

- || - NETWORKED APPLIANCES
  - PROTOCOLS
  - NEW PRODUCTS

- DIGITAL CONVERTER BOXES

- \* - RECHARGABLES; - WHAT'S OUT THERE
  - WHAT'S PLUGGED IN

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- ||| - <sup>PRIORITIZE</sup> CONSERVATION SUPPLY CURVE

- ~~PERCENT TIME USED, OVERCHARGED~~

- SINGLE VS. MULTI-FAMILY

- INTERNATIONAL MARKET/COURT

- ||| - BATTERY-CHARGED (CARS, LAWNMOWER)
  - OPTIMAL CHARGING

- 1. DO TEST PROCEDURES APPLY
  - VA & ENERGY
  - EXTERIOR LTC STUDY AS MODEL
- 2. METERING EQUIPMENT  $\left\{ \begin{array}{l} W \\ kWh \end{array} \right.$ 
  - NO UNPLUGGING
  - END USE FROM HARMONICS
- 3. POWER QUALITY
  - RETROFIT EXISTING EQUIP  
(EG. - USB SWITCH FOR PERIPHERALS)

two

# RESIDENTIAL

- STATISTICAL SAMPLE
  - SITE AUDITS
  - EXISTING/NEW HOMES
  - NEW PRODUCTS
- TAXONOMY
- WHAT'S BEING SOLD (RANGE OF EFFICIENCY)
- TRACK PROGRESS
- RES/COM
  - WHAT'S PLUGGED IN, NOT USED (WALL-WARTS, CHARGERS, ...)
  - WHAT'S BOUGHT, NOT PLUGGED IN
  - ALL LOADS (ACTIVE + STANDBY)
    - HOURS PER MODE
- BEHAVIORS
  - WHAT CONSUMERS WANT
  - HOW USED ← % TIME USED
- POTENTIAL FOR PV/DC POWERED
- (USB POWER BUTTON) - "HOUSE OF FUTURE"
- LINEAR vs SWITCH-MODE POWER SUPPLIES (COSTS)

three

EXPLAIN VARIANCE |||

TAXONOMY I  
SPECIES BY GROUP

~~PUBLIC EDUCATION +~~

LOW POWER TECHNOLOGIES I |||  
- ESP BATTERY POWERED DEVICES

four

CREATE TAXONOMY  
EMERGENCY COMMUNICATIONS

- LIGHTING

- UPS

- LIFE SAFETY

- SECURITY

- WHAT STANDBY IS NECESSARY - <sup>|||</sup>TECH POTENTIAL

ROUTERS  
SERVERS  
PHONE;

OTHER

- PERIPHERALS

- TRANSFORMERS

- AUDIO

- SENSORS

- HVAC

- SPECIALTIES

- INDUSTRIAL

# CCMML+

- IDENTIFY STANDBY USES - BY USERS - BY BLDG TYPE
- EMS DATA - ~~###~~ SUBMETERS (NIGHT)
  - WHAT IS NOT IN STANDBY (E.G. SERVERS) (BIOTECH)
- EFFIC. OF POWER SUPPLIES
  - POWER OF EMERGING PRODUCTS
  - TOTAL STANDBY OF NEW UNOCC. BLDGS
  - CBECs - ADD QUESTIONS?
  - IMPACT OF TELECOMMUTING
  - STRATEGIES FOR REDUCING
  - CATEGORIES: - EMERGENCY EQUIP
    - COMMUNICATING
    - ARCHITECT VS USERS
  - PUBLISH DIRECTORIES