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**FADRS™ GIZMO™**

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IoT “Micro-Building Automation” Edge Control System

Fully-Automated Energy Load Management & Control

# Today's Power Problem

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- Too much electric demand running through antiquated power grid in the USA
- Current energy costs are ~19% of total building overhead
- 30 million US Small Businesses representing 80% of the US economy cannot afford a Building Automation System (BAS) and are “shut out” from achieving significant energy savings and Demand Response.
- Very Affordable for SMB...levelizes playing field versus Big Business.



# Solution: **FADRS™ GIZMO™**

New energy problems require new **DISRUPTIVE** energy solutions

*Patented hardware/software solution that automatically throttles energy usage to help small businesses reduce overhead costs associated with energy*

- ~**11%** reductions in overhead costs
- **15% - 25%** decrease in annual energy costs
- **25% - 35%** annual energy savings from Peak KW demand reduction and Power Grid Incentives
- **Fully** Automated
- **No** Human Intervention
- Very **Robust WIRELESS** HVAC, lighting & Plug Load Control
- Data Analytics & Fault Detection



# How does **FADRS™ GIZMO™** achieve such high performance?

Disruptive **SOFTWARE** technology that performs in a novel way

- *Three patents from the US Patent and Trademark Office*

Using AI, Prediction & Human Centric Technology it is FULLY Automated

- *Responds to power grid signals within **one** second*
- *Communicates bidirectionally between the power grid and job site in real time*
- *Performs thousands of calculations every second to determine which are the “smartest” actions*

Generates Power Grid Incentives by reducing 30% - 60% KW Demand during a Demand Response (DR) event **and building occupants are comfortable.**

- *National average **from competition** is only 10% **and building occupants are uncomfortable.***

Performance in KWh and Therms savings is exponentially improved and is 3 to 5 times the national average

**Comfortable building occupants = more productive environment = wide acceptance.**



# INSTALLED COST TO YOU?

10% of the cost of a comparable Commercial Building Automation System

Approximately \$14,000 installed for each piece of HVAC equipment at your job site. Should qualify for 70% incentive from most utility companies under Direct Install Program.

**Net Installed Cost to YOU? \$4,200 for each piece of HVAC equipment.**

**Payback? ~ 1.5 – 2.5 years!!**

Most DISRUPTIVE patented invention for the SMB in decades which, for nominal cost, can be expanded to include lighting and plug load control. <sup>5</sup>



# Thank You!

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