



Berken Energy co-founder and president Ken Newman looks over various machinery at the Berken Energy plant, 1 Earl Cummings Loop, Thursday. (Mark Wilson Photo)

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### [Device creates power from waste heat](#)

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Tucked away in a corner of Roswell is a budding company whose president says is on the verge of a revolutionary change in how people and industrial companies get electricity.

Ken Newman, president of Berken Energy LLC, says his small team of employees developed a new device that turns waste heat into energy using thermoelectric technology. Researchers developed thin solid-state materials capable of powering up a factory with heated water or vapor, for example.

“Anyplace that has this outflow of waste water or waste exhaust ... we can create power,” Newman said. “That’s just free energy for them.”

Berken Energy is months away from releasing generators that range in size from a file cabinet to a mini van, he said. The smaller models will turn out 25 kilowatt of electricity and the large generators can produce up to 1 megawatt — enough to power 1,000 homes.

The company’s product is a type of material that is attached to a number of different base materials, such as glass, copper and aluminum. The product captures heat and turns it into electricity.

Within a year after they begin to sell their generators, Newman says he hopes Berken Energy will produce

between 50 to 60 megawatts worth of its product to be sold to any number of customers.

“We can create plenty of power for a good price,” he said. “I think it’s pretty revolutionary.”

Newman says he’s received a good amount of interest from a list of companies interested in the product that’s being produced by a team of about eight employees.

Berken Energy attracted the attention of major power plants companies and a number of different manufacturers. Newman is even working with the U.S. Department of Defense on a project, he said.

“We plan on growing as big as we can get,” he said.

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