Energy Tools

Energy labs-tools

1. **Kill-a-Watt**
    1. Volts-should be around 120V, AC or DC?
    2. Amperes-only when loaded, test with hot water heater
    3. Watts-sometimes = volts x amps, but not always
    4. power factor: only 1.00 with heaters (ohmic loads)
    5. Hz: 60 here, 50 other countries
    6. Use to determine vampire loads
2. **VOM meter**
    1. Ohms-measure across your body-why does it change?
    2. Volts;DC for batteries, AC for outlets
3. **eGauge**
    1. campus energy used
    2. campus energy produced
    3. smaller buildings: faculty cottages only users
    4. dorms: when do they sleep?
    5. cafeteria: why so big?
4. **Thermal camera**
    1. use to see vampire loads
    2. use to see heat loss from hot water heaters
    3. see leakage around refrigerators
    4. see thermal changes in solar hot water panels
5. **EMC and Mango**
    1. use to search for data
    2. weather, solar radiation data for calculations
    3. long term (12 years for EMC)
    4. useful for efficiency (wind, solar thermal, solar)
    5. EMC: 10.14.4.4
    6. Mango: 10.14.4.123:8080 also 163, 15, 170
    7. Elab server: 10.14.4.2 (12 year record)
6. **Weather stations**
    1. solar radiation
    2. temp
    3. wind
    4. 10.14.62.x

Migrated from Apple Server Wiki. Original page ID: Z3A2T6o3M

Revision #2
Created 2026-09-29 15:58:06 UTC by Admin
Updated 2026-09-29 16:19:16 UTC by Admin