



PHOENIX NUCLEAR LABS

PROVIDING NUCLEAR TECHNOLOGY FOR THE BETTERMENT OF HUMANITY

FOR RELEASE:

April 25, 2017

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PNL to supply Rayton Solar with technology for low cost solar panel production

Monona, Wis. – Phoenix Nuclear Labs (PNL) has signed a long-term agreement to be the exclusive supplier of high current proton accelerators to California-based Rayton Solar to produce low cost, high efficiency solar panels. Under the terms of the agreement, PNL will deliver the first system to Rayton at the end of 2017, followed by several additional units in 2018 and 2019.

Rayton Solar has developed a technique that they expect will reduce the cost of solar panel manufacturing and increase energy efficiency. “We are capable of making up to 100 times as many solar panels with the same amount of silicon that our competitors use to make just one panel,” said Rayton Solar CEO Andrew Yakub. “The high current, high voltage proton accelerator developed by PNL is critical for our process, and we are thrilled to have them onboard as a long-term partner.”

Traditional solar panel manufacturing utilizes diamond wire saws to cut thin layers of silicon, a process that results in a substantial amount of wasted silicon. The Rayton process utilizes high current ion beams produced by the PNL technology to cleave thin layers of silicon with zero waste. The process uses 50-100 times less silicon than the traditional method. “Implementing this new manufacturing process will represent a revolutionary step for the solar industry,” Yakub said.

“Rayton Solar’s technology has the potential to increase the availability and decrease the cost of clean, renewable solar energy. We are excited to partner with Rayton to provide a technology vital to their process,” said Evan Sengbusch, VP of Business Development for PNL. “This collaboration is a perfect example of advancing the PNL mission by customizing and deploying our technology in ways that better humanity.”

PNL’s prototype proton accelerator will be delivered to Rayton Solar’s headquarters in Santa Monica, CA in late 2017. Rayton is currently raising additional equity capital via the crowdfunding platform Start Engine to support the scale up to a larger manufacturing facility in which additional PNL systems will be installed for higher volume solar panel manufacturing.

About Phoenix Nuclear Labs

Founded in 2005 in Middleton, Wis., Phoenix Nuclear Labs has developed a proprietary, particle accelerator-driven, nuclear fusion technology that has applications ranging from medicine to national defense. The company is focused on commercializing its core accelerator technology for near-term applications, including neutron radiography imaging for the nondestructive evaluation and quality control of military and aerospace components, medical isotope production, semiconductor processing, and the detection of explosive devices. For more information, visit: <http://phoenixnuclearlabs.com>.

About Rayton Solar

Rayton Solar, Inc. is comprised of entrepreneurs and professors with extensive backgrounds as world leaders in their field. The company aims to implement technology that will make solar energy cheaper than fossil fuels and allow the United States to manufacture solar panels domestically, helping to guarantee energy independence and a thriving US economy. For more information, visit: <http://www.raytonsolar.com>.

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