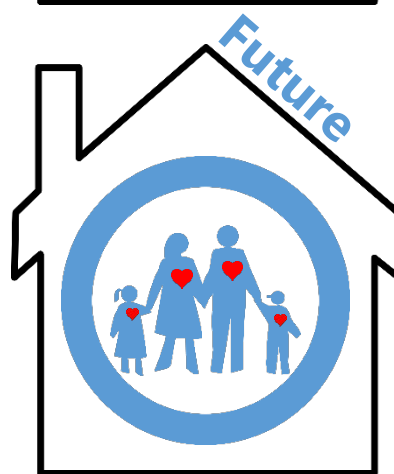
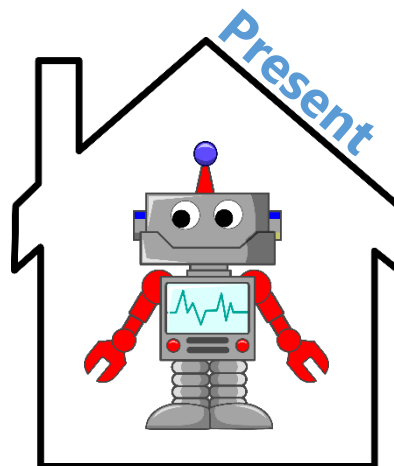
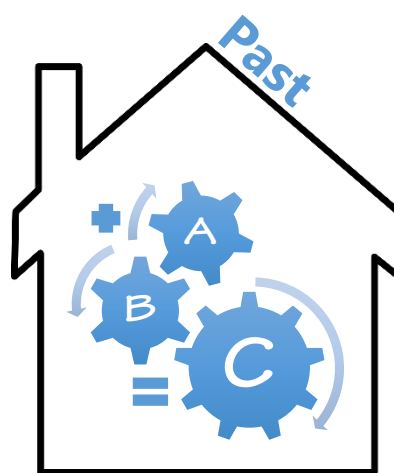
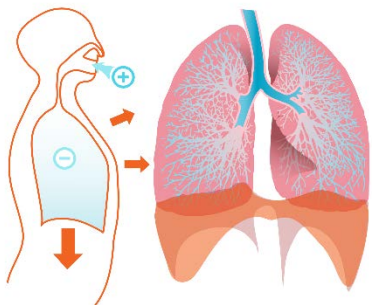
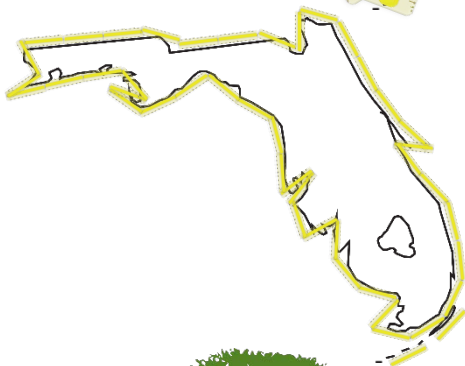
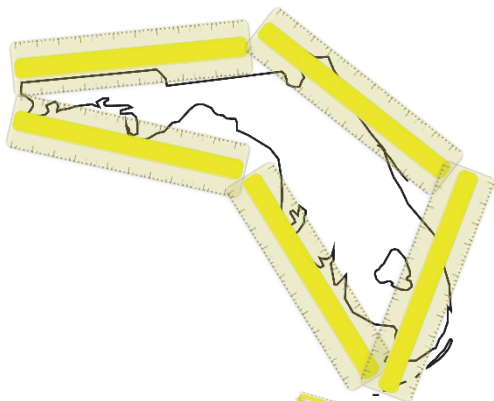


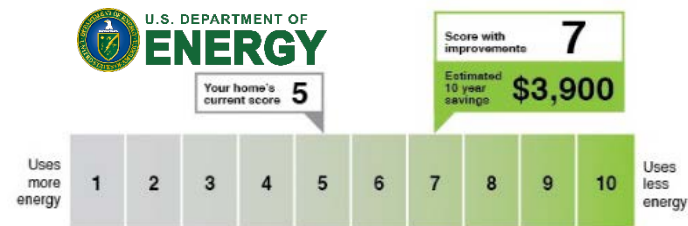
Home Is Where the Heart Is: Complexity, Pattern, & Meaning in Short Interval Residential Electric Smart Meter Data



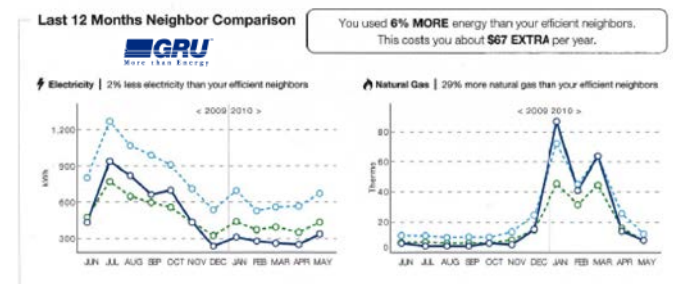
Fractals



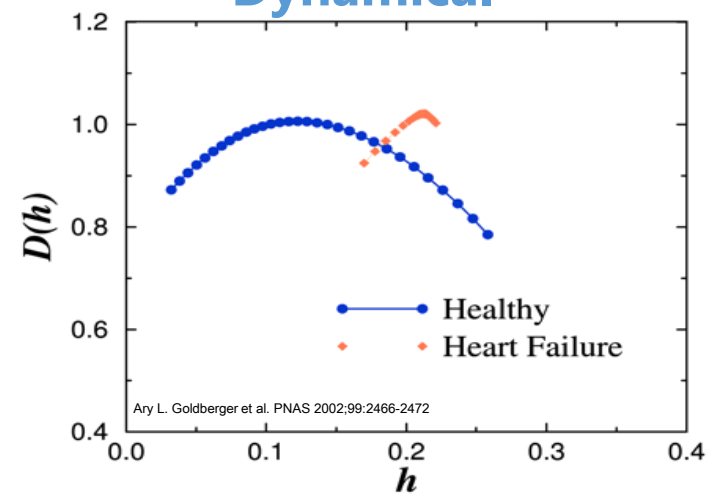
Asset Modeled

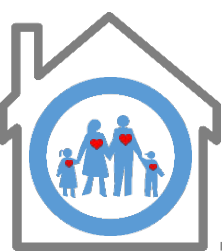


Operational



Dynamical



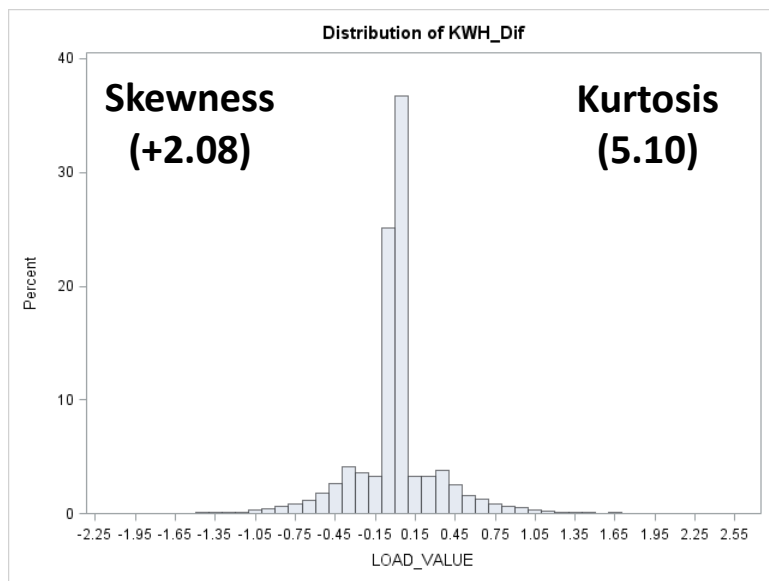


Results: Normality Testing

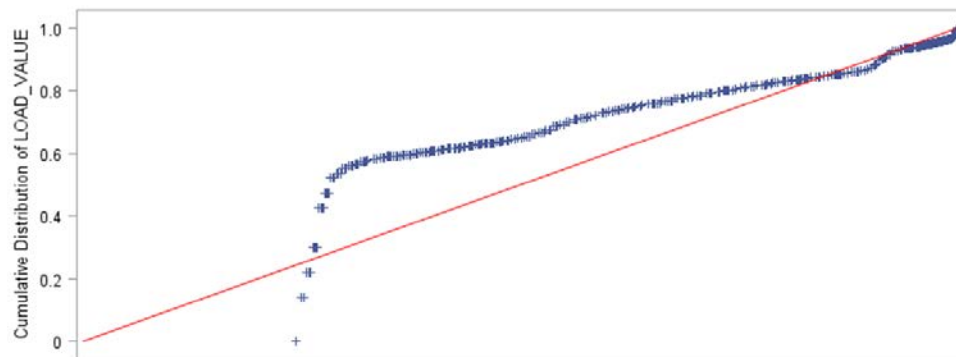
✳ JEA data overall:

- Evidence of non-normality
- Positive (right) skewness
- Leptokurtotic

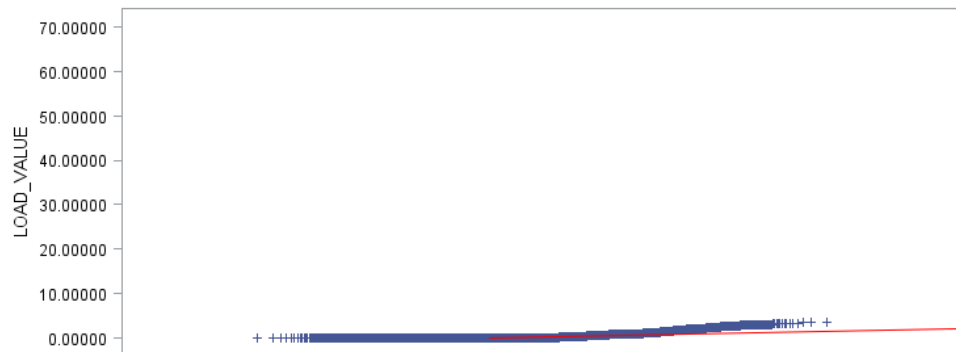
Distribution (JEA Home 91)



P-P Plot (JEA Home 91)



Q-Q Plot (JEA Home 91)

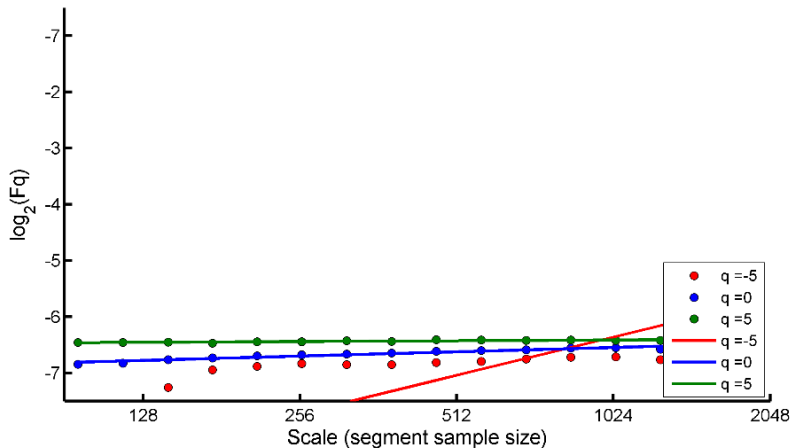




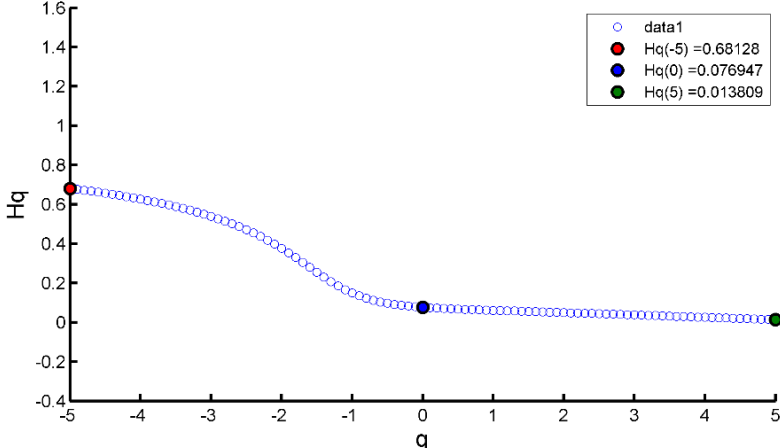
Results: MFDFA

PDR26-13

Scaling function F_q (q-order RMS with Slope = H_q)

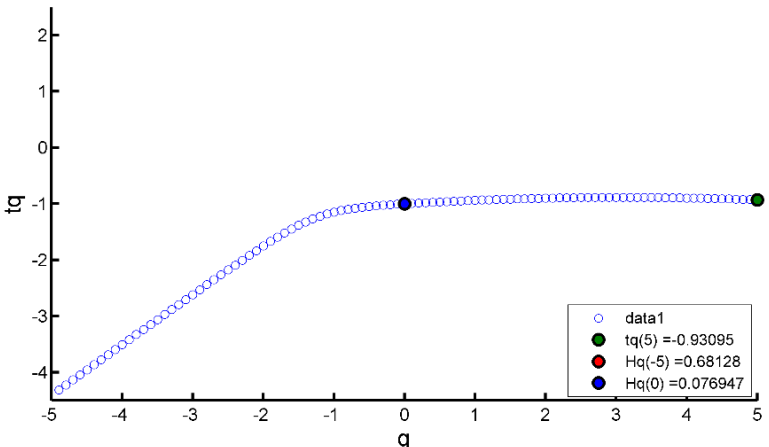


q-order Hurst exponent

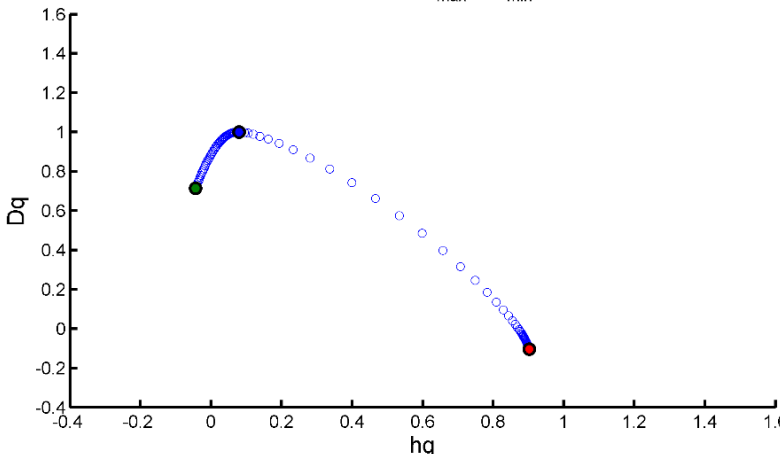


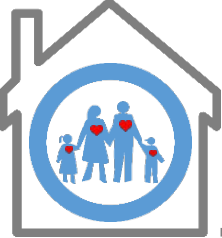
(PDR Home 26 – Lighting Increments)

q-order Mass exponent



Multifractal spectrum ($h_{q_{\max}} - h_{q_{\min}} = 0.94554$)





Results: Cluster Analysis

