

practical implementation of smart energy efficiency solutions

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WANT TO FREAK OUT YOUR NEIGHBORS?



**NAME YOUR HOME WiFi ROUTER,
"FBI SURVEILLANCE VAN #4"**

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20+ years Home Control / Automation...now known as “Internet of Things”



What are the opportunities and challenges for deep energy savings using connected devices?

What is the energy impact of plug loads in zero net energy homes/home of the future?



What are the opportunities and challenges for deep energy savings using connected devices?

Peak Demand (load shedding)

Intelligent usage

Awareness

Peak Demand (load shedding)

It is much typically much more expensive to use all your energy for the day all at the same time.



Intelligent usage



Automation that helps the consumer use what they need, when they need it, without special thought.

Awareness



www.theguardian.com

Provide information to the consumer when wasteful / expensive behavior is occurring.

What is the energy impact of plug loads in zero net energy homes/home of the future?

Challenging

Challenging

Constantly changing
Can be mitigated through
intelligence and awareness
(messaging to the consumer)



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Cloud Services



Apps (iOS, Android, Windows)



Hubs & Bridges



Thermostats



Switches, Keypads & Outlets



Bulbs



Plug-in Modules



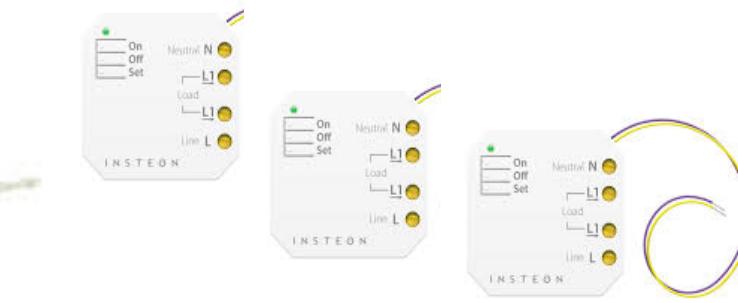
IP Cameras



Florescent Dimmer



Inline Modules



Micro-Inline Modules



Din Rail Modules



Bulbs

Plug-in Modules



AV (Infrared & Serial)



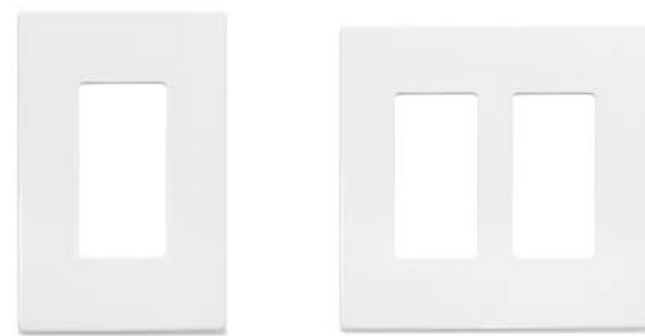
Wireless Switch



Mini Remotes



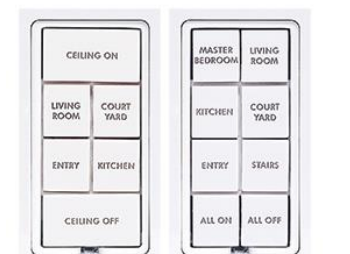
Trim Plates



Color-change



Etching Services



I N S T E  N[®]

Range
Reliability
Scalability
Compatibility

200 Products – 3,000 Retail Outlets – 100 Countries