

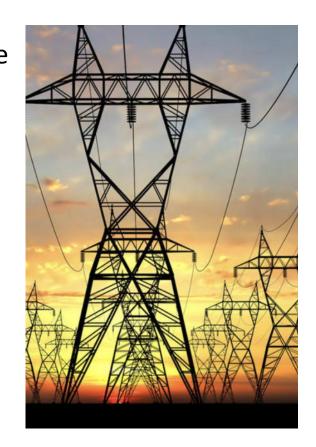
# FADRS M GIZMO

IoT "Micro-Building Automation" Edge Control System

Fully-Automated Energy Load Management & Control

# Today's Power Problem

- 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 <u>un</u>comfortable.

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. 5



# Thank You!

#### **Consolidated Energy Design, Inc.**

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