



### 2010 Winning Teams—Brief Information and Bio

**Project Name:** Integrated Wood Fired Heating Systems

**Company Name:** Green Clean Heat LLC, Newton Junction, NH 03859-0100

**Amount Awarded:** \$60,000 (systems development and equipment purchase)

**Brief Description:** The mission of GCH is to design and build fully-integrated efficient Wood Fired Heating Systems for commercial, municipal, and industrial facilities. An efficient wood system is a far more practical and efficient alternative fuel for northern climates, such as New England, than solar or wind, while delivering the same carbon neutral benefit.

**Brief Bio:**

Anders Ragnarsson, is the owner and founder of GCH, and CEO of Continental Biomass Industries, the manufacturer of the World's Best Wood Grinders. Anders has over twenty years of design and manufacturing experience, and with CBI has the support of one of the best engineering teams in the Northeast consisting of over fourteen engineers.

Harry Smith, General Manager, of Green Clean Heat, has successfully managed a variety of wood burning power plants as well as wood fuel processing facilities for the past 25+ years. His experiences include the development, construction, and operation of wood and natural gas combined cycle power plants.

---

**Project Name:** EnerTrac Smart Metering to reduce CO2

**Company Name:** EnerTrac, Inc. Hudson, NH 03051

**Amount Awarded:** \$20,000 (student interns to conduct market research)

**Brief Description:** EnerTrac has developed Smart Metering Technology and a corresponding Monitoring Service that can reduce CO2 emissions by 30% or more. EnerTrac plans to extend this technology to other CO2 sensitive markets.

**Brief Bio:**

Steve Owens, CEO, is applying his strong experience as an entrepreneur, business leader and engineer to direct the Company's activities. Steve has successfully developed dozens of products during his 25 year career and holds more than 25 patents.

Pat Mansfield, VP Business Development, is a proven software & services executive with both start-up and established company experience that is needed for EnerTrac growth. Pat was previously President US Systems and Services at Bull Worldwide - a 200M\$ business.

---

**Project Name: Expansion of Sustainable Distributed Energy Generation Through Third Party Financing Services for NH Communities**

**Company Name:** Revolution Energy, LLC, Dover, NH 03820

**Amount Awarded:** \$60,000 (staff salary and professional services)

**Brief Description:** Revolution Energy seeks to help expand their innovative approach to developing alternative energy projects in New Hampshire using third-party financing and creative incentive leveraging. RE's initial targets are municipalities and schools. RE seeks to advance their successful pilot project into a larger, sustainable business model.

**Brief Bio:**

Mike Behrmann (Principal, Energy Analyst/Public Relations) is actively engaged in pursuing opportunities for municipalities, schools, non-profits and businesses regarding energy efficiency and alternative energy generation. Mike is also a founder/partner in the firm Sustainable Development and Energy Systems Group, LLC (SDES Group, LLC) which provides clients with energy auditing services and alternative energy solutions ([www.sdesgroup.com](http://www.sdesgroup.com)).

Clay Mitchell (Principal, Legal and Planning) has worked with local governments in New England for the last 12 years. He holds a Doctorate in Natural Resources and Environmental Science from the University of New Hampshire and is a graduate of Vermont Law School with a JD and a Masters in Environmental Law. Clay's primary focus is environmental law and energy project development.

---

**Project Name: INNOVACENE--Manufacturing High Performance Organic Semiconductors for Organic Photovoltaic and Organic Light Emitting Diode Markets**

**Company Name:** Innovacene, Durham, NH 0324

**Amount Awarded:** \$32,048 (testing equipment purchase and student interns for market research and web site development)

**Brief Description:** Innovacene manufactures the highest performing organic semiconductors (OSCs) for flexible organic photovoltaics (solar cells) and organic light emitting diodes (OLEDs, lighting and displays. Innovacene plans to identify customers, conduct market research, and develop a plan to finance scale-up.

**Brief Bio:**

Glen P. Miller is Professor of Chemistry and Materials Science at the University of New Hampshire and Director of the Materials Science Program and UNH Director of the NSF funded Nanoscale Science and Engineering Center for High-Rate Nanomanufacturing (CHN) at UNH.

---

**Project Name: Air-Power Analysis Package (APAP)**

**Company Name: Compressor Energy Solution, Inc.,** Bedford, NH 03110

**Amount Awarded:** \$58,300 (professional services and student interns for market research, software enhancements, and web site development)

**Brief Description:** Compressor Energy Solutions (CES) seeks to improve energy efficiency of industrial compressed air systems, reducing electric consumption, and saving money while reducing upstream greenhouse gas emissions. APAP is a turnkey platform for metering, measuring and analyzing industrial compressed air systems. It includes meters for power, airflow, and air pressure, along with data logging and analysis tools. Using uploaded metering data, APAP builds an airflow-to-power profile that quantifies the efficiency of the system. It also includes an innovative ROI analysis tool that calculates potential energy savings.

**Brief Bio:**

Edward Mitchell, Co-founder and President, is a long-time NH resident, entrepreneur, and innovator. He was co-founder of Granite Systems (along with Jay Borden), a telecom software provider that employed more than 100 people in Manchester, and was acquired by Telcordia Technologies in 2004. In addition to Compressor Energy Solutions, Ed was a co-founder of JitterGram, Inc.

---