



Analog Waveforms

A. Measure Power and Voltage

1 - second RMS Data

B. Normalize: $P_{\text{norm}} = \left(\frac{120}{V}\right)^2 P$

1 Hz Normalized real, reactive power on each leg

C. Edge detection

List of step changes

D. Cluster Analysis

Cluster of step changes

E. Build Appliance Models

On/Off models or FSMs

F. Track Behavior in Terms of Models

On and Off times of each appliance

G. Tabulate Statistics

Energy vs. Time of day

H. Appliance Naming

Consumer's name for each

Not required
in MS-NALM

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