: Sumter, SC

Blue Ridge Electric Cooperative Inc.: Pickens, SC

Broad River Electric Cooperative Inc.: Gaffney, SC

Central Electric Power Cooperative: Columbia, SC

Coastal Electric Cooperative: Walterboro, SC

[Duke Energy](#), 4800 Concord Road; York, SC 2974; operates Catawba and Oconee nuclear power plants.

Duke Energy Carolinas: Duncan, SC

Edisto Electric Cooperative: Bamberg, SC

Fairfield Electric Cooperative: Winnsboro, SC

Fort Hill Natural Gas Authority: Easley, SC

Horry Electric Cooperative: Conway, SC

Laurens Electric Cooperative: Laurens, SC

Little River Electric Cooperative: Abbeville, SC

Lynches River Electric Cooperative: Pageland, SC

Marlboro Electric Cooperative Inc.: Bennettsville, SC

Mid-Carolina Electric Cooperative Inc.: Lexington, SC

New Horizon Electric Cooperative: Laurens, SC

Newberry Electric Cooperative: Newberry, SC

Palmetto Electric Cooperative: Hardeeville, SC

Palmetto Electric Cooperative Inc.: Hilton Head, SC

Palmetto Electric Cooperative Inc.: Ridgeland, SC

Pee Dee Electric Coop: Darlington, SC

Piedmont Natural Gas Co. Inc.: Anderson, SC

Piedmont Natural Gas Co. Inc.: Greenville, SC

Piedmont Natural Gas Co. Inc.: Spartanburg, SC

Piedmont Municipal Power Agency: Greer, SC

[Progress Energy](#), 3581 West Entrance Road; Hartsville, SC 29550; operates Robinson nuclear power plant.

Progress Energy: Florence, SC

SCANA Corporation: Columbia, SC

Santee Cooper Power: Moncks Corner, SC

Santee Electric Cooperative: Kingstree, SC

[South Carolina Electric & Gas Company](#), PO Box 88; Jenkinsville, SC 29065; operates VC Summer nuclear power plant.

South Carolina Power Team: Columbia, SC

Tri-County Electric Cooperative: St. Matthews, SC

URS Nuclear Center, Fort Mill, SC. ([Washington Group International Inc.](#)). Project management, engineering, construction, maintenance of nuclear power plants.

York County Natural Gas Authority: Rock Hill, SC

York Electric Cooperative Inc.: York, SC

### **South Dakota**

Black Hills Power & Light Company: Rapid City, SD

East River Electric Power Coop: Madison, SD

Molded Fiber Glass Company. is opening a new wind turbine manufacturing plant in Aberdeen, S.D., to supply blades for GE turbines. The \$40 million facility will employ 750.

Northern Lights Community: Rapid City, SD

Northwestern Corp: Sioux Falls, SD

### **Tennessee**

Aerisyn LLC, a new alternative energy company, has selected Chattanooga for its first plant site. The firm will occupy the former

Combustion Engineering facility that has 1,000-foot-(305-m.)-long bays and an 800-ton (726-metric-ton) crane. Wind turbine towers fabricated in the plant will be shipped via a barge dock on the Tennessee River adjoining the site.

Bristol Tennessee Elec System: Bristol, TN

Brownsville Utilities: Brownsville, TN

Caney Fork Electric Co-op Inc.: McMinnville, TN

[Chase Environmental Group](#), 109 Flint Rd., Oak Ridge, TN 37830.

Cipher Technology, 2016 Trinity Lane, McKinney, TX 75070. Tel: (214) 592-9652. Solar Panels, DC to AC power inverters, fuel cell systems

Cleveland Utilities: Cleveland, TN

Cookeville Electric Dept.: Cookeville, TN

Electric Power Board of Chattanooga: Chattanooga, TN

eSpin Technologies Inc. (Espin). Chattanooga, TN. Producer of commercial quantity nanofibers from organic polymers.

Hawkins County Gas Utility: Rogersville, TN

Hemlock Semiconductor Corp. of Michigan to [invest](#) \$1.2 billion to build a plant in Clarksville to manufacture polysilicon, a key component of solar-electric panels. Some 800 jobs.

Holston Electric Cooperative: Rogersville, TN

IBC follows the lead of Sharp in setting up units in the United States. Several years ago the big Japanese firm located its sales and marketing subsidiary, Sharp Electronics Corporation, in Memphis. That was Sharp's first solar panel manufacturing facility outside of Japan.

Memphis Light Gas and Water: Memphis, TN

Meriwether Lewis Electric Co-Op: Wavery, TN

Middle Tennessee Electric Membership Corporation: Murfreesboro, TN

Middle Tennessee Natural Gas Dist.: Smithville, TN

Nashville Electric Service: Nashville, TN

Nashville Gas: Nashville, TN

Powell Valley Electric Cooperative: New Tazewell, TN

SouthStar Energy Services - Tennessee: Hermitage, TN

[Tennessee Valley Authority](#), 1101 Market Street; Chattanooga, TN 37402 operates [Sequoyah](#), Soddy-Daisy, and [Watts Bar](#) nuclear power plants.

Tennessee Valley Authority: Knoxville, TN

Tennessee Valley Authority: Nashville, TN

Volunteer Energy Cooperative: Decatur, TN

### **Texas**

ACN Energy Inc.: Houston, TX

[Active Power Inc.](#), 2128 W. Braker Lane, BK12, Austin, TX 78758. Tel: 512.836.6464. UPS systems

American Electric Power: Corpus Christi, TX

AmPro Energy Inc.: Sugar Land, TX

Anadarko Petroleum Corp: Houston, TX

Atmos Energy Corp: Dallas, TX

Austin City Council has approved a \$2.3 billion purchasing agreement for what will become the largest [wood-waste-fueled biomass plant](#) in the United States. The city will buy all power produced by the 100-MW Sacul, Texas, plant for the next 20 years. The facility will generate power from burning wood waste from logging and mill operations, urban waste from tree clearing and trimming, and from shipping pallets. Completion is planned for 2012.

Bailey County Electric Coop Assn: Muleshoe, TX

Bluepoint Gas Services Inc.: Dallas, TX

Brownsville Public Util Board: Brownsville, TX

Burlington Northern Railroad: Fort Worth, TX

[Carbon Nanotechnologies Inc.](#), 16200 Park Row, Houston, TX 77084. Carbon nanotubes and films.

Celanese Corp., 1601 West LBJ Freeway, Dallas, TX 75234-6034. Chemicals, intermediates, filaments.

CenterPoint Energy: Houston, TX

Central & South West Corp.: Dallas, TX

Central & South West Corp: El Paso, TX

Central Power & Light Company: Corpus Christi, TX

City Public Service: San Antonio, TX

Comanche County Electric Coop Assoc: Comanche, TX

Cooke County Elec Coop Assn: Muenster, TX

CPS Energy: San Antonio, TX

Deaf Smith Elec Coop: Hereford, TX

Denton County Elec Coop: Corinth, TX

Direct Energy: Houston, TX

Eagle Energy: Houston, TX

El Paso Electric Company (EPE): El Paso, TX

Entergy Services Inc./Gulf States Utilities Co.: Beaumont, TX

Entergy Solutions Ltd.: The Woodlands, TX

Erath County Electric Co-op: Stephenville, TX

Fayette Elec Coop: La Grange, TX

First Choice Power: Fort Worth, TX

FPL Energy has developed Horse Hollow Wind Energy Center in Texas – one of the largest wind farms in the world. It has a total capacity of 735 MW. The center is comprised of 291 GE 1.5-MW wind turbines and 130 Siemens 2.3-MW wind turbines. The site is spread over nearly 47,000 acres (19,020 hectares) in Taylor and Nolan County, Texas, near Abilene and Sweetwater in the I-20 corridor. The big project gives FPL Energy more than 1,600 MW of wind power in Texas alone.

GreenHunter Energy Inc., Grapevine, Texas, has announced plans to locate a biodiesel production refinery at Tampa, Fla. The \$70 million project would use vegetable oil as stock for biofuels during initial operations but later may switch to animal fat.

Green Mountain Energy Company: Austin, TX

Greenville Electric Utility System (GEUS): Greenville, TX

GTE: Irving, TX

Guadalupe Valley Elec Coop: Gonzales, TX

HelioVolt has announced plans to site their first plant in the Expo Business Park in Austin. The construction will be financed by a record-breaking \$101 million funding round – one of the largest recorded solar power venture capital launches. The new plant will create more than 150 technical and engineering jobs.

Horizon Wind Energy, Houston, TX

Houston Lighting & Power: Houston, TX

Hunt Power: Dallas, TX

Johnson Cnty Elec Cooperative: Cleburne, TX

Lone Star Gas Co: Dallas, TX

Lone Star Gas Co: Farmers Branch, TX

Lower Colorado River Authority: Austin, TX

Lubbock Power & Light: Lubbock, TX

Lynntech Inc., 7610 Eastmark Dr., College Station, TX 77840. Tel: 979-693-0017. Fuel cells, air filtering and purification systems, water filtering and purification system components

Lynntech Industries Ltd., 3900 State Hwy 6 South, Ste 104, College Station, TX 77845. Tel: 979-693-0017. Fuel cell test systems, direct methanol test kits

Montgomery Energy Partners LP, Houston, TX

Nanospectra Biosciences Inc., 8285 El Rio Street, Suite 150, Houston, TX 77054. Nano-scale optics.

[Nanostructured & Amorphous Materials Inc.](#), 16840 Clay Road, #113, Houston, TX 77084. Manufacturer of nanoscale powders.

Navasota Energy: Magnolia, TX

Oncor: Dallas, TX

Pedernales Elec Cooperative: Johnson City, TX

Reliant Energy Retail Services: Houston, TX

SWEPCO: Texarkana, TX

San Bernard Electric Co-op Inc: Bellville, TX

Sitara Energy Inc.: Houston, TX

South Texas Alliance CO CP&L: Corpus Christi, TX

Southern Union Gas Co.: Austin, TX

Southern Union Gas Co.: Monahans, TX

Southwestern Public Service: Amarillo, TX

[STP Nuclear Operating Company](#), PO Box 289; Wadsworth, TX 77483 operates South Texas nuclear power plant.

Tenaska Power Services, Co.: Arlington, TX

TekSun PV Mfg. Inc., Austin, TX. is building a plant for making amorphous solar panels in Taylor. TekSun has the support of technology giant Applied Materials that employs approximately 14,000 people throughout [Canada](#), [China](#), [Europe](#), [Israel](#), [India](#), [Malaysia](#), [Singapore](#), [Japan](#), South [Korea](#), and [Taiwan](#). The company is currently investing some \$400 million in solar projects in Texas, Spain and Germany.

TXU Electric and Gas: Dallas, TX

Texas Department of Transportation: Austin, TX

Texas Electric Cooperative: Austin, TX

Texas-New Mexico Power Co: Fort Worth, TX

Texas-New Mexico Power Co.: Lewisville, TX

Trina Solar, 13505 Oregon Flat Trail, Austin, TX 78727. A pioneering PV firm based in China. Has installed 39 solar power systems at sites in Tibet.

[TXU](#), PO Box 1002; Glen Rose, TX 76043 operates Comanche Peak nuclear power plant.

Union Pacific Railroad: Spring, TX

West Texas Utilities Company: Clyde, TX

Wharton County Elec Coop Inc.: El Campo, TX

Xcel Energy: Amarillo, TX

Xcel Energy: Lubbock, TX

[Zyvex Inc.](#), Zyvex Instruments. 1321 North Plano Road, Richardson, TX 75081-2426. Nanotechnology development.

### **Utah**

Garkane Energy Power: Loa, UT

Milgro Nurseries, Newcastle. Covering more than 24 acres (9.7 hectares), Milgro Nurseries operates one of the largest geothermally heated greenhouses in the country. Milgro produces potted chrysanthemums, Easter lilies, and poinsettias, but also has large Dutch bulb crops, including irises, tulips, daffodils, hyacinths, and potted calla lilies among others. Milgro's main complex and several other commercial greenhouses at Newcastle, covering a total of more than 26 acres (10.5 hectares), use the geothermal fluid from shallow production wells about 500 feet (152 m) deep.

[Nano Opto](#). Somerset, N.J. & Orem, UT. Densely integrated, modular nano-optic components.

Pacificorp: Salt Lake City, UT

Pacificorp/Utah Power: Salt Lake City, UT

Questar Regulated Service Co: Salt Lake City, UT

Utah Power: Salt Lake City, UT

Utah Power & Light Co.: Salt Lake City, UT

### **Vermont**

Burlington Vermont Electric Department operates the Joseph C. McNeil Generating Station, reported to be the largest U.S. utility-owned, wood-burning power plant.

Central Vermont Public Service: Rutland, VT

Entergy Nuclear, PO Box 157, Governor Hunt Road; Vernon, VT 05354 operates Vermont Yankee nuclear power plant.

Green Mountain Power Corp.: Colchester, VT

Moretown Landfill is launching a program to make electricity from methane gas produced by the rotting trash. Officials say that once the project is online, it will be capable of producing enough electricity to power about 2,600 homes.

Northern Power Systems, 182 Mad River Park, Waitsfield, VT 05673-0999. Tel: (802) 496-2955

Vermont Electric Cooperative: Johnson, VT

## Virginia

AEP (American Electric Power): Roanoke, VA

Babcock & Wilcox Co., 800 Main Street, 4th Floor, Lynchburg, VA 24505. ([BWX Technologies Inc.](#)). Manufacturer of nuclear materials and nuclear reactor components. The company has manufactured more than 200 nuclear steam generators.

Blue Ridge Power Agency: Danville, VA

Central Virginia Electric Coop: Lovingston, VA

Columbia Gas of VA: Chester, VA

Covanta Energy. Operates a waste incinerator in Alexandria, Va. Fuel includes mattresses, campaign signs, broken office furniture, yard waste and trash bags by the thousands. Some 150 trucks from Alexandria, Arlington, the District and from communities in Maryland discard up to 1,500 tons (1,361 metric tons) of garbage a day at the incinerator. All of it is municipal waste.

Dominion East Ohio: Richmond, VA

Dominion Virginia Power: Richmond, VA.

[Dominion](#), PO Box 402; Mineral, VA 23117-0402 operates North Anna and [Surry](#) nuclear power plants.

GridPoint Inc., 2801 Clarendon Blvd. Suite 100, Arlington, VA 22201. Tel: 703-667-7000. GridPoint Protect is a power backup that uses gel-style batteries. Founded in 2003, GridPoint has raised \$18 million from venture capital firms and private investors and now employs a staff of 50.

[Luna Innovations Inc.](#), 2851 Commerce St., Blacksburg, VA 24060. \$2 million grant for bio-defense agent.

[Materials Modification Inc.](#), 2721-D Merrilee Dr., Fairfax, VA 22031. Nanopowder processes in Material Engineering.

Mecklenburg Electric Co-op: Chase City, VA

Mitre Corporation. A public-interest [not-for-profit](#) organization based in [Bedford, Massachusetts](#) and [McLean, VA](#). It manages [federally funded research and development centers](#).

National Rural Electric Cooperative Assn.: Arlington, VA

[Novozymes](#), Salem, Va., a biotech-based company and the world's largest producer of industrial enzymes and microorganisms.

Old Dominion Electric Cooperative: Glen Allen, VA

Rappahannock Electric Cooperative: Fredericksburg, VA

Shenandoah Gas Division: Winchester, VA

VA/MD/DE Assoc of Elec Co-ops: Glen Allen, VA

Virginia Power: What is said to be the world's largest stand-alone wood-fired power plant is located at Hurt, Va. It consumes

sawmill chips, sawdust, tree chips, and shavings.

Washington Gas: Springfield, VA

### **Washington**

[AquaEnergy Group Ltd.](#) Mercer Island, WA. Has been acquired by Finavera Renewables Ltd., 595 Burrard St., Ste 3113, 3 Bentall Centre, PO Box 49071, Vancouver, BC, Canada V7X 1G4. Tel: 1-604-288-9051; Fax 1-604-684-2722.

Avista Corporation: Spokane, WA. Has a power plant at Kettle Falls, Wash., (north of Spokane) burning lumber mill wood wastes from the surrounding sites in Washington and Canada

Benton Rural Electric: Prosser, WA

Cascade Natural Gas Corp: Seattle, WA

Ecolite Manufacturing Co., Spokane Valley, Spokane, WA. With about 200 employees, Ecolite expects revenues of about \$20 million this year. PV components.

[Energy Northwest](#), Richland, WA 99352-0968 operates Columbia nuclear power plant.

[Isotron Corp.](#), 1443 N. Northlake Way, Seattle WA 98103. Nanoparticle composites.

Kimberly-Clark Corporation and Snohomish County Public Utility District have a 43-MW facility at Kimberly-Clark's paper mill in Everett, Wash. Snohomish sells most of the electricity to the Sacramento Municipal Utility District.

[Mohr and Associates Inc.](#), 76 Wellsian Way, Richland, WA 99352-4111. Nuclear and chemical process instrumentation.

Puget Sound Energy: Bellevue, WA

ReliOn, 15913 E. Euclid Ave., Spokane, WA 99216. Tel: 509-228-6500, 1-877-474-1993. [fuel.cells@reliion-inc.com](mailto:fuel.cells@reliion-inc.com). [\\$60 million venture capital funding. Hydrogen fuel cells.](#)

Tacoma Public Utilities operates Steam Plant No. 2, a multi-fueled generating facility located in an industrial area near Puget Sound (Washington).

[Wind Turbine Company](#): 1261 - 120th Avenue NE, Bellevue, WA 98005. Tel 425.637.1470. Fax 425.637.1483.

### **West Virginia**

AEP (American Electric Power Company): Charleston, WV

Bluefield Gas Company: Bluefield, WV

### **Wisconsin**

Alliant Energy - Headquarters: Madison, WI

Dairyland Power Coop: La Crosse, WI

[Dominion](#), N490 Highway 42; Kewaunee, WI 54216-9510 operates Kewaunee and [Point Beach](#) nuclear power plants.

Johnson Controls Inc., Milwaukee, WI. [www.jci.com](http://www.jci.com). [Climate control](#) systems. A global firm with 140,000 employees. Recent new

plant at Nersac, France

[Mad City Labs Inc.](#), 2524 Todd Drive, Madison, WI 53713. Positioning systems with sub-nanometer precision.

Madison Gas & Electric: Madison, WI

Manitowoc Public Utility: Manitowoc, WI

Northern States Power Co: Ashland, WI. Operates the biomass Bay Front Station near Ashland, which consumes wood wastes, old railroad ties and shredded rubber.

WE Energies: Lake Geneva, WI

We Energies: Milwaukee, WI

Wisconsin Electric Power: Milwaukee, WI

Wisconsin Pub Serv Corp: Green Bay, WI

ZBB Energy, N93 W14475 Whittaker Way, Menomonee Falls, WI 53051. Tel: 1 (262) 253-9800. Produces a 540-volt, 500-kW-hour, thermal-controlled battery energy storage system that's easily transported.

### **Wyoming**

Black Hills Power: Gillette, WY

Black Hills Power & Light Co.: Newcastle, WY

High Plains Power: Riverton, WY

Pacific Power & Light: Casper, WY

Wyoming Municipal Power Agency: Lusk, WY

Xcel Energy-Cheyenne Light: Cheyenne, WY

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## **International Projects and Companies**

*(composite list)*

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### **Argentina**

[INVAP](#) (Rio Negro state company for applied research), Bariloche, Argentina. Equipment for the nuclear fuel manufacturing industry

**Australia**

Acciona Energy Oceania Pty Ltd, Level 1, 95 Coventry St., South Melbourne, VIC 3205, Australia

Alta Windpower Development LLC, a subsidiary of Allco Financial Group Inc., of Australia

Babcock & Brown Wind Partners, Sydney, NSW 2000, Australia

BioPower Systems Pty. Ltd: Suite 145, National Innovation Centre, Australian Technology Park, Eveleigh, NSW 1430, Australia. Has \$10 million funding for wave power projects in Tasmania.

Carnegie Corporation Ltd: 35 Outram Street, 2nd Floor, Western Australia, West Perth 6005, Australia. Tel: 61/08 9321-6881. Has received \$15 million funding to develop its CETO wave energy.

[Energy Resources of Australia Ltd.](#), Level 10, TIO Centre, 24 Mitchell Street, GPO Box 2394, Darwin 0801, NT, Australia. Exports uranium oxide to nuclear utilities in Asia, Europe and North America.

Neptune Marine Services Ltd, Level 16, 140 St Georges Tce, Perth, Western Australia, Australia 6000, Tel: +61 (0)8 9424 1111, Fax: +61 (0)8 9424 1110. Email: [info@neptunems.com](mailto:info@neptunems.com). Acquired Aberdeen-based Ross Deeptech Initiatives Ltd.

Novera Energy: Level 5, The Johnson's Building, 225 George Street, Sydney, Australia 2000. Tel: +61 (0)2 9240 2700

Oceanlinx Inc . (formerly Energetech Australia Pty Ltd) ([www.oceanlinx.com](http://www.oceanlinx.com)): PO Box 116, Botany, NSW 1455, Australia. Tel: 61 2 9549 6300; Fax: 61 2 9549 6399. Developed the Energetech Wave Energy System, a shoreline device. Oceanlinx has projects under development in Australia at Port Kembla in New South Wales, Portland in Victoria, and King Island in Tasmania; and internationally in Rhode Island and Hawaii in the U.S.; South Africa; Mexico; and the U.K.

Seapower Pacific Pty Ltd, Level 1/, 16 Ord St, West Perth, WA 6005, Australia. Australian subsidiary of Renewable Energy Holdings Ltd (UK). Seapower is the designer and developer of the CETO renewable wave energy converter, which delivers high pressure sea water to shore for power generation and desalination. It is undergoing tests at Freemantle, Western Australia. [www.seapowerpacific.com](http://www.seapowerpacific.com)

Solar Systems, 322 Burwood Road, Hawthorn, Victoria 3122, Australia. +61 3 8862 8100

**Austria**

GuglerWater Turbines: Schaunberg Str.23. 4081, Hartkirchen, [Austria](#)

**Belarus**

[Atomtex](#), 5 Gikalo Street, Minsk 220005, Republic of Belarus. Manufacturer of instruments and equipment for nuclear measurements and radiation monitoring.

[Isotope Technologies](#). 99, Krasin str., Minsk-Sosny, 220109 Belarus. Manufacturer of radiation devices and exporter of radionuclide products.

**Belgium**

[Belgonucleaire](#) S.A. 4, avenue Ariane, B-1200 Bruxelles, Belgium. Manufacturer of mixed oxide fuel (MOX) for nuclear power plants.

Electrabel, Brussels, Belgium. Operates nuclear plants Doel and Tihange.

Nanocyl S.A. (Headquarters) Rue de l' Essor, 4 B-5060 Sambreville, Belgium. Produces carbon nanotubes.

Photovoltech [NV SA](#). Grijpenlaan 18, 3300 Tienen, Belgium. Tel: 32 1 6805-850

SEEWEC Consortium (Sustainable Economically Efficient Wave Energy Converter). [www.seewec.org](http://www.seewec.org). Eleven participants from six European nations. Developing "FO3" floating wave energy converter previously known as "Buldra." Consortium Coordinator: Ghent University, Sint-Pietersnieuwstraat 25, B-9000 Ghent, Belgium. [www.UGent.be](http://www.UGent.be). Tel. +32 9 264 31 11.

### **Brazil**

Eletronuclear. Rua da Candelária, 65 – Centro, CEP: 20091-906. Brazil. Operates nuclear plants.

[Heliodinâmica](#). Rodovia Raposo Tavares km 41, Vargem Grande Paulista - CEP 06730-970, Caixa Postal 111, São Paulo, Brasil. Tel: 11 4158-3511

[NUCLEP](#) (Nuclebras Equipamentos Pesados) SA, Brazil. Makes heavy components for Brazilian nuclear power plants.

### **Bulgaria**

Monbat Industries, 102 Bulgaria Blvd., BC Belisimo, Floor 7, 1680 Sofia, Bulgaria. Tel: (+359 2) 962 11 50. [Monbat PLC](#). PO Box 149, ul Industrialna 76, Montana, Bulgaria. Tel: 359 096 393 101, [www.monbat.com](http://www.monbat.com). Subsidiary of Texaco Chevron. Storage battery mfg.

### **Canada**

AAER Inc., 80, boulevard de l'Aéroport, Bromont, Québec, Canada J2L 1S9. Tel: +1.450. 534.5155. Electrical components.

Advanced Measurements Inc., 6205-10th Street SE, Calgary, AB Canada T2H 2Z9. Tel: 877-571-7273. Fuel cell systems

Adventis Technologies, 77 King Street West, TDC 1015, Toronto, Ontario Canada M5K 1P2. Tel: 905-901-4791. Hydrogen fuel generators

Aluminum Power Inc., 907 Alness St., Toronto, Ontario, Canada M3G2N. 2416-661-6614. Aluminum air fuel cells

Annapolis Royale tidal power plant. The first such plant in North America was developed on the Bay of Fundy in Nova Scotia. I visited that plant soon after it opened in the 1980s. The first large-scale tidal power plant was built at La Rance in France some 40 years ago and has performed well.

Arise Technologies, 65 Northland Road Waterloo, Ontario N2V 1Y8, Canada. 1-877-274-7383. Produces PV solar cells.

[Atomic Energy of Canada Ltd., Sheridan Park, 2251 Speakman Drive, Mississauga, Ontario, Canada L5K 1B2](#). Manufacturer of nuclear power reactors.

Axion Power International Inc. 100 Caster Avenue, Woodbridge, ON L4L 5Y9, Canada. Tel: (905) 264 1991. E-mail: [info@axionpower.com](mailto:info@axionpower.com). Developing what it calls a "hybrid energy storage device" with the characteristics of both batteries and supercapacitors.

Ballard Power Systems, 9000 Glenlyon Parkway, Burnaby, BC, Canada V5J 5J9. Tel: 604-454-0900. Proton exchange membrane (PEM) fuel cells

Blue Energy Canada Inc: 1950 West Broadway, Vancouver, B.C. V6J5C2. Developing the "Blue Energy Ocean Turbine."

Bluerock Resources Ltd., Nanaimo, BC, Canada. Uranium mining.

Cameco Corp., Saskatoon, Saskatchewan, Canada. The world's largest publicly traded uranium company.

Canoe Pass Tidal Energy Corporation. Campbell River, B.C., Canada. Developing tidal-current energy project in Canoe Pass, which runs between Quadra and Maude islands on B.C. coast – in cooperation with a Calgary-based company called New Energy Corporation Inc. and Focus Environmental.

[Canrom Photovoltaics Inc.](#), 108 Aikman Avenue, Hamilton, Ontario L8M 1P9, Canada. Tel: 1 905 526 7634.

[Clark Machine Inc.](#) 423 Glendale Ave., St. Catharines, ON, Canada l2v 4b9. Tel: 905-227-5233. FAX: 905-227-8493

Clean Current Power Systems Inc.: 405 - 750 West Pender St., Vancouver, British Columbia, Canada V6C 2T7. Tel: (604) 602-1222. Manufacturer of turbines for tidal energy systems.

[Denison Mines Corp.](#), Atrium on Bay, 595 Bay Street, Suite 402, Toronto, ON M5G 2C2, Canada. Uranium exploration, mining, and milling.

Entegrity Wind Systems Inc., P.O. Box 832, Charlottetown, PE Canada C1A 7L9. Tel: 902-368-7171

Finavera Renewables Inc: 595 Burrard Street, Suite 3113, PO Box 49071, Vancouver, BC V7X 1G4, Canada. Tel: 1-604-288-9051; Fax 1-604-684-2722. Has started wave projects in Washington State and Oregon as well as Portugal, Canada and South Africa.

Fuel Cell Technologies, 20 Binnington Court, Kingston, ON Canada K7M 8S3. Tel: 613-544-8222. Fuel cell systems, fuel cell system components, solid oxide fuel cell power systems (SOFC)

Hydrogenics Corporation, 5985 McLaughlin Rd., Mississauga, ON Canada L5R 1B8. Tel: (905) 361-3639. PEM fuel cell power products, 4-16 kW electrolyzer-based hydrogen station products

[ICP Solar Technologies Inc.](#), 6995 Jeanne-Mance Montreal, Quebec H3N 1W5, Canada. Tel: 1 514 270 5770

[IE Power Inc.](#), 4170 Sladeview Crescent, Unit 1, Mississauga, ON L5L 0A1, Canada. Tel: (905) 813-8900. Designs and manufactures DC and AC power converters in power ranges up to tens of megawatts. E-mail: [iepower@iepower.com](mailto:iepower@iepower.com).

InfoMine Inc., Suite 640, 580 Hornby Street, Vancouver BC, Canada V6C 3B6. Uranium.

Magenn Power Inc. 18 Monet Court, Ottawa, Ontario, Canada K1T4B6. Tel: 613-733-8488.

[Nanoledge](#). A firm of French origin now located in Canada. Produces resins that incorporate nanoparticles into composites.

New Energy Corporation Inc.: 3553 – 31st Street NW, Suite 473, Calgary, AB T2L 2K7, Canada. Tel: (403) 260-5248. [Vertical-axis turbine for underwater use](#).

Nexia Biotechnologies Ltd., P.O. Box 187, Branch Jean-Talon, Montreal, Quebec, Canada H1S 2Z2. Manufacturer of recombinant proteins for medical and industrial applications.

[Numet Engineering Ltd.](#), Peterborough, ON, Canada. Manufactures nuclear decontamination systems.

Palcan Fuel Cell Co. Ltd., 1152-4250 Wesbrook Mall, Vancouver, BC Canada V6T1W5. Tel: 604 288-7822. Power generators and metal hydride storage systems.

Phostech Lithium Inc., 6721, rue Beaubien Est, Montreal, QE H1M 3B2 Canada. Is devising a new form of lithium-iron phosphate

(LiFePO<sub>4</sub>) for use in the manufacture of cathodes. An affiliate of German firm Süd-Chemie AG. Recent \$35 million expansion

Pivotal Power, 150 Bluewater Road, Bedford, NS Canada B4B 1G9. Tel: (902) 835-7268. Backup power systems, DC-to-DC power converters, DC-to-AC power inverters, fuel cell systems.

SyncWave Energy Inc.: Box 459, 1422 Collins Rd., Pemberton, BC, Canada V0N 2L0. The SyncWave™ Power Resonator technology is undergoing prototyping in preparation for commercialization.

[Viva Solar Inc.](#), P.O. Box 53004, 10 Royal Orchard Blvd, Thornhill Ontario L3T 7R9, Canada. E-mail:

VRB Power Systems Inc. Suite 200, 13955 Bridgeport Road, Richmond, BC V6V 1J6 Canada. Tel: (604) 247-3300. Producer of Vanadium Redox Battery Energy Storage System

## **China**

[Boading Yingli](#). No. 3055, Fuxing Middle Road, National New & High-tech Industrial Development Zone, Baoding, China. Pos: 071000. Tel: 86 312 3100509. PV materials.

[Chengyin Technology](#) (China) Co. Ltd., No. 6, Donghuan Road, Huangniupu, Shenzhen, China. Nano-structured titanium dioxide in sunscreen.

China Biotech Holdings Limited, China Merchants Zhangzhou Development Zone. Manufactures PV solar thin film base plates.

[China Electric Equipment Group](#). [Zhongdian Avenue, Yangzhong, China](#). Tel: 0086-25-83275370. E-mail: [leo@ceeg.com](mailto:leo@ceeg.com); [one of China's largest producers of PV components](#). The CEEG consists of several subsidiary companies, namely, Jiangsu CEEG Electrical Equipment Manufacturing Co Ltd, Jiangsu CEEG Electrical Transmission and Distribution Equipment Co. Ltd., Jiangsu CEEG Transformer Manufacturing Co. Ltd., Shanghai DuPont Electrical Equipment manufacturing Co. Ltd., Jiangsu East China Microwave Instrument Co. Ltd., and CEEG Shenyang Institute.

China National Nuclear Corp., P.O. Box 2102, Beijing 100822, China.

[China Sunenergy](#), No. 123, Fochengxilu, Nanjing Jiangning Economic & Technical Development Zone, China, PC: 211100. Tel: +86-25-52766688. E-mail: [info@chinasunenergy.com](mailto:info@chinasunenergy.com)

CSR Zhuzhou Electric Locomotive Research Institute (ZELRI), China, ordered 20 turbines and core components for 1.65 MW of wind turbines.

De Li Power Industries Ltd: Lian-Hu 2nd Industrial Park, Tang-Xia Town, Dong-Guan 523712, Guang-Dong Province, China, 523712. Energy system components.

Dongfang Steam Turbine Works: China. Electrical systems for Windtec's 2.5-MW turbine design.

[Eopply New Energy Technology Co Ltd.](#), No. 8, West Hainan Rd., Hainan, Jiangsu 226611, China. Tel: 86 88782787. Solar.

ET Solar Group. ET Solar China. 24F, A2 World Trade Center, Mansion 67 Shanxi Rd., Nanjing 210009, China. 86 25 8689-8096, 8689-8098, [sales@etsolar.com](mailto:sales@etsolar.com). ET Solar US, 4900 Hopyard Road, Suite 290 Pleasanton, CA 94588, (925) 4609898. [sales@etsolar.us](mailto:sales@etsolar.us)

Evergreen Power Limited. 14-16 Hillwood Road, Suite 7-B, Tsim Sha Tsui, Hong Kong, China 00001. Tel 852 9673 6227. Photovoltaic modules.

Frontway Enterprise Co. Gong Gang Mission, 16 Fuzhou South Road, Qingdao 266071, China. (+86) 532 - 8597 1349.

[www.supesolar.com](http://www.supesolar.com).

Goldwind Science & Technology Co.: China. China's biggest maker of wind power generation equipment.

Green Energy. See Yingli.

Huamei PV Company. No.86 Jianguolu, Qinhuangdao, Hebei, China 066000, Tel: 86 335-3035394.

Jiangsu Huayang Solar Energy Co. Ltd, [JingAo Solar Co. Ltd.](#), JingLong Industrial Park, JingLong Street, NingJin County, Xingtai, Hebei, China 055550. Tel: 86 319 580 0751

Jinfeng Golden Wind, China

Kaifeng Solar Cell Factory. No.45 Xinhua Dongjie, Kaifeng, Henan, China 475000, Tel: 86 378 597722

LDK Solar Co. Ltd., Hi-Tech Industrial Park, Xinyu City, Jiangxi province, China. U.S. office in Sunnyvale, California. IPO \$300 million to finance two polysilicon plants currently under construction in China.

Ningbo Solar Energy Power Co., Zhou Fuuzhang, 315012 No 80 Qiafengjie, Ningbo, Zhejiang, China. Tel: 91 44 4836 351

Oriental Turbine Factory, China

Perlight Solar Co. Ltd., Wenling, Zhejiang, China.

Polar Photovoltaics, 268 Tanghe Road, Bengbu, Anhui 233030, China. Tel: 86 552 3178212

ReneSola Ltd.: No. 8, Baoqun Rd., Yaozhuang Industrial Zone, Jiashan County, Zhejiang Province, Zip Code: 314117, China. [www.renesola.com](http://www.renesola.com). Tel: 86 573 84773058; Fax: 86 573 84773063. A leading manufacturer of silicon wafers for the photovoltaic industry.

ReneSola. Shanghai, China. Raised \$130 million in a stock offering on the New York Stock Exchange.

Renewable Energy House: A15, G/F, Fortune Plaza, 4 On Chee Road, Tai Po, Hong Kong, China. Tel: (852) 2717-5814

[Shenzhen Topray Solar Co Ltd.](#), 6th Floor, 2nd Block, Yuezhong Industrial Area, Zhuzilin, Futian Shenzhen, Guangdong, China 518040. Tel: 86 755 3709226

Sky Solar International Co. Ltd., Hong Kong, China.

Solarfun. 666 Linyang Road, Qidong, Jiangsu Province, China 226200; [sales@solarfun.com.cn](mailto:sales@solarfun.com.cn)

Solarfun Power Holdings Co. Ltd., [Solarfun Power](#). 218 Wusong Road, BM Tower, 26th Floor, Shanghai, China 200080. Tel: 0086 21 6307 0222

[Suneco Green Energy Co. Ltd.](#): No. 7 Jinan Road, Dongying, Shandong, China 257000.

Suntech Power Holdings Co. Ltd., 17-6 ChangJiang South Road, New District Wuxi, China 214028. Tel: 86 510 5345000. E-mail: [sales@suntech-power.com](mailto:sales@suntech-power.com). One of China's leading entrepreneurial businesses in the renewable energy field. The world's third largest maker of solar cells.

Tianjin Highland Energy Technology Development Co. Ltd. 3rd Floor, No. 80, 4th Street, TEDA, Tianjin, China 300457. Tel: ++86-22-66211073. Metal hydride hydrogen storage tanks and gauges.

[Tianjin Jinneng Solar Cell Co. Ltd.](#), Tianjin High Tech Industrial Park, Chinese Catalpa Park Road 20, Tianjin, 300384 PR China. Tel: 86 022 23078366. E-mail: postmaster@jns.cn

Topray Solar Co. Ltd., Shenzhen, China. Raised about \$60 million in its IPO. Chinese investors.

Yingli Green Energy, No. 3055 Fuxing Middle Rd., National New & High-Tech Industrial Development Zone, Baoding, China P.C.: 071051. Tel: (86) 312-892 9700. One of the largest manufacturers of PV products in China. E-mail: [yingli@yinglisolar.com](mailto:yingli@yinglisolar.com)

[Yunnan Semiconductor](#), Jianshe Road, 295 Kunming, Yunnan, China. Tel: 86 871 538 9169. E-mail: greenstar@km169.net

Zhejiang Sunflower Light Energy Science & Technology Co. Ltd., Zhanjiang Road, Paoting Industrial Zone, Shoaling, Zhejiang, China. E-mail: yujing2062@163.com

### **Croatia**

[Solar Cells \(formerly Koncar Solar Cells\)](#), Tezacki put BB, 21000, Split, Croatia. Tel: 385 21 374 510

### **Czech Republic**

Ceske Energeticke Zavody. The major power provider in the Czech Republic.

[DIAMO s.p.](#), Máchova 201 Stráž pod Ralskem 471 27, Czech Republic. Mining.

[Skoda JS a.s.](#) Orlik 266, CZ-31606 Plzen, Czech Republic. Manufacturer of equipment for nuclear power plants and spent fuel casks.

Solartec s.r.o., 1 Máje 1000/M3, CZ- 756 64 Roznov pod Radhostem 3, Czech Republic, E-mail: solartec@solartec.cz

### **Denmark**

A/S Wincon West Wind: Hedemolle Erhvervsvej 4 DK-8850, Bjerringbro, Denmark. Tel: +45 8668 1700.

Bonus Energy A/S: Brande, Denmark. Mfr. of wind turbines. Has been acquired by Siemens Power Generation (Erlangen, Germany).

Dong Energy, Denmark

[EMU Consult, Copenhagen, Denmark. Developing "Wave Dragon"](#) floating offshore wave energy converter, invented by Danish engineer Erik Friis-Madsen.

[LM Glasfiber A/S](#): Rolles Mollevej 1, Lunderskov, Denmark 6640. Tel: +45 79 84 00 00.

NEG Micon. Merged with Vestas. Denmark.

[Nordex Energy GmbH](#): C.F. Tietgens Vej 10, 6000 Kolding, Denmark. Tel: ++45 - 75 73 44 00.

SeWave Ltd.: Landavegur 92, Box 195, FO-110 Torshavn, Faeroe Islands. Tel: (+298) 31 10 86; Mobile: (+298) 22 39 78. Email: [og@sewave.fo](mailto:og@sewave.fo). Website: [www.sewave.fo](http://www.sewave.fo). SEV and Wavegen have founded this joint venture to develop a wave energy plant in the Faeroe Islands

Siemens Westinghouse Power Corp. offices in Orlando, FL, Siemens Power Generation, Erlangen, Germany. Siemens Wind Power, (Bonus) Borupvej 16, 7330 Brande, Denmark. Tel: +45 99 42 22 22.

[Vestas Wind Systems A/S](#): Alsvej 21, 8900 Randers, Denmark. Tel: +45 97 30 00 00. Vestas employs over 13,500 people

worldwide. The company has installed more than 33,500 wind turbines in 63 countries and five continents. Vestas has production facilities in Denmark, Germany, China, India, Italy, UK, Spain, Sweden, Norway and Australia and in Colorado.

### **Finland**

AW-Energy, AW-Energy Oy: Lars Sonckin kaari 16 (Terra Building), FI-02600, Espoo, Finland. Tel/Fax: +358 9 7262404. Developer of "WaveRoller."

[Winwind Oy](#): Kaarnatie 38, Oulu, Finland 90530. Tel +358 20 7410 160.

### **France**

Aquitaine Aérogénérateurs: 25, rue St Exupery, Moullets, Gironde, France 33350. Tel: 0557402126

AREVA, 33, rue La Fayette, 75 442 Paris Cedex 09, France. A world leader in uranium mining, conversion and enrichment through spent fuel reprocessing. [AREVA NP](#). The [La Hague Reprocessing Plant](#) treats spent nuclear fuel from [France](#), [Japan](#), [Germany](#), [Belgium](#), [Switzerland](#), [Italy](#) and The [Netherlands](#). SGN is an AREVA nuclear engineering subsidiary. [Cogema](#), (See AREVA, France)

Compagnie Nationale du Rhone, 2 rue Andre Bonin, 69316 Lyon, Cedex 04, France. Develops hydroelectricity from the Rhone and its riparian areas between Switzerland and the Mediterranean. 1,000+ employees.

Electricite de France, 22-30 Ave. de Wagram, Paris 75382, France. State-owned utility serving France.

[Eoltec SAS](#): 455 promenade des Anglais, Porte de l'Arenas, Hall C, Nice Cedex 3, Alpes Maritimes France 06299. Tel 00 33 (0)6 85 30 35 05.

Eurodif, SA. 4, rue Paul Dautier, BP 35, F-78142 Vélizy-Villacoublay, France.

[Free Energy Europe](#). 2, Rue Leon Droux, BP 66, 62302 Lens Cedex, France. Tel: 33 03 21 79 30 60. Solar.

La Rance. The first large-scale tidal power plant was built at La Rance in France some 40 years ago and has performed well.

Photowatt International SA, 33, rue St Honore, ZI Champfleuri, 38300 Bourgoin, Jallieu, France. Tel: 33 (0)474 93 80 20

Saft (Safety Insurance Group, Inc). 12, rue Sadi Carnot, 93170 Bagnolet, France. Tel.: +33 (0)1 49 93 19 18. Li-ion batteries for Galileo mission with the launch of the GIOVE-B experimental satellite

[Sogefibre](#) - Valognes, Normandy, France. Manufacturer of fiber-reinforced concrete containers used for nuclear waste storage.

[Solems SA](#). 3, rue Léon, Blum Zone d' Activité "Les Glaises" 91124 Palaiseau Cedex, France. Tel: 33 1 69 19 43 40. E-mail: info@solems.com.

### **Germany**

Avancis. Shell Erneuerbare Energien GmbH and Saint-Gobain Glass Deutschland GmbH, recently announced plans to join forces and create Avancis – an entity that will develop, produce and market next generation solar technology based on Shell's advanced Copper-Indium-Selenium (CIS) thin-film deposited on glass.

EnBW Kraftwerke Energie, Baden-Württemberg AG 2008. Germany.

[Enercon GmbH Intl.](#): Otto-Lilienthal-Str. 25, D- 28199 Bremen, Germany. Tel: +49 / 421 / 244 15 20. Production facilities also in

India and Brazil.

E.ON Kernkraft, Hannover, Germany. Europe's largest private-sector energy firm.

ErSol Solar Energy AG. Wilhelm-Wolff-Str. 23 99099 Erfurt, Germany. Tel: 49 3 61 4 42 46 – 0.

EU Energy Wind Ltd: Seelandstr. 1, Luebeck, Schleswig-Holstein, Germany 23569. Tel: +49 451 3073 108.

[ItN Nanovation GmbH](#), Untertuerkheimer Strasse 25, Saarbrücken 66117, Germany. Nanoscaled particles and ceramic parts based on nanoparticles.

Flabeg GmbH & Co. KG. Waldaustraße 13, 90441 Nürnberg, Germany. +49 (0)911 - 96 456-245. A leading manufacturer of high-precision solar mirrors. Flabeg developed a measurement process in cooperation with MAN as part of the "Ariane" aerospace program.

[Flagsol GmbH](#). Agrippinawerft, 22, 50678 Köln, Germany. [www.flagsol.com](http://www.flagsol.com) . A pioneering developer of parabolic trough collectors. Large projects in California.

[Fuhrländer Aktiengesellschaft](#): Auf der Hohe 4, Waigandshain, Westerwald Germany D-56477. Tel: +49 (0) 26 64 - 99 66 – 0.

Heliocentris Fuel Cells AG. Rudower Chaussee 29, Berlin, 12489, Germany. Tel: +49-306-392-6325. A leading system integrator for fuel cells and Ovonic Hydrogen Systems, a subsidiary of Energy Conversion Devices Inc., has signed a sales agreement for hydrogen storage systems.

IBC Solar AG, Am Hochgericht 10, 96231 Bad Staffelstein, Germany. Tel: +49 9573 9224-0

Juwi Solar GmbH, Bolanden, Rhineland-Palatinate, Germany. Has developed more than 600 photovoltaic power plants with a total capacity of 80 MW. Partner of DayStar U.S. using photovoltaic products based on copper indium gallium selenide, or CIGS, thin-film semiconductor technology.

[Nordex Energy GmbH](#): Bornbarch 2, 22848 Norderstedt, Germany. Tel (+49) 40 500 98 100.

Phocos AG. Eberhard-Finckh-Strasse 10, Ulm, Germany D-89075. Tel: +49 (731) 940 20 88-0. Solar battery charge controllers, fuel cell systems

[Q-Cells AG](#). Guardian str.16, D-06766 Thalheim, Germany. Tel: 49 3494 66 86-0. The world's second largest cell manufacturer

[REpower Systems AG](#): Alsterkrugchaussee 378, D-22335 Hamburg, Germany. Tel: +49 / (0)40/ 539307-0.

Schott AG: German solar energy firm Schott AG says that it will build a new plant in the Mesa del Sol area near Albuquerque, NM, to produce both photovoltaic (PV) modules and receivers for concentrated solar thermal power plants (CSP). Schott will invest approximately \$100 million to start. That will include a 200,000-sq.-ft. (18,581-sq.-m.) facility that will employ 350 people. Plans call for expansion to 800,000 sq. ft. (74,322 sq. m) with 1,500 employees and an investment up to \$500 million by 2012.

[Schott Solar Industrie](#). straÙe 13, Alzenau, Germany D 63755. Tel: 49 (0)6023 91-17 12. One of the world's largest producers of solar photovoltaic technologies. Schott employs over 900 people and has worldwide production capacity of over 130 MW.

Siemens AG, Munich, Germany, is Europe's largest engineering [conglomerate](#) with 6 major divisions. Makes and services nuclear power plants, both pressurized water reactors and boiling water reactors. Siemens Energy & Automation Inc. is headquartered in the Atlanta suburb of Alpharetta, GA.

[SolarWorld AG](#). Kurt-Schumacher-Str. 12-14, 53113 Bonn, Germany. Tel: 49 - (0) 228 / 55 92 00

SolarWorld Industries America, headquartered in Bonn, Germany, purchased Shell Solar's crystalline silicon activities in 2006.

[Sunways AG](#), Macairestr. 3-5, 78467 Konstanz, Germany. Tel: 49 7531 99677-0

Südwind Energy GmbH: Centroallee 265, 46047 Oberhausen, Germany D-13507. Tel: ++49-208-8241-0.

Wurth Solar, Ludwigsburger Strasse 100, 71672 Marbach an Neckar, Germany.

E-mail: [wuerth.solar@we-online.de](mailto:wuerth.solar@we-online.de)

Zoxy Energy Systems AG. Carl-Benz-Str. 2, Bretten, Germany 75015. Tel: +49 7252 9631-0. Zinc-air energy cells

### **Greece**

[Daedalus Informatics Ltd: Ikarias 22, Glyfada, Athens, Greece. Hybrid wave and wind system.](#)

[Heliodomi S.A.](#), P.O. Box 60212, Themi 57001, Thessaloniki, Greece. Tel: 30 310 469 140.

Lion Energy S.A.: 7A Pedelis Avenue, Athens, Greece 15235. Hydroelectric turbines.

Tropical S.A. 98 Kifisou Avenue, Peristeri, Athens, Greece 121 32. Tel: +30 210 578-5455. Hydrogen fuel cell systems (100 W to 20 kW)

### **India**

Amara Raja Batteries Ltd. Tirupati, India. A large manufacturer of Standby Valve Regulated Lead Acid (VRLA) batteries.

[Bharat Electronics Limited](#), 2nd Floor S.N. Bldg, 25 M.G. Road, Bangalore - 560 001, India. Tel: 91 80 5595729. PV components.

[Bharat Heavy Electricals Limited](#). Integrated Office Complex, Lodhi Road, New Delhi -110003, India. Tel: 91 11 51793242.

[Central Electronics Limited](#), 4 Industrial Area, Ghaziabad, 201 010, Sahibabad, India, Tel: 91 120 2895165. PV materials.

Comco. Anurag, Shivram Soc. Devidayal Rd., Mulund-W., Mumbai, Maharashtra, India 400080. Tel: 91-982-184-6299. Battery chargers, DC to DC power converters, fuel cell systems

Daversen Hydro Power Inc: Redcross Bhavan, 2nd Floor, The Mall, Ludhiana, Punjab 141001, India.

[Maharishi Solar Technology Pvt. Ltd.](#), A-14, Mohan Co-operative Industrial Estate, Mathura Road, New Delhi-110 044, India. Tel: 91 11 6959701

Manu Energy Systems Pvt. Ltd, 49-53-7/13, Sampada Galaxy, B.S. Layout, Visakhapatnam, Andhra Pradesh, India 530013. Tel: +91 891 2503895; +98480 29091. Fuel cell systems

[Mosier Baer Photovoltaic](#). 43 B, Okhla Industrial Estate, New Delhi 110020, India. Tel: 9141635201

Nagalaxmi Industries: 2E3, Dyavasandra Industrial Area, Mahadevapura P O, Bangalore, Karnataka, India 560048. Tel: 91 - 80 - 8510888, 8511086

Natural Energy Processing Co. (NEPC): 36, Wallajah Road, 600 002 Madras, India

Pentafour Solec Technology Limited (licensee of Solec International), Chitra Towers, 332-2 Arcot Road, Kodambakkam, Chennai 600 024, India. Tel: 86 574 712 1761

[Shriram](#): Leitner Shriram Manufacturing Ltd, a joint venture between Shriram EPC and Dutch firm Leitwind BV. The \$50 million

venture will manufacture 1.5-MW wind turbines in its Gummidipoondi plant near Chennai, India.

[Tata/BP Solar](#) (JV between BP Solar/Tata), #78, Electronic City, Hosur Road, Bangalore, 560 100 India. E-mail: tata@tatabp.com

[Udhaya Semiconductors Ltd.](#), 1/482, Avanashi Road, Neelambur, Coimbatore 641 014, India. E-mail: udaya@uslsolar.com

Udhaya Energy Photovoltaics Pvt Ltd (UPV Solar), 1/279Z Mudalipalayam, Arasur Post, Coimbatore, Tamil Nadu 641 407. India. +914222361170. [info@upvsolar.com](mailto:info@upvsolar.com). Has new plant at Mudalipalayam, about nine miles (15 km) east of Coimbatore.

[Usha India Ltd.](#), 12/1, Mathura Road Faridabad Haryana, 121 003, India. E-mail: sales@uslsolar.com

USL Photovoltaics Private Ltd., 1/473 Avinashi Road, Neeambur, Coimbatore - 641 014, Tamil Nadu, India. Tel: 91 422 2627 851

UPV Solar, Coimbatore, Tamil Nadu, India

West Bengal Electronics Industry Development Corporation Limited (Webel SL Solar), Plot No. NI, Block GP, Sector V, Salt Lake Electronics Complex, Kolkata - 700 091, India. Tel: 91 33 2357 8840. E-mail: info@webelsolar.com

### **Iran**

Saba Niroo Co.: P.O. Box 33315/187, Shohada-ye-Sadid St., 9th Km of Saveh Road, Tehran 3319973416, Tehran, Iran. Tel: +98 (21) 5525 6136-7.

### **Ireland**

Airtricity, Ireland

Elan Corporation, Dublin, Ireland. [Nanocrystal Technology](#). Manufactures drug delivery solutions offering enhanced absorption rates and bioavailability.

[Hydam Technology Ltd: 1, Bishops Court, New Street, Killarney, County Kerry, Ireland. U.S. Tel: \(353\) 6434 624. Developer of the "McCabe Wave Pump,"](#) a three-barge, floating wave-energy conversion unit for supplying potable water and for irrigation purposes in remote communities.

[Open Hydro: 66 Fitzwilliam Square, Dublin 2, Ireland.](#) Firm has developed Open-Centre Turbine technology that is operating at the European Marine Energy Centre in Orkney, Scotland. Nova Scotia Power, an Emera Inc. company, selected Open Hydro's Open-Centre Turbine in 2007 for a tidal energy project in the Bay of Fundy.

Wind Concepts Ltd: 16 Briarhill Business Park, Ballybrit, Galway, Ireland. Tel +353-(0)91-700077.

### **Israel**

SDE Wave Energy Ltd: 15A Lubetkin St., Tel Aviv, Israel 67532. Tel: 03-7397107. Technology for producing energy from sea waves in conjunction with desalination.

Solel. The Israeli company has helped to build and maintain the largest commercial solar power plant in California.

[Solmecs \(Israel\) Ltd](#), Omer Industrial Park, P.O. Box 3026, Omer 84965, Israel. Tel: 972 7 6900950. E-mail: michael@solmecs.co.il

### **Italy**

[Ansaldo Nucleare](#). Corso Perrone 25 – 16161 Genova, Italy. Builds nuclear power plants.

Falck Group, Milan, Italy

[Helios Technology srl](#), Via Postumia 11, 35010 Carmignano di Brenta (PD), Italy

### **Japan**

[Canon Inc.](#), E Business Division. 3-30-2, Shimo-Maruko, Ohta-ku, Tokyo 146-8501, Japan. PV systems.

Chubu Electric Power Co., 1 Higashi-shincho, Higashi-ku, Nagoya 461-8680, Japan.

Chugoku Electric Power Co. Inc, 4-33, Komachi Naka-ku, Hiroshima 730-91, Japan.

Fuji, 2-2-1 Nagasaka Yokosuka, Chiyoda-ku, 240-01, Kanagawa, Japan Tel: 81 46 857 67 30 PV.

Hitachi, HQ, Marunouchi It chome, [Chiyoda, Tokyo, Japan](#). A global firm with 6 corporate laboratories.

Hokkaido Electric Power Co. Inc., 2, Higashi 1-chome, Ohdori, Chuo-ku Sapporo, Hokkaido 060 8677, Japan.

[Ishikawajima-Harima Heavy Industries Co. Ltd](#) , Tokyo, Japan. Primary components for nuclear power plants.

[Kaneka Corp.](#), 3-2-4, Nakanoshima, Kita-ku, Osaka 530-8288, Japan. Tel: 81 6 6226 5237. PV products.

Kyocera Corp (Solar [Energy Division](#)). Headquarters Building, 6 Takeda Tobadono-cho, Fushimi-ku, Kyoto 612-8501, Japan. Tel: 380 (44) 205 34 50. [Kyocera Solar Inc., \(US Division\)](#). 7812 East Acoma, Scottsdale, Arizona 85260, Tel: 1 480 948 8003. [Kyocera](#) has announced plans to reinforce production bases in Japan, the U.S., Europe and China, investing a total of about \$307 million through FY2010.

[Matsushita Battery Industrial Co](#). Photovoltaic Division, 1-1 Matshushita-cho, Moriguchi-shi, 570-8511, Osaka, Japan. Tel: 81 (0)6 6991 1141

[Matsushita Seiko Co Ltd.](#), 4017, Shimonakata, Takaki-cho, Kasugai, Aichi, 486-8522, Japan. Tel: 81 0568 81 1511. Solar.

[Mitsubishi Electric Corp.](#), Mitsubishi Denki Building 2-2-3, Marunouchi, Chiyoda-ku, Tokyo 100-8310, Japan. Tel: 81-3-3218-2111. PV. [Mitsubishi Heavy Industries](#) (Power Systems Division) 5-1 Marunouchi 2-Chome, Chiyoda-ku, Tokyo 100-8315, Japan. Tel: 81 (0)3 3212 9408. Panasonic (formerly Matsushita Electric Industrial Co. Ltd). A large [electronics](#) manufacturer based in Kadoma, [Osaka Prefecture, Japan](#). [Mitsubishi Heavy Industries Ltd](#) , 16-5, Kounan 2-chome, Minato, Tokyo 108-8125, [Japan](#). One of the world's leading manufacturers of heavy machinery including a number of nuclear power plants.

[Sanyo Electric Co Ltd.: Soft Energy Co., Business HQ](#). 222-1, Kaminaizen, Sumoto City, Hyogo 656, Japan. Tel: 81 799 23 2901. Produced \$213 million worth of solar cells at its plant in Hungary in recent year.

[Sharp Corp.](#), Sharp Photovoltaics Div., 282-1 Hajikami, Shinjo-cho, Kita-Katsuragi-gun, Nara Prefecture 639-2198, Japan. Tel: 81 745 63 3579. [Sharp](#) is the world's largest photovoltaic module and cell manufacturer, with major plants in Japan and in the UK. Sharp Solar produces [solar cells](#) for many applications. Recently the firm built a new state-of-the-art LCD panel plant and solar cell plant for the mass production of thin-film solar cells in Sakai City, Osaka prefecture.

Shecom K.K., ShecomBldg, 2-22, Kotono-Cho, 3 Chome, Chuo-ku, Kobe, Hyogo, Japan 651-0094. Tel: 81-78-232-1974. Solar electric power systems, batteries lithium ion, LED lighting.

Mitsubishi Heavy Industries Ltd .: Environmental Systems Division, 2-5-1, Marunouchi, Chiyoda-ku, 100 Tokyo, Japan. Tel: +81-3-3212 31 11.

[SANYO Electric Co. Ltd.](#), 2-5-15 Hiyoshicho, Moriguchi-shi, Osaka 570-8634, Japan. Tel: +81-6-6992-1521. [www.sanyo.com.jp](http://www.sanyo.com.jp). A huge global firm. Solar panels and cells

### **Kazakhstan**

KazAtomProm., Bogenbai Batyr Street 168, 480012 Almaty, Kazakhstan. A world leader in uranium.

### **Laos**

Nam Nhone Hydropower Co. Ltd: P.O. Box 11544, House 50, Unit 05, Ban Sokpaluang, Sisatanak District, 21000 Vientiane, Lao PDR. A Lao-French (30%-70%) joint-venture. Building a \$4 million hydro power plant in Tonpheung district.

### **Mauritius**

Balkee Tide and Wave Electricity Generator. Raj Balkee, Plateau Road, Goodlands, Mauritius. Tel: +230 2838764

### **Mexico**

Frisa Forjados: Valentin G. Rivero #127 Col. Los Trevino, Santa Catarina, Nuevo Leon, Mexico 66350. Tel: +52-81-8153-0306

[Grupo Insolar SA de CV \(former EcoVertice\): Calle 82, Lote 17, Mza. 83, Region 233, Cancún, Q. Roo, Mexico 77510. Marine buoy lights.](#)

Phoebus Tech. Engineering Inc. SA de Cv. J.J. Eguiara y Eguren 117, Mexico D.F., Mexico 08200. Tel: 52 55 55199460. Fuel cell systems, small water turbine electric generators from 1W up to 400W

Potencia Industrial SA de CV: Año de Juarez 205, Mexico City, Col. Granjas San Antonio, Mexico 09070. Tel: 525 686 7303.

### **Nauru**

Tokyo Electric undertook an OTEC project at Nauru in the central Pacific in the 1980s. The project was abandoned after it was damaged by a typhoon.

### **Netherlands**

[Ecofys](#): P.O. Box 8408, NL-3503 RK Utrecht, The Netherlands. 150 employees in six countries. Danish partner is Eric Rossen. Testing "Wave Rotor" at Nissum Bredning fjord on the northwest coast of Denmark, where the Folkecenter for Renewable Energy manages a dedicated wave energy test site.

Harakosan Europe B.V.: Runderweg 6, Lelystad, Flevoland, The Netherlands 8219 PK . Tel: +31 (0) 32-029-1099.

Lagerwey Wind BV: Barneveld, The Netherlands, Anthonie Fokkerstraat 2, 3772 MR, Barneveld.

Suzlon Energy Ltd.: World HQ, India. Offices in Amsterdam, The Netherlands. +31.20.573.4433. Offices in Aarhus, Jutland, Denmark. Suzlon Wind Energy Corporation, Chicago.

[Prime Wind Power International](#): 828 Block E, Multan Road, Lahore, Pakistan. Tel: +92 42 543 7314.

[Wind Energy Solutions bv](#): De Weel 20, Zijdedwind, The Netherlands 1736 KB. Tel: +31 (0)226 425150.

### **New Zealand**

Crest Energy Ltd: 5th Floor, Ballantyne House, 101 Customs Street, East Auckland, PO Box 105774, Auckland 1143, New Zealand.

Proposes to build a 200-MW tidal power plant in the mouth of Kaipara Harbour in northern New Zealand.

Windflow Technology Ltd.: 42-44 Mandeville St., Riccarton, PO Box 42-125, Christchurch, New Zealand. Tel: +64 3 365 8960.

### **Norway**

Olsen Energy ASA: Oslo, Norway. Shipping magnate Fred Olsen is promoting his "Buldra" wave converter that is situated on an offshore platform built of fiberglass.

[Renewable Energy Corp.](#), based in Norway, has seven production plants in three different countries with approximately 1,100 employees. Producer of polysilicon and wafers for PV applications.

### **Pakistan**

Pak Wind Energy (Pvt) Ltd.: M-3 Akbar Paradise Gulshan-e-Iqbal 10 A, Karachi, Sind Pakistan 75300. Tel: +92-21-4971610.

### **Peru**

[Denertec S.A.C.](#): Francisco de Cuellar 635, Urb. San Idelfonso 1, Surco, Lima, Lima Peru LIMA 33/ Tel: (51 1) 6281727

### **Philippines**

[Chevron Geothermal Energy](#), for example, has been developing big projects in Indonesia and the Philippines – enough power for seven million homes.

### **Portugal**

Amper Solar. Acciona has acquired 100% of the shares of Amper Solar.

Energias de Portugal, S.A. Portugal

Pelamis Wave Power Ltd. (formerly Ocean Power Delivery). The first commercial [wave farm](#) using Pelamis machines began operation in 2006 off the coast of [Portugal](#). Another is being developed off the coast of Scotland. Other projects are in the planning stage. GE is an investor.

AWS. The "Archimedes Wave Swing" machine from AWS is said to be the world's first submerged wave energy system. The concept was proved in full-scale in 2004 via a pilot plant off the coast of Portugal. The Scottish Government has made a multi-million dollar grant to facilitate the commercial development and deployment of the machine. Also participating is Shell Technology Ventures Fund, an affiliate of Royal Dutch Shell.

### **Russia**

Applied Technologies Company Ltd: 16/10 – 301, Profsoyuznaya ul., Moscow, 117292, Russia. Tel./Fax: +7 (495) 125 2225. An offshore Float Wave Electric Power Station (FWEPS) and installation for hydrogen production by means of seawater electrolysis. System's components are in the development stage now.

Atomstroyexport. A Russian nuclear firm based in Moscow. Is building seven nuclear reactors – in Iran, China, Bulgaria and India – a higher number of reactors, it states, than any competitor.

Solaris Technologies LLC, Moscow, Russia. Tel/Fax: +7 495 951 8503; 953.

[Solar Wind Ltd.](#), 15, Korotkaya str., Krasnodar, 350063 Russia. E-mail: solwind@mail.kuban.ru

[TVEL Corp.](#), 49 Kashirskoe shosse, Moscow 115409, Russia. One of the world's leading manufacturers of nuclear fuel. Serves 73 commercial (17% of global market) and 30 research reactors in 13 countries.

### **Saudi Arabia**

Al-Afandi Solar Wafers and Cells Factory, 21411 P.O. Box 452, Jeddah, Saudi Arabia. Tel: 966 2 6634442.

Saline Water Conversion. I have visited the big desalting plant at Jubail, Saudi Arabia – a world model. I have seen the pipeline that carries a river of fresh water 200 miles (322 km) inland to the capital city of Riyadh. desalted seawater has given a large region an entirely new future filled with opportunities.

### **Singapore**

Horizon Fuel Cell Technologies. 5 Shenton Way, #23-03 UIC Building, Singapore 068808. Tel: (+65) 64089785. Claims to be the first company to commercialize consumer fuel cell products, with customers in 35 countries around the world.

[www.horizonfuelcell.com](http://www.horizonfuelcell.com)

NeuroFlash Pte Ltd., #04-55, Block 203, Hougang Street 21, Kovan, Singapore 530 203. Tel: +65 6282 1992. Fuel cell system components

### **South Africa**

Eskom. Megawatt Park, Maxwell Drive, Sunninghill, Sandton. South Africa.

[South African Nuclear Energy Corp.](#) Pelindaba, South Africa. Processes nuclear power source material and operates the Vaalputs radioactive waste disposal facility.

### **South Korea**

Abengoa is a large Spanish-based diversified energy company. Its affiliate Solucar is its active solar business unit.

[Photon Semiconductor & Energy Co. Ltd.](#), 300, Cheoncheon-dong, Jangan-gu, Suwon-si, Gyeonggi-do, 440-746 South Korea. Tel: 82 55 294 2116. PV.

[Doosan Heavy Industries & Construction Co. Ltd.](#), Changwon, South Korea. Has built 15 nuclear power plants around the world and has six more under construction

### **Spain**

Acciona: One of Spain's largest corporations, with activities in more than 30 countries on five continents with projects in renewable energies, and other infrastructures. The firm has a workforce of more than 38,000. +1-212-593-6377, +1-860-810-5657, [guerink@ruderfinn.com](mailto:guerink@ruderfinn.com). Includes Acciona Solar Power (formerly Solargenix), and Acciona Energy Oceania Pty Ltd, Level 1, 95 Coventry St., South Melbourne, VIC 3205, Australia. Acciona Energía, Spain. Wind-farm builder and developer

[ACSA - Aerogeneradores Canarias](#), S.A. 35011 Las Palmas de Gran Canaria, Spain. Tel: +34 928257701.

[Equipos Nucleares, SA](#). Madrid, Spain. Manufacturing: Production of steam generators for nuclear power stations; components for nuclear plants and equipment for radioactive waste treatment.

[Gamesa Corporacion Tecno-logica SA](#): C/ Ramírez de Arellano 37, 28043 Madrid, Spain. +34 915 031 700.

Gamesa Eólica, Spain. Turbine manufacturer

Iberdrola S.A: 8 Cardenal Gardoqui, 48008 Bilbao, Vizcaya, Spain. Large electric utility. Affiliate Iberdrola Energias Marinas de Cantabria, S.A. Contracted with Ocean Powers Technologies Ltd. of U.S. for development of a wave energy plant at Punta del Pescador, Santoña, Spain. Iberdrola, Bilbao, Vizcaya, Spain. Wind-farm owner and operator

Ingetur S.A: Pol' Gono Industrial Barasoain, Parcela 2, 31395 Barasoain (Navarra), Spain. Tel: +34 948 720 535

[Isofotón SA](#), c/ Montalban No9, 2 Izq., 28014 Madrid, Spain. Tel: 34 91 531 2625.

MADE Tecnologías Renovables: Paseo de la Castellana, 95, Planta 29 Torre Europa, Madrid, Spain. Tel: +34 - 91 - 598 37 28.

[Solar Wind Europe S.L.](#), C/Doctor Esquerdo, 17-2º, 28028 Madrid, Spain. Pol. Ind. Las Casas II, C/ L, nave 227, 42005 Soria, Spain. E-mail: [info@solar-windeurope.com](mailto:info@solar-windeurope.com)

Solucar Energia S.A., a subsidiary of Abengoa, the Spanish-based diversified energy company. [www.solucar.es](http://www.solucar.es).

Torresol Energy. A joint venture of Spanish engineering firm Sener and Abu Dhabi firm Masdar.

### **Sweden**

E.ON Sverige, AB. Stockholm. Energy firm in Sweden.

[Interproject Service AB: Gripensnäs, S-640 33 Bettna, Sweden. Promoting "OWEC Buoy:"](#) AquaEnergy is the intellectual property successor.

[Obducat Storage AB](#), P.O. Box 580, SE-201 25 Malmö, Sweden. Biosensors and semiconductors.

Seabased AB: Midskeppsgatan 24, 120 66 Stockholm, Sweden. Develops industrial solutions for sustainable conversion of ocean waves.

[Sea Power International AB: Essingeringen 72C, Stockholm, Sweden S-11264. Tel: +46 8 6579551. Developer of wave and tidal current energy.](#)

Vattenfall AB, Birger Jarlsgatan 33, SE-162 87 Stockholm, Sweden. Utility serving several nations in Northern Europe.

### **Switzerland**

[ABB Switzerland Ltd.](#) Brown Boveri Strasse 5, CH-8050 Zurich, Switzerland. Tel: +41 58 5881647. [www.abb.com](http://www.abb.com). Long-established global supplier of diverse energy systems

[Serono Group](#). Switzerland, (Merck). Developer of pharmaceutical products.

[Solterra Fotovoltaico SA](#), via Milano 7, CH - 6830 Chiasso, Switzerland. Tel: 41 91 695 40 60. E-mail: [info@solterra.ch](mailto:info@solterra.ch)

[VHF-Technologies SA](#), Av. des Sports 18, CH-1400 Yverdon-les-Bains, Switzerland. E-mail: [marketing@flexcell.ch](mailto:marketing@flexcell.ch)

### **Taiwan**

[Big Sun Energy Technology](#), No.458, Sinsing Rd., Hukou Township, Hsinchu County 303, Taiwan (R.O.C.). Tel: 886-3-5980288.

[E-Ton Solar Technology](#), No. 498, Sec. 2, Bentian Rd., Tainan, Taiwan, 709 Tel: 886-6-3840777

[Gintech Energy](#), 8F, No. 396, Nei Hu Rd., Sec.1, Taipei 114, Taiwan. Tel: 886-2-2656-2000. Solar.

[Motech Industries Inc.](#), Solar Electricity Division, No 3 Da-Shun 9th Road, Tainan County, 744, Hsin-Shi, Taiwan. Tel: 886 6 505 07 89 x204

Neo Solar Power Corp., 2, Wen-Hua Rd., Hsinchu Industrial Park, Hu-Kou, Hsinchu County, Taiwan 303. Tel: 886-3-598-0126

[Sinonar Corp.](#), 8 Prosperity Road 1, Science-Based Industrial Park, Hsinchu, Taiwan. Tel: 886 3 5783366. Solar.

[Solartech Energy Corp.](#), No. 51, Dinghu 1st St., 4th Industrial Park, Gueishan, Taoyuan 333, Taiwan. E-mail: [sales@solartech-energy.com](mailto:sales@solartech-energy.com)

### **Thailand**

[Bangkok Solar Co. Ltd.](#), 39/1 Moo 1, Bangpakong-Chachoengsao Road, Sanpudad, Banpho, Chachoengsao 24140, Thailand. Tel: 66 (0) 3857-7373.

Entec AG: Bahnhofstrasse 4, St Gallen CH-9000, Switzerland. Hydro projects in [Indonesia](#), Laos, Malaysia, Nepal, Tajikistan, Thailand.

### **Turkey**

Soytes Clean Energy and Electrotechnics Co. Inc.: Tehran Cad. No: 30 Kavaklidere, Ankara, Turkey 06700. Tel: +90 3124688 750.

### **Ukraine**

Energoatom. Kiev, Ukraine. Construction of new [power units](#) and rehabilitation of those in operation, purchase of the new [nuclear fuel](#) and removal of [radioactive waste](#).

[Kvazar JSC](#). 3 Severo-syretskaya str., 04136 Kiev, Ukraine. Tel: 81 75 604 3476. Solar.

### **United Arab Emirates**

Microsol International, P. O. Box 4940, Fujairah Free Zone Phase II, Fujairah, United Arab Emirates 4940, Tel: 00971-9-2282138. PV.

Millennium Energy Industries (MEI), a leading solar solutions company operating in the MENA region, announced its project with Modern Residential City, Abu Dhabi, for the design, supply, and installation of advanced central solar hot water solutions in 48 buildings. The central solar hot water systems are to fully supply 1.3 million liters/day of domestic hot water for the expected 25,000 city residents. This solar project is the largest of its kind in the Middle East region, and complements Abu Dhabi's existing environmental initiatives such as Masdar.

Torresol Energy. Abu Dhabi. A joint venture of Spanish engineering firm Sener and Abu Dhabi firm Masdar.

### **United Kingdom**

AES Ltd.: AES Building, Lea Road, Forres IV36 1AU, Scotland. E-mail: [info@aessolar.co.uk](mailto:info@aessolar.co.uk). Phone: +44 (0)1309 676911. AES is the UK's original solar thermal collector manufacturer and has been manufacturing collectors since 1979.

Alternative Fuel Systems Ltd., Spring Copse Business Park, Slinfold, West Sussex, United Kingdom RH13 7SZ. Tel: +44 (0) 1403 791116. Hydrogen fuel cell generators

AMEC NNC, 76 - 78 Old St., London EC1V 99RU, UK. Nuclear plant engineering.

[Anglo American plc.](#), 20 Carlton House Terrace, London SW1Y 5AN, United Kingdom. A global mining firm. Uranium.

[Aquamarine Power](#): 10 Saint Andrew Square, Edinburgh EH2 2AF, Scotland. "Oyster" is fixed to the seabed and swings back and forth with each wave. This motion captures energy and pumps high pressure water to onshore hydroelectric equipment. Technology from Queens College, Belfast.

AWS Ocean Energy, AWS Ocean Energy Ltd: Redshank House, Alness Point Business Park, Alness, Ross-shire, IV17 0UP, Scotland. the "Archimedes Wave Swing" machine from AWS is said to be the world's first submerged wave energy system. The concept was proved in full-scale in 2004 via a pilot plant off the coast of Portugal. The Scottish Government has made a multi-million dollar grant to facilitate the commercial development and deployment of the machine. Also participating is Shell Technology Ventures Fund, an affiliate of Royal Dutch Shell.

British Energy Group, GSO Business Park, East Kilbride G74 5PG, UK.

British Nuclear Fuels, [Daresbury, England](#). Manufactures and transports nuclear fuel, runs reactors, generates and sells electricity. Affiliated: [BNFL & Westinghouse Japan](#)

[Clearpower Technology](#) Ltd: Northern Ireland Science Park, Queen's Road, Belfast BT3 9DT. Developer of "[Wavebob](#)."

C-Wave Ltd: SETsquared, Southampton Building, 27 University of Southampton, Highfield SO17 1BJ, U.K.

Dexa Wave Energy Co. UK.: [www.dexawaveenergy.co.uk/](http://www.dexawaveenergy.co.uk/) Dexa is developing Ocean Wave Energy converters based on Plane Angular Modulation (PAM). Two planes or pontoons float in the waves and change angles relative to each other. The tilt action creates oil pressure in a hydraulic cylinder to drive a hydraulic motor and generator to produce electricity.

[Embley Energy](#): Oakleigh, Tockington Park Lane, Almondsbury, Bristol BS32 4JE, U.K. Developer of "SPERBOY" floating wave energy converter.

Eneco Ltd., Unit 6, Spring Copse Business Park, Slinfold, Nr. Horsham, West Sussex, United Kingdom RH13 0SZ. Tel: +44 (0)1403 790114. Hybrid power systems, fuel cell systems

[Engineering Business Ltd: Broomhaugh House, Riding Mill, Northumberland NE44 6EG, England. Has developed "Stingray" tidal stream device.](#) A prototype was installed in Scotland's Yell Sound.

[Evans Engineering Ltd](#): Langley Court, Langley Road, Burscough Industrial Estate, Ormskirk, Lancashire, L40 8JR, United Kingdom. Micro-hydroelectric units for rural sites.

E.ON, UK

Eurowind Developments Ltd & Eurowind Small Turbines Ltd: 38 Kings Avenue, Newhaven, East Sussex, UK BN9 0NA . Tel: +44 (0) 1273 612383.

Falck Renewables Ltd., UK

Generic Wave Energy Device – GWED: Causewayside, Glenaldie, Tain, Scotland, UK IV19 1NE. Tel: +44 1862 892777.

[Green Ocean Energy](#) Ltd: 29 Abbotshall Crescent, Cults, Aberdeen AB15 9JQ, Scotland. Developer of "Wave Treader" wave energy converter.

Hydrogen Fuel Cell Motorsport, Woodham Court, Woking, United Kingdom GU215NJ. Tel: 0044 7771 895 429. Fuel cell systems

ITI Energy, 6th Floor, The Exchange No 1, 62 Market Street, Aberdeen, AB11 5PJ, Scotland. Tel: +44 1224 282630. Developed

over 10 years at Newcastle University, the ITI Energy Gasifier was specifically designed to handle a wide range of "difficult" or negative-value feedstocks and is particularly suited to the conversion of Refuse Derived Fuel (RDF) into energy.

[www.itienergy.com](http://www.itienergy.com).

IT Power Ltd: Grove House, Chineham Court, Lutyens Close, Chineham, Basingstoke, Hampshire RG24 8AG, U.K. The company is leading a \$2 million research and development project on a tidal stream energy device, "Pulse Stream 100."

London Array Ltd., UK

Marine Current Turbines Ltd: The Court, The Green, Stoke Gifford, Bristol, BS34 8PD, UK. Has installed its "SeaGen" tidal energy system off the northern coast of Ireland.

[Neptune Renewable Energy](#): 18 High Street, North Ferriby, East Yorkshire, HU14 3JP, U.K. Tel: +44 (0) 1482 637196; Fax: +44 (0) 1482 642935. Tidal energy systems and the Neptune "Triton."

Ocean Navitas Ltd: Nursery House, Marton, Lincolnshire, U.K DN21 5BQ. Using the facilities at the New and Renewable Energy Centre in Blyth, Northumberland, for testing 2 kW prototype "Aegir Dynamo" wave energy converter.

Ocean Prospect Ltd, subsidiary of the Wind Prospect Group: 7 Berkeley Square, Clifton, Bristol BS8 1HG, U.K. Firm has agreement with E.ON UK, the country's largest integrated energy company, to develop a wave energy project off the North Cornwall coast. The project, to be known as WestWave, is a proposed 5.25-MW wave power generating scheme consisting of seven Pelamis P750 machines, manufactured by Ocean Power Delivery.

[Ocean WaveMaster Ltd](#): 1 Echo Street, Manchester M1 7DP. U.K. Other organizations involved in the project: UMITEK; New and Renewable Energy Centre (NaREC); and University of Manchester, Institute of Science and Technology (UMIST).

[Offshore Wave Energy Ltd](#), OWEL. Floating offshore wave energy.

[ORECon](#) Ltd: A spin-out company from the University of Plymouth, Drake Circus, Plymouth PL4 8AA, UK. Has raised \$24 million venture capital to build full-scale wave converter.

Pelamis Wave Power Ltd (formerly known as Ocean Power Delivery): 104 Commercial St., EH6 6NF Edinburgh, U.K. Tel: +44 131 554 8444. Developer of Pelamis wave converter. GE is an investor. The first commercial [wave farm](#) using Pelamis machines began operation in 2006 off the coast of [Portugal](#). Another is being developed off the coast of Scotland.

Professional Protection Systems Ltd, Sherbourne Drive, Tilbrook, Milton Keynes, Buckinghamshire, MK7 8HX, UK. Manufacturer of decontamination systems and shelters.

Renewable Energy Holdings: Adam House, 7 - 10 Adam Street, The Strand, London WC2N 6AA, UK. Investing \$6 million in a commercial prototype of its wave power generator, after successful trials off the Western Australian coast.

[Scottish Power](#), Scotland, UK

SDL Queensgate Ltd., Willoughby Road, Bracknell, Berkshire, RG12 8FB, UK. Nanopositioning solutions.

Segen Ltd: Wesley Hall, Queens Road, GB, GU11 3JD, U.K. Tel: 0845 084 2445. Has acquired Hydro Generation Ltd. The UK has thousands of old mill sites waiting to be re-activated using modern micro-hydro water turbines rather than water wheels.

SMD Hydrovision, Wincomblee Rd., Newcastle Upon Tyne, NE6 3QS, U.K. The company has developed the "TideEl" tidal stream generator and is planning to build the first plant off the coast of Wales, near Swansea. Tidal Electric has also signed an agreement with the Chinese government to develop a 300-MW offshore tidal lagoon near the mouth of the Yalu River.

Tidal Electric: 50 Albemarle St., 3rd Floor, London W1S 4BD, U.K. Is proposing a tidal energy plant at Swansea.

Tidal Generation Ltd: University Gate East, Park Row, Bristol BS1 5UB, U.K. Firm is developing underwater turbine.

Urenco Group/Urenco Ltd., 18 Oxford Road, Marlow, Buckinghamshire SL7 2NL, UK. Operates uranium enrichment plants in Germany, The Netherlands and the UK and supplies nuclear power stations in about 15 countries.

Voith Siemens Hydro. A Limpet plant installed on the island of Islay, off the west coast of Scotland, in 2000 is claimed to be the world's first grid-connected, commercial-scale wave energy unit. The original developer Wavegen has since been acquired by Voith Siemens Hydro. Wavegen is a shoreline, wave energy converter using an inclined oscillating water column (OWC) built into a cliff. It has a Wells turbine power take-off. Advantages claimed are easy access and maintenance, proximity to grid connections, and simplicity. The Wells turbine has no gearbox or hydraulics and handles variable bi-directional flow.



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