

## Kinergy Power rolls forward

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The Kinergy Power brand just keeps picking up momentum.

The brainchild of Stefanos Horianopoulos, Kinergy Power utilizes the kinetic energy from de-accelerating vehicles using a hydraulic piston system in devices he calls Kinerbumps, similar in structure to a speed hump, as well as KinergyPower Carpets, longer platforms with the pistons underneath.

Energy from the devices is then converted into electricity. Horianopoulos, a worker at John Deere Welland Works for nearly 12 years before it was closed, experimented with energy conversion before but came up with this idea travelling Niagara's main artery.

"I came up with the idea driving on the highway, the QEW as a matter of fact, when I hit a pothole," Horianopoulos said.

The first Kinerbump is scheduled to be installed at the Welland Transit Terminal by June, Horianopoulos said. During the pilot installation there, Horianopoulos and the rest of the Kinergy Power team will learn just how much energy Kinerbumps are capable of producing.

"It's a commercial pilot project," Horianopoulos said over the phone from the Kinergy Power office at the Centre Street Atlas Advanced Manufacturing Park. "Welland is helping us expose the technology a lot."

The plan is to install an above-ground Kinerbump at the terminal, where about 250 bus trips are made to and from everyday. Horianopoulos said interest from private investors is beginning to build, and he is in serious talks with the city of Toronto about installing devices there.

Placing Kinerbumps at high traffic areas, such as the Ontario Food Terminal in Toronto, where 2,200 trucks arrive and leave daily, could result in some serious green energy being made available for the Ontario power grid.

Toronto also has several speed humps; in a regular year as many as 200 are replaced there, perfect opportunities to install Kinerbumps, said Horianopoulos.

Calls and e-mails from potential investors interested in Kinergy Power continue to pour in, and Horianopoulos plans to hit the trade show circuit this summer. Kinergy Power was patented by Horianopoulos in the United States last November.

"I have a lot of calls from different investors," he said. "They want to see our business plan, projections and so on. Hopefully in the summer we can get some bigger projects."

Other potential places for Kinerbumps include intersections, store parking lots, border crossings and truck stops, anywhere there is slow moving traffic. A device for train tracks, KinerRail, is also being developed, said Horianopoulos.

Kinergy Power has some advantages over solar and wind power, because it won't require as large a footprint to operate, Horianopoulos said.

"We just add something to the existing environment," he said.

If Kinergy Power grows to the level Horianopoulos thinks it can, the devices can be assembled right here in Welland by the community's skilled workforce, he said.

The city has been great in helping him get started, by linking him to the Innovative Industrial support program, getting resources in research and development from community partners including Brock University and Niagara College.

“At this point, it’s kind of a community effort,” he said.

For more information on Kinery Power, visit [www.kinergypower.com](http://www.kinergypower.com).

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