

# Google offers big prize for small power box

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Google teamed with the Institute of Electrical and Electronic Engineers to back a "Littlebox Challenge" promising to reward whoever comes up with the best design for a device no bigger than a laptop that can

efficiently convert direct current to alternating current commonly used in homes and businesses.

Renewable energy sources such as solar panels and wind turbines create direct current that must be converted into alternating current, the system for which now involves complex power grids and sources such as fossil or nuclear fuels.

The challenge is to shrink power converters to about a tenth of their present size, which was described as on par with large picnic coolers.

"There will be obstacles to overcome; like the conventional wisdom of engineering," Eric Raymond of the Google Green Team said in an online post announcing the challenge.

"But whoever gets it done will help change the future of electricity."

Small inverters could make it possible to accomplish handy feats such as creating low-cost power grids in remote places or using car batteries to keep lights on in homes during blackouts, according to Raymond.

"We think it's time to shine a light on the humble inverter, and the potential that lies in making it much, much smaller," Raymond said.

Details of the competition were available online Wednesday at [littleboxchallenge.com](http://littleboxchallenge.com).

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