

CONCEPTS NREC

FOR IMMEDIATE RELEASE

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Concepts NREC to discuss ORC Product, Software Updates at 2013 Power-Gen International in Orlando

White River Junction, VT, USA – November 1, 2013 — **Concepts NREC (CN)**, the world's leading full service, independent turbomachinery design and development organization announces it will be exhibiting at the 2013 **Power-Gen International Show** November 12-14, 2013 in Booth #3950 at the Orange County Convention Center in Orlando, FL.

Representatives will be on-hand to discuss CN's latest turbomachinery products and services offerings:

- The **CN300** — CN's new product in their Organic Rankine Cycle (ORC) turbine-generator system product line.
- The latest software upgrades to the 2013 release of the **Agile Engineering Design System®**.
- Phases VI, VII & VIII of the **Advanced Pump and Compressor Consortium for Diffuser/Volute Design**.

The **CN300** represents a breakthrough in ORC technology and combines many important features that the waste heat-to-power industry has been asking for — a customizable system that offers a significantly lower investment cost, as well as greatly-reduced operating and maintenance costs. Features include:

- *Power recovery from 150 kW to 350 MW*
- *Recovery temperatures from 80° ÷ 240° C*

- *Pressure ratios from 2:1 to 25:1*
- *Customizable for a wide range of operating conditions and organic fluids*
- *Up to 4 stages in an axial rotor-nozzle subassembly cartridge design*
- *Hermetically sealed to eliminate shaft seal and any potential oil or refrigerant leakage*
- *Integral turbine / generator unit eliminates the interconnecting gearbox*
- *Magnetic bearings eliminate the cost, complexity, and maintenance of a separate lube oil system*



Each year, CN offers major upgrades to their **Agile Engineering Design System®** suite of software, the only commercially-available design and analysis software that encompasses and integrates the entire engineering process for radial, axial and mixed-flow turbomachinery components. “This year, there are some really great features coming into the 2013 release,” says George Zitka, *Managing Director of Software Sales — USA, Canada and Japan*. “We have brought 2-stage turbocharging modeling to TurboMatch, directional flow injection to Pushbutton CFD, and changes too numerous to mention to CTAADS (our cooled-turbine blade design system). And the codes are speeding up again this year.”

Jim McNamara, *Engineering Sales Manager and Consortium Coordinator*, will be in the booth to field any questions and provide any information about the next phases — Phases VI, VII & VIII — of the **Advanced Pump and Compressor Consortium for Diffuser/Volute Design**. “The Consortium is an unparalleled opportunity to gain access to state-of-the-art developments in turbomachinery analysis and design for a fraction of the stand-alone cost,” says McNamara. “Sponsorship is still open—and with early registration discounts.”

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About Concepts NREC

Concepts NREC (CN) provides engineering design, software, manufacturing, and educational services for the world's leading turbomachinery organizations. For over half a century CN has provided manufacturers, users, government agencies, educators, and the engineering community at large with the technology, tools, services, and products to meet their needs, helped them achieve their goals, and aided in the development and production of the world's most advanced turbomachinery products.

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