

## At the heart of the clean energy transformation.



R. P. Delio & Company has been at the heart of the clean energy transformation for the best part of a decade. The company's principle consultant's have been involved in several ground-breaking projects and programs, helping to drive forward what many now characterize as the 'third industrial revolution'. But that transformation is far from a purely technical challenge.

It involves a complex and dynamic interaction between energy policy, markets and technology – an evolving landscape that R. P. Delio & Company have proven adept at navigating. Our core expertise extends across the juncture of the following newly synergized market sectors:

- > Renewable and Environmental Energy
- > Public Policy and Regulated Markets
- > Energy Infrastructure and Security
- > Semiconductors and Materials Science
- > Advanced Technology Integration

These are sectors that are on the cusp of an unprecedented fusion, propelled together by this millennium's leap forward into clean energy solutions. R.P. Delio & Company stands ready to assist its clients in the successful navigation of this new technology vista, by providing the following services:

- > Renewable and Environmental Energy Deployment (Solar PV, Small Wind, Biofuel, Co-gen)
- > Clean Energy Regulatory and Legislative Consultancy
- > Forward Technology Scouting
- > Smart Grid, Micro-grid and Off-grid Technology & Renewable Energy Integration Consultancy
- > Electric vehicle conversion and bi-directional energy storage
- > Underground Asset Rehabilitation
- > Energy Efficiency, Auditing and Master Planning
- > Demand-side and Peak Load Energy Management
- > LEED Consulting

### POWERFUL PROJECT EXPERIENCE

Notable clean energy projects managed by R. P. Delio consultants include:

- > Leading the strategic retooling, stakeholder engagement and organizational refocus necessary to deliver the overall execution of the Inter-Island Renewable Energy Network, a transformational program to help the state's regulated utility meet Hawaii's ambitious Renewable Energy Portfolio goals of 40% renewable electricity by 2030.
- > Bringing intelligence to Connecticut's power grid, for a major state utility, through a \$70 million full-service program to rebuild the underground transmission and distribution system in Bridgeport and New Haven, utilizing smart grid and energy storage technology.
- > Directing significant engineering projects in the north-east US involving large-scale solar photo-voltaic (PV) installations. Managed the constructibility, validation of design and construction schedules, assurance of design process efficiency, and the control of design costs for nearly 40 MW of generating capacity – including ground-breaking school solar programs.

Managing the design and construction of the first anaerobic biogas co-generation system in the state of Massachusetts – a project rated at 325kWe and producing 1,200,000 BTU/hr of hot water for the anaerobic digestion process. Innovative thinking was key, with development of a proprietary gas-conditioning skid and micro-turbine control system being critical to project success.

## ROBUST PERFORMANT PRODUCTS

Delivering solutions that are stamped with success relies on equipment and systems that are robust and efficient – and which perform to the highest levels. Where our demanding technical expectations have been met, and exceeded, R. P. Delio & Company are keen to assist others in gaining those same benefits. This is why we actively endorse, and offer for resale, the following premium offerings from vendors we use and trust:

**Princeton Power Systems:** Demand Response and Grid-tied Inverters, Energy Storage Systems. "Princeton Power Systems offers an array of products and services available for high-performance power electronics. Our advanced converters are used for military and commercial distributed generation applications, including solar systems, energy storage, critical load control, backup power, and other advanced features."

<http://www.princetonpower.com/prod.shtml>

**Ideal Power Converters:** Photovoltaic Inverters, Grid Storage, EV Fast Charging, Hybrid PV & Battery Systems, Wind Converters. "Ideal Power Converters has patented and is further developing a new breakthrough current-modulation power converter topology that will improve both energy and cost efficiency for applications including solar inverters, wind converters, and electric vehicle charging infrastructure."

<http://www.idealpowerconverters.com/solutions.aspx>

**Outback Inverters:** Inverters, Chargers. "OutBack Power Technologies, Inc. is a global designer and manufacturer of cutting edge power conversion solutions that provide reliable electric power for the renewable energy, mobile and backup power markets."

<http://www.outbackpower.com/products/>

**SMA Inverters:** Solar, Off-grid, Wind Energy Inverters. "SMA Solar Technology AG is a global leader in the development, production and sales of PV inverters and, as an energy management group, offers innovative key technologies for future power supply structures."

<http://www.sma.de/en/products/overview.html>

**Advanced Energy Inverters:** Utility, Commercial and String Inverters. "AE's solar energy business delivers highly reliable inverters, complementary Balance of System (BoS) products, and robust Operations and Maintenance (O&M) services that allow our customers to secure more solar projects and grow their business."

<http://solarenergy.advanced-energy.com/en/Products.html>

**Yingli Solar:** Monocrystalline and Multicrystalline Solar Photovoltaic Modules. "Yingli Green Energy is a leading solar energy company and is the world's first fully vertically integrated photovoltaic manufacturer. We develop, manufacture, and sell high-quality modules under the brand Yingli Solar to a wide range of markets."

<http://www.yinglisolar.com/us/products/>

**Trina PV:** Monocrystalline and Multicrystalline Solar Photovoltaic Modules. "Trina Solar is one of the world's foremost PV companies. Fully vertically integrated from the production of ingots to modules into both mono and multicrystalline technologies, Trina Solar offers high quality modules and solar solutions."

<http://www.trinasolar.com/eu/about-us/company-overview?tab=Company%20Overview>

**Solar FlexRack:** Roof-mount, Ground-mount, and Utility Solar Module Racking Systems, Carport Mounting Systems. "Solar FlexRack is the most innovative photovoltaic mounting solution on the market today. Thanks to its pre-assembled, unfolding design, the Solar FlexRack makes significantly accelerated construction times and dramatic savings on labor costs possible for any solar mounting system installation."

<http://www.solarflexrack.com/about.html>

**Schletter Racking:** Roof-mount, Ground-mount, and Utility Solar Module Racking Systems. "Schletter offers innovative solar mounting systems for project developers, module manufacturers, and system integrators for commercial and/or residential solar projects. Each solar mounting system can be individually designed for a cost-effective photovoltaic mounting solution."

<http://www.schletter.us/solar-mounting.html>

**Unirac:** Roof-mount, Ground-mount, and Utility Solar Module Racking Systems, Open Structure Carport Mounting. "Unirac leads the PV mounting market with industry-leading technology and a breadth of product solutions and services designed to meet the needs of any type of solar installation."

<http://unirac.com/>

**Protek Park Solar:** PV and Customizable Solar Canopies. "At ProtekPark Solar we have taken our experience with corrosive environments and parlayed that into a solar canopy structure that will outlast your modules."

<http://www.protekparksolar.com/index.htm>

**SolarBOS:** Combiner Boxes, Recombiners, Fuse Boxes, Disconnect and Contactor Enclosures. "SolarBOS is a leading manufacturer of Combiner Boxes, ReCombiners and other BOS solutions, serving the needs of the solar industry since 2004."

<http://www.solarbos.com/products/>

**American Renewable Energy:** Wind Monopoles and Foundations, Wind Tower Raising Systems, Solar and Wind Street Lighting Poles.

"Founded in 2008, American Resource & Energy (ARE) has quickly become a leader in the small wind market worldwide by making wind energy more accessible and cost effective. ARE specializes in the design, engineering, manufacturing, and delivery of monopole wind towers for small wind turbines producing 100kw and below."

<http://www.arewindtowers.com/>

**ChargePoint:** EV Charging Station Management Software. "ChargePoint leads the market with revolutionary electric vehicle (EV) charging solutions that serve a variety of industries. The largest online charging network in the world, ChargePoint connects drivers to charging stations in more than 14 countries."  
<http://www.chargepoint.com/products.php>

**NetGain Motors:** Electric Motors for EV and Hybrid Conversions. "NetGain's business is the wholesale distribution of the electric motors we have developed for use in electric vehicles. WarP™ Motors are a sturdy, reliable, and economical alternative for electric vehicle motors."  
<http://www.go-ev.com/Products.html>

**Evnetics Soliton:** Electric Motor Controllers for EV and Hybrid Conversions. "Evnetics, LLC. designs and manufactures the most advanced electronics specifically for electric vehicles, all right here in the USA. Our main products are high power brushed DC motor controllers for electric vehicle applications."  
<http://www.evnetics.com/evnetics-products/>

## THE R. P. DELIO APPROACH

Our approach to service provision and consultancy is guided by three principles, helping to ensure that 'process' doesn't deflect from the achieving of our client's goals:

- > **Pragmatism** – success is not delivered through dogma and theory. We believe that success is ultimately underpinned by action grounded in the real world
- > **Client-tailored** – there is no such thing as an 'off-the-shelf' solution. We believe in the fundamental value of applying common sense to individual client situations
- > **Result-focused** – we believe in providing concrete, tangible and long-lasting solutions to your biggest challenges

R. P. Delio & Company have been Engineering Program Success since 1989; with us as your partner, your vision for transformation can, and will, be made real.

### CONTACT US

Contact.Us@rpdelio.com  
855 RPDELIO  
(855) 773-3546

### SOUTH PACIFIC MAILING ADDRESS

1050 Bishop Street  
Suite 351  
Honolulu, Hawaii, USA 96813

### NORTHEAST USA MAILING ADDRESS

9 Reservoir Street  
Bethel, CT 06801

