

Save Energy. Get Paid.

WiFi Smart Plugs: The "Gateway Drug" to Home Energy Automation

John Anderson, Director of Energy Markets john@ohmconnect.com CalPlug 18th Workshop October 18, 2021

(1) Flexible demand for electricity is needed to decarbonize the grid...



C) OhmConnect

...and **(2)** automation of households' electric loads is necessary to achieve flexible demand at scale...



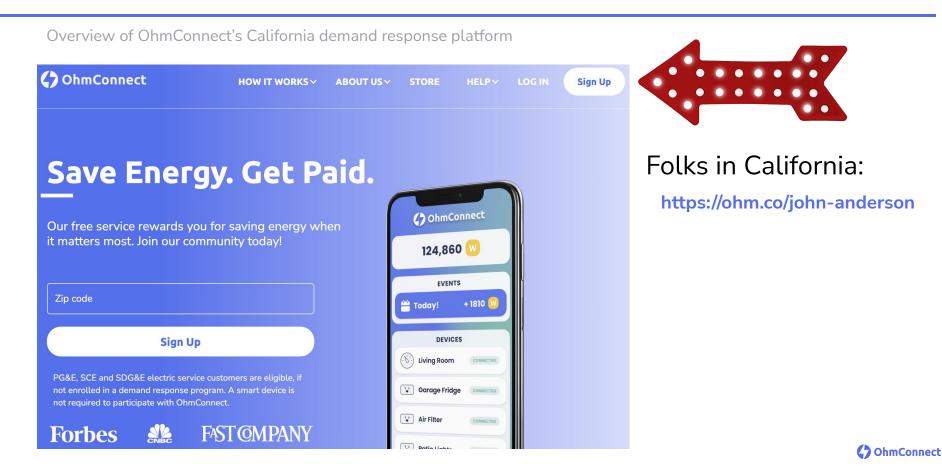
...but (3) many households face barriers to adopting energy automation technologies.



• WiFi smart plugs can overcome common barriers to home energy automation, thereby catalyzing the flexible electricity demand needed to decarbonize the grid

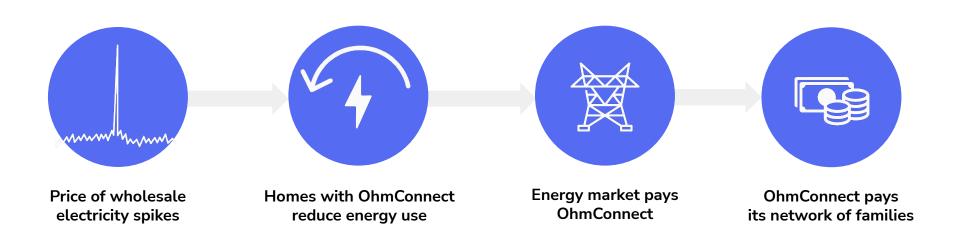


Pause for shameless self promotion...



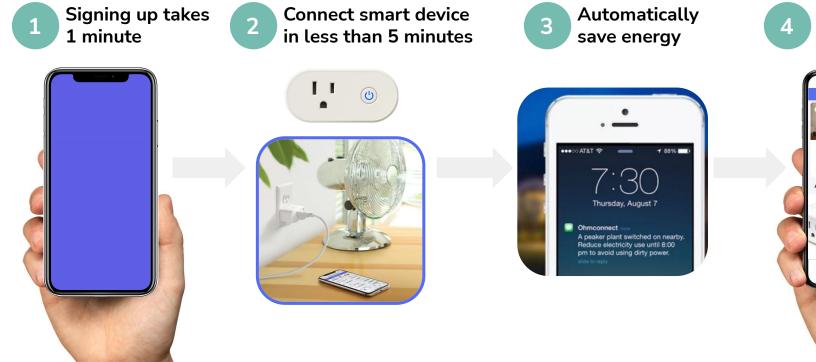
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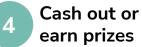
185,000 active OhmConnect customers have earned \$15 million for saving energy



Pause for shameless self promotion...

Easy to sign up, connect an automated device, and start saving immediately

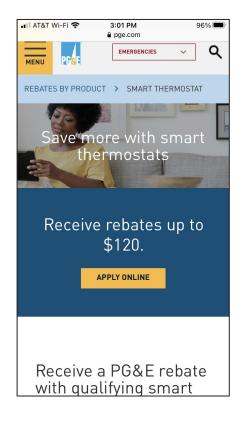






OhmConnect hardly first to incentivize home energy automation

But most utility-provided incentives are for intermediate/advanced technologies like smart thermostats





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ENROLL NEST THERMOSTAT ENROLL HONEYWELL HOME THERMOSTAT ENROLL EMERSON SENSI THERMOSTAT There are many reasons households may be unable or unwilling to automate control of their energy use

- **Sost** Smart devices (thermostats, appliances, etc.) are expensive
- **Mome ownership** Renters not incentivized or allowed to install technology
- **K** Installation Technology can be difficult to install (or uninstall)
- **Security** Control of your home's energy use by a third party can seem scary
- **Compatibility** Smart devices often belong to competing "ecosystems" (Amazon Alexa, Google Home, etc.)

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What's in your outlet?

- Gost Inexpensive (retail for as little as \$10)
- https://www.commership No need for landlord's permission
- **K** Installation Setup is (literally) plug-and-play
- Security Control is limited to what is powered by the plug
- **Compatibility** Works with most smart home platforms

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Smart plugs do more than just direct load control

Scheduling and remote-control capabilities provide convenience and security in the home

"In the winter, I keep my bedroom heater plugged into my smart plug and set a schedule for it to turn on for 30 minutes before I wake up. This way, the room is toasty when I wake up and I don't need to turn on the thermostat for the whole house."

> "We use [a smart plug] as our nightly bedtime reminder! It's hooked up with a power strip that has the TV and light source for the living room. Come bedtime, it's lights out – literally."

"I plug my garage door opener into the smart plug when I go on vacation. I turn it off and no one can open the garage door with a scanner because it has no power. When I come home I turn it on from my phone and my garage door opener works again." Consider how OhmConnect customers with smart plugs compare to those without

✓ More likely to reduce load during demand response events

More likely to connect **advanced technology** like smart thermostats

Less likely to drop off the OhmConnect platform (i.e. "churn")

Search More likely to **refer friends and family** to the OhmConnect platform

More likely to **engage with content** from OhmConnect (e.g. email and SMS)



Questions?

