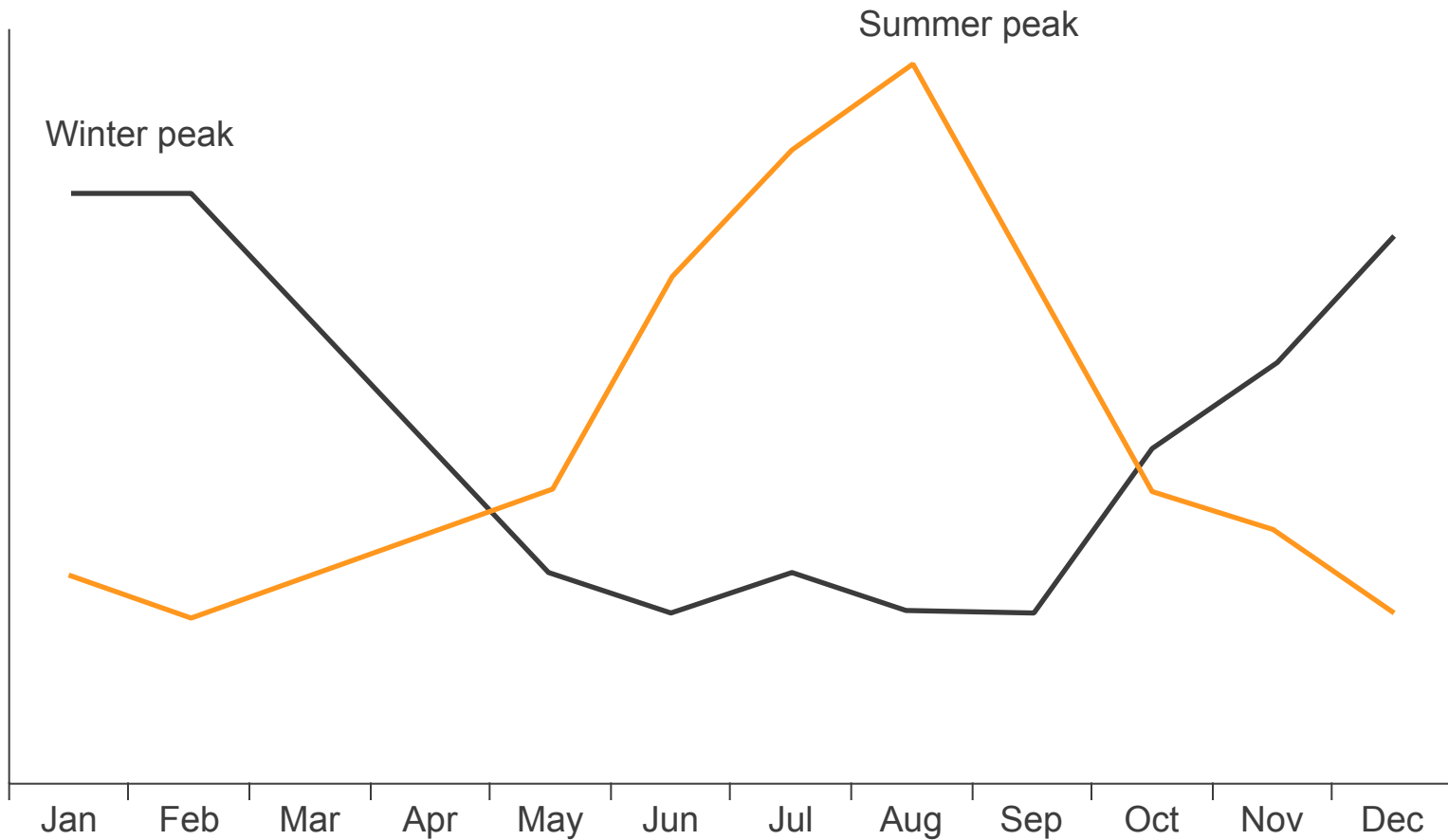


Personalization Through Load Curve Analysis

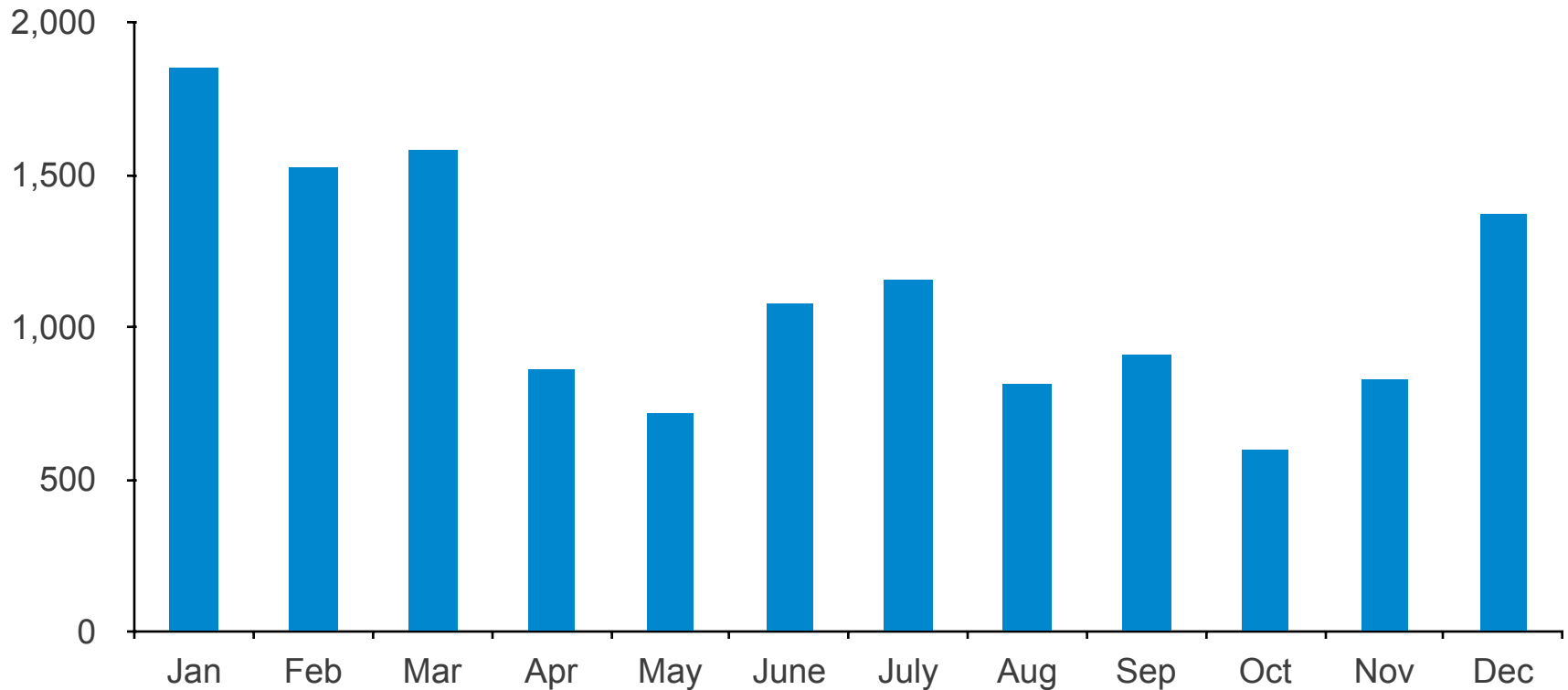
Yearly archetypes

MONTHLY ELECTRIC USAGE
KWh



Nancy is a winter peaker

NANCY 2014 MONTHLY ELECTRIC USAGE KWh



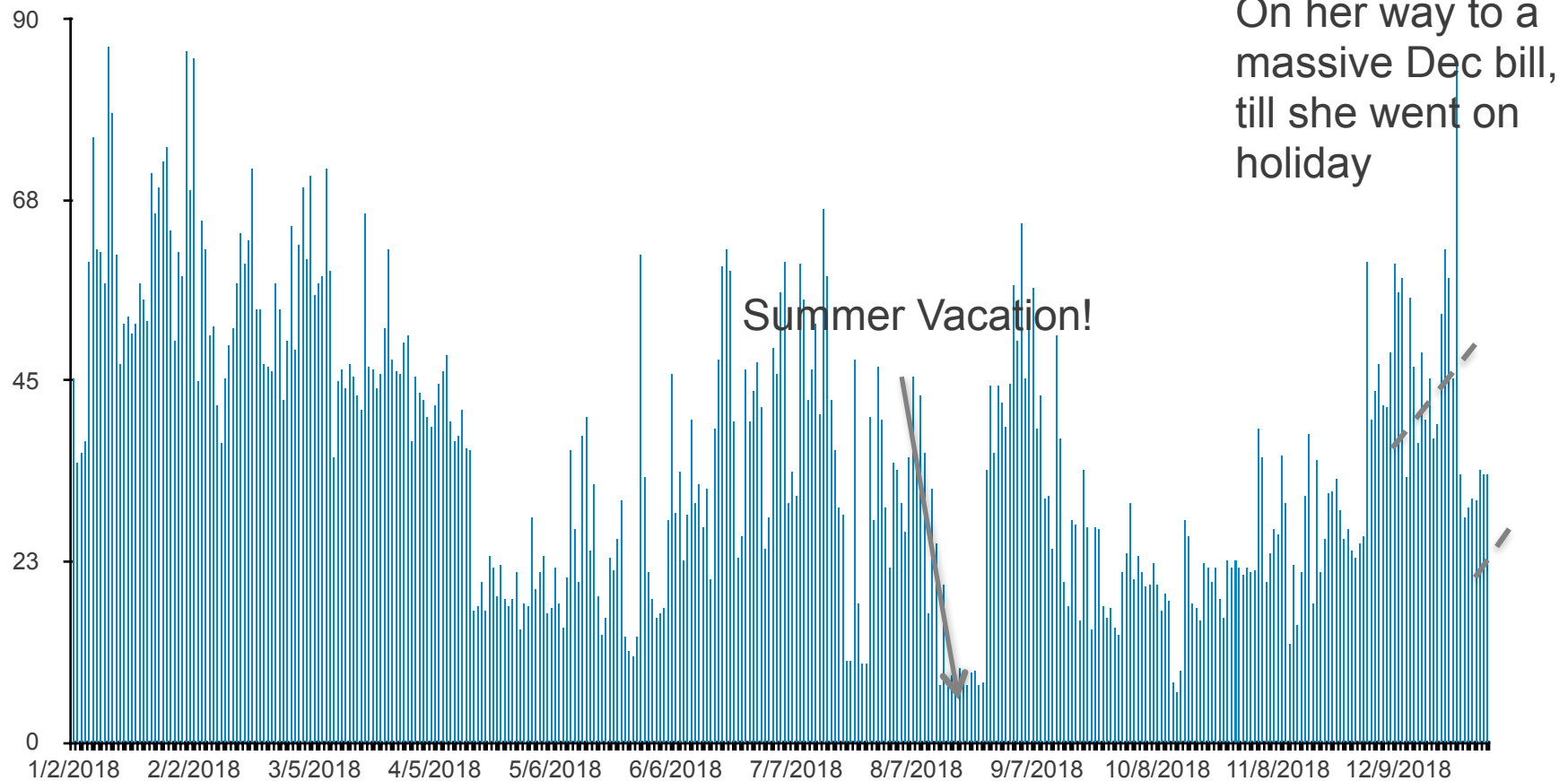
But there's more ...

Nancy has a smart meter!



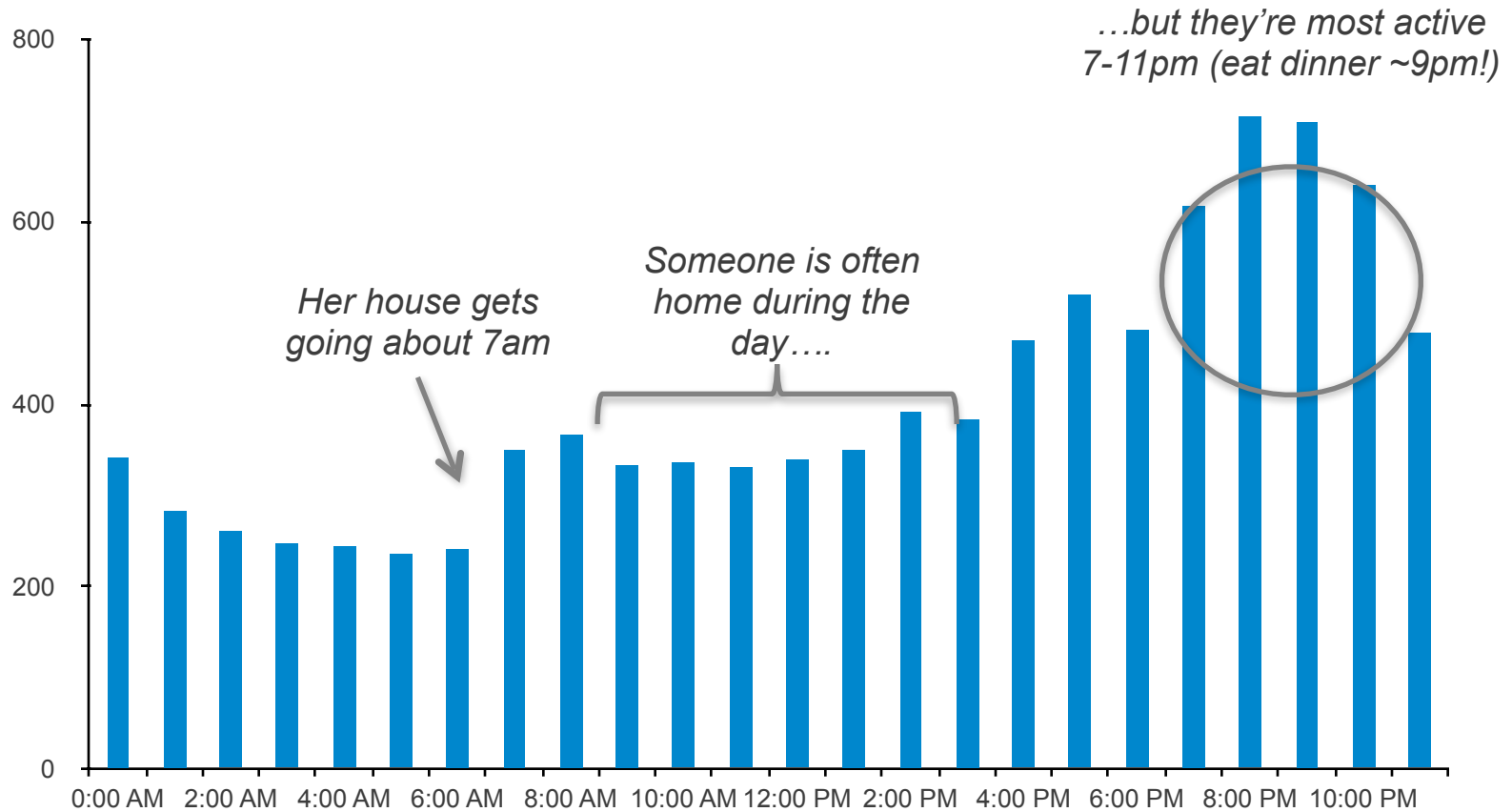
Daily data provides a peak under the hood

NANCY 2014 DAILY ELECTRIC USAGE



Hourly data opens a window into how she lives

NANCY 2014 WEEKDAY HOURLY USAGE



Profiling every customer ...

FOR A 1M HOUSEHOLD UTILITY

**2 minutes /
Household**

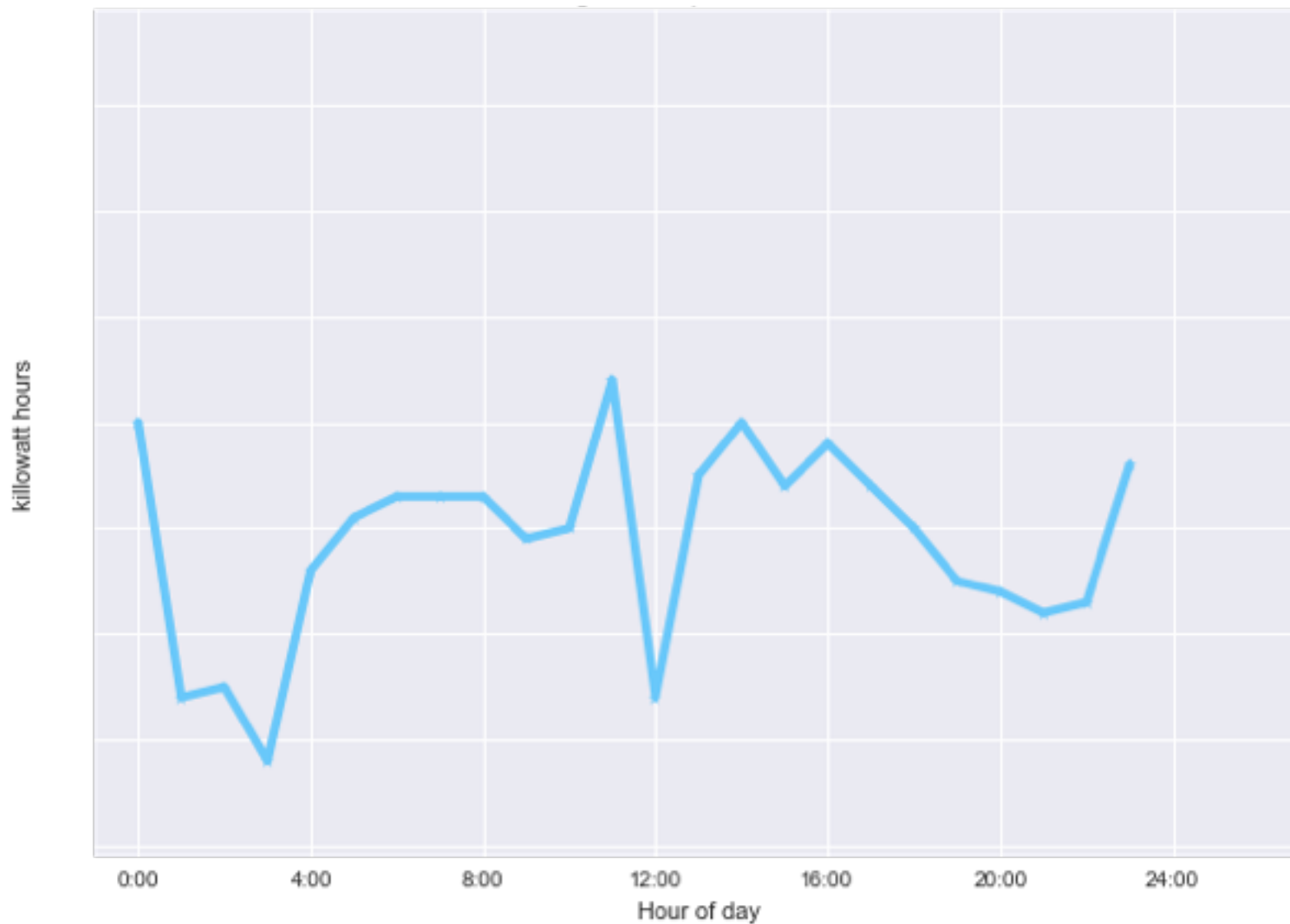


**1M
Households**

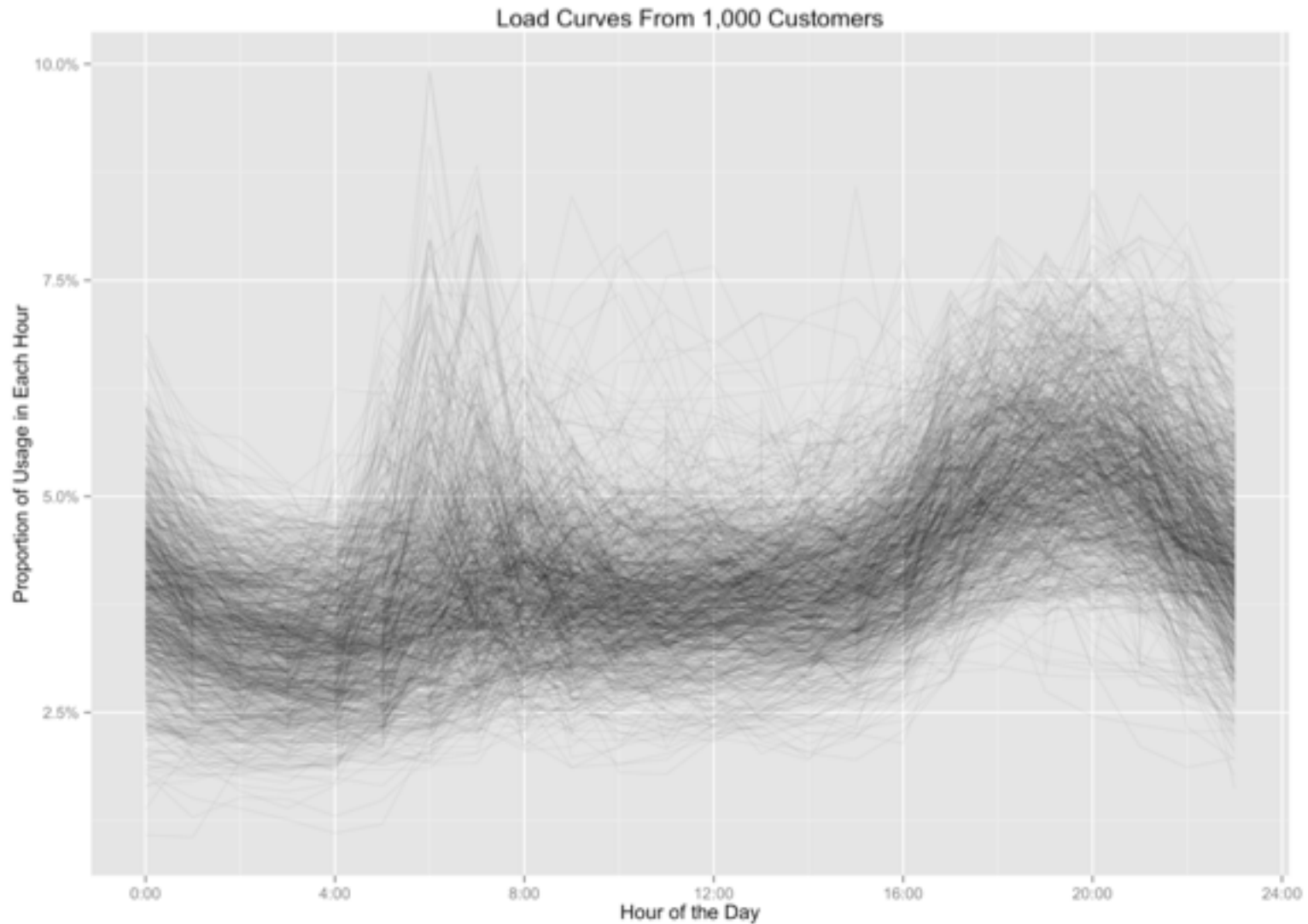


**961
years**

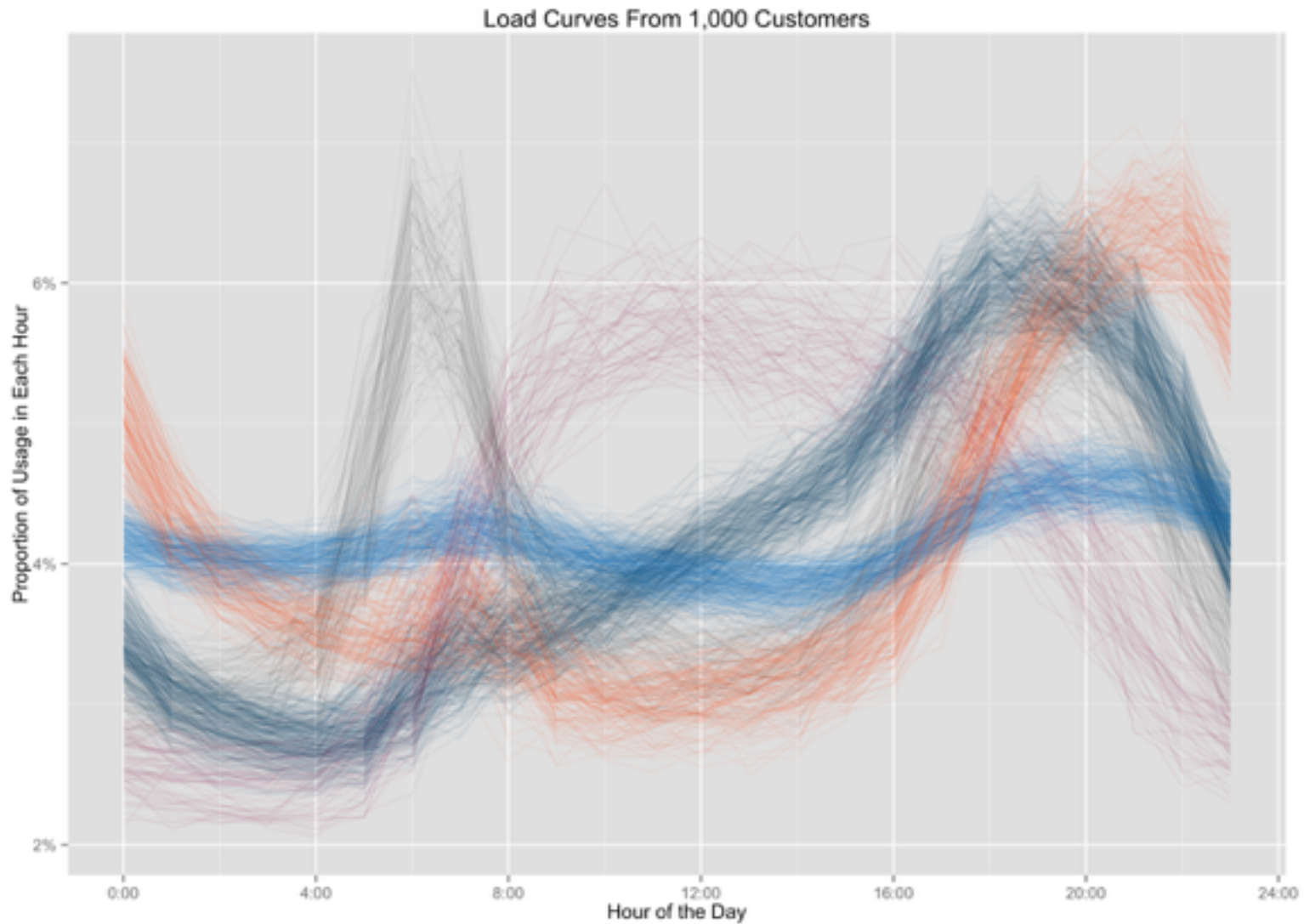
Smart Meter Data



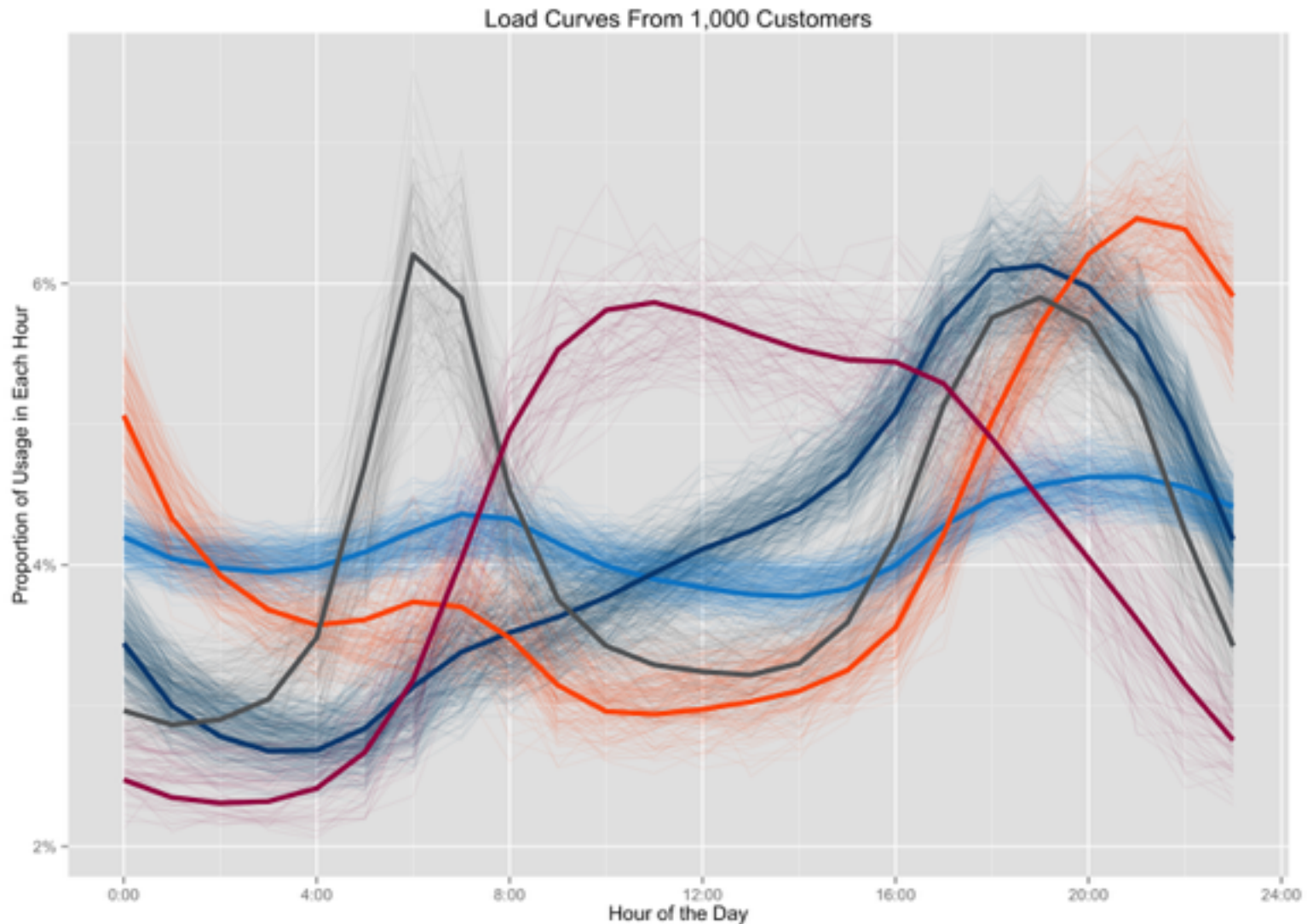
Load Curves – All Customers



Load Curves – After Clustering

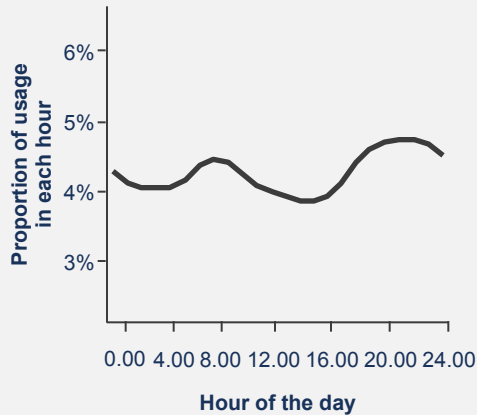


Load Curves – Cluster Centroids

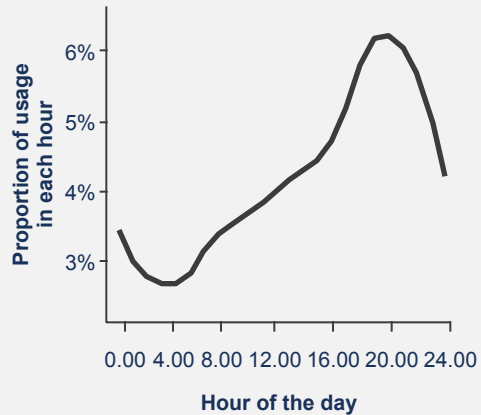


Enter the AMI archetypes

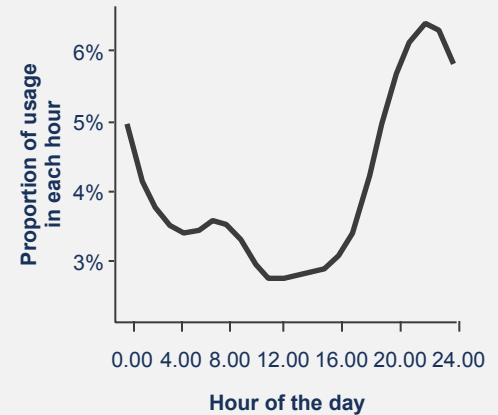
Steady Eddies



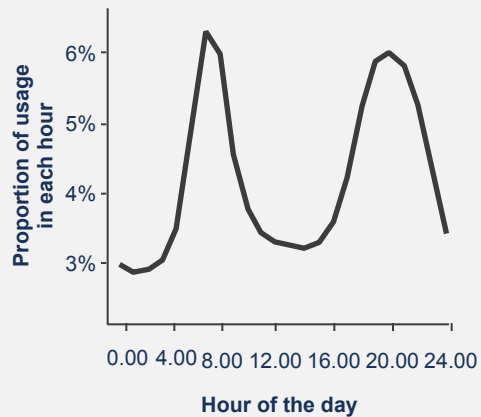
Evening Peakers



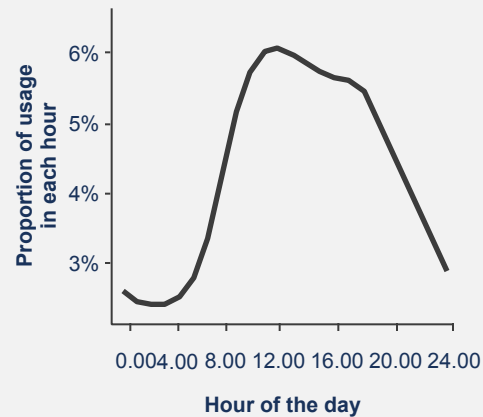
Night Owls



Twin Peaks

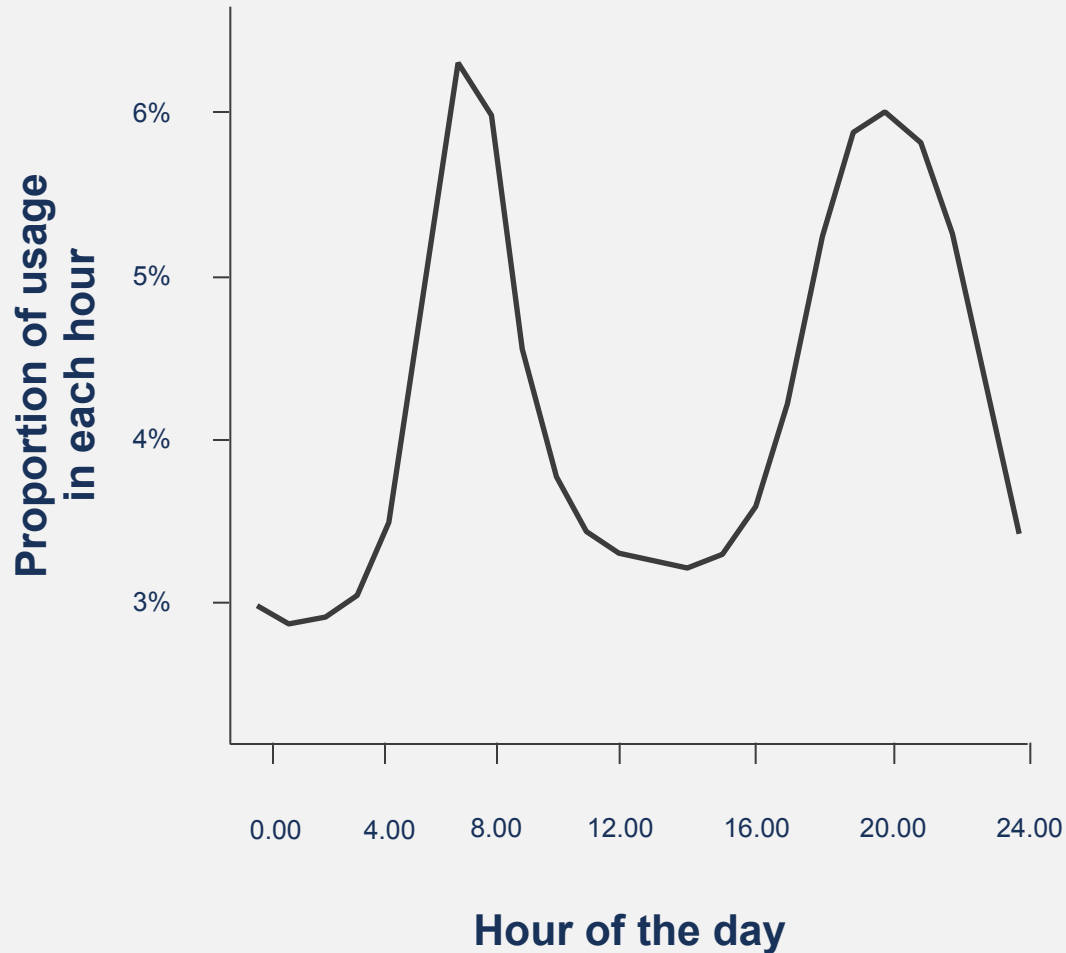


Daytimers



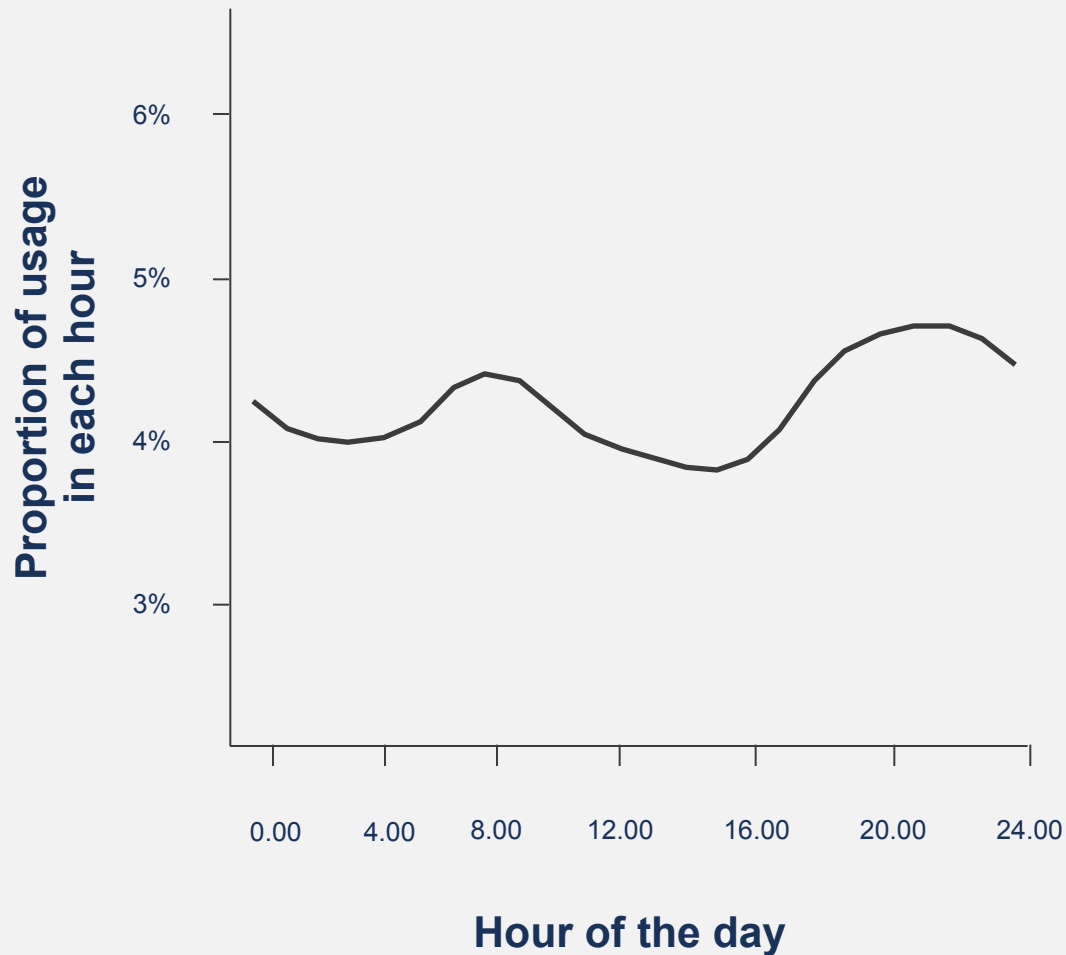
Load Curves – “Twin Peaks” Archetype

Twin Peaks



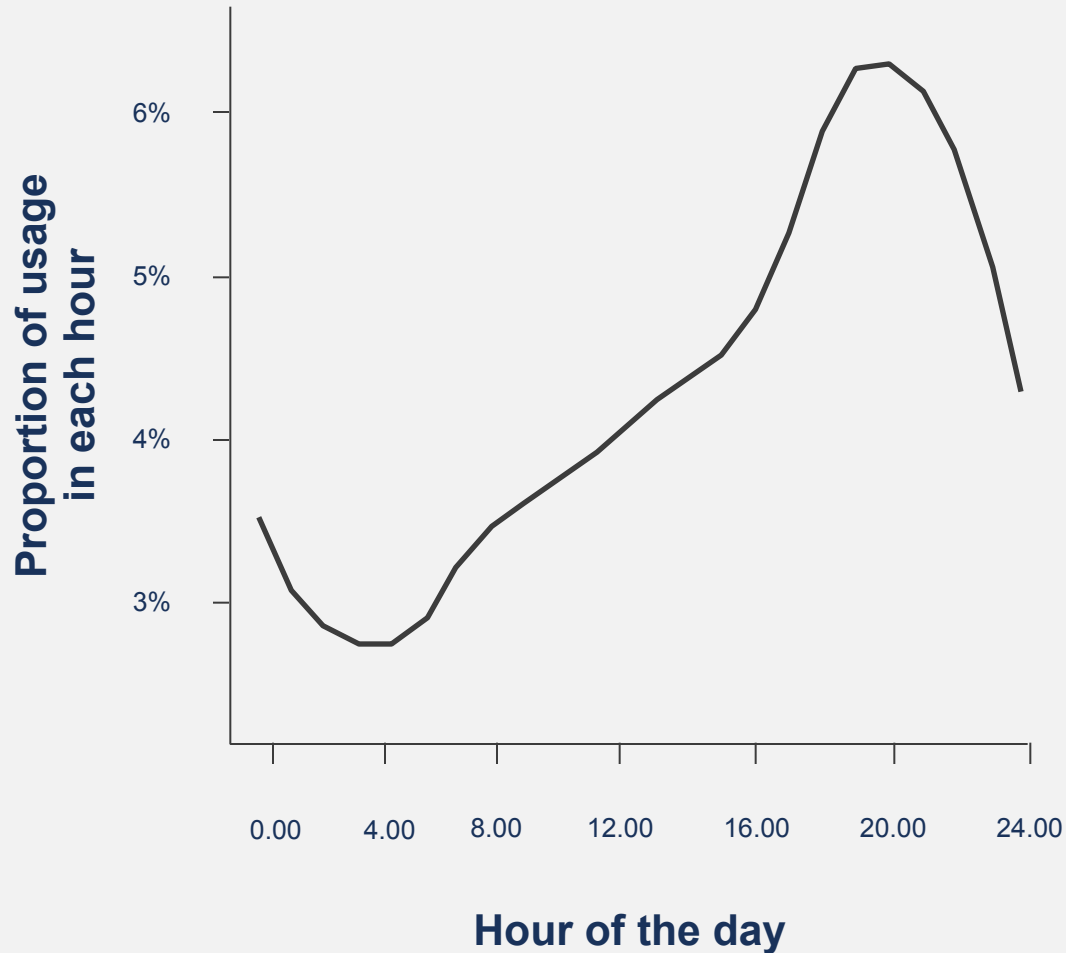
Load Curves – “Steady Eddies” Archetype

Steady Eddies



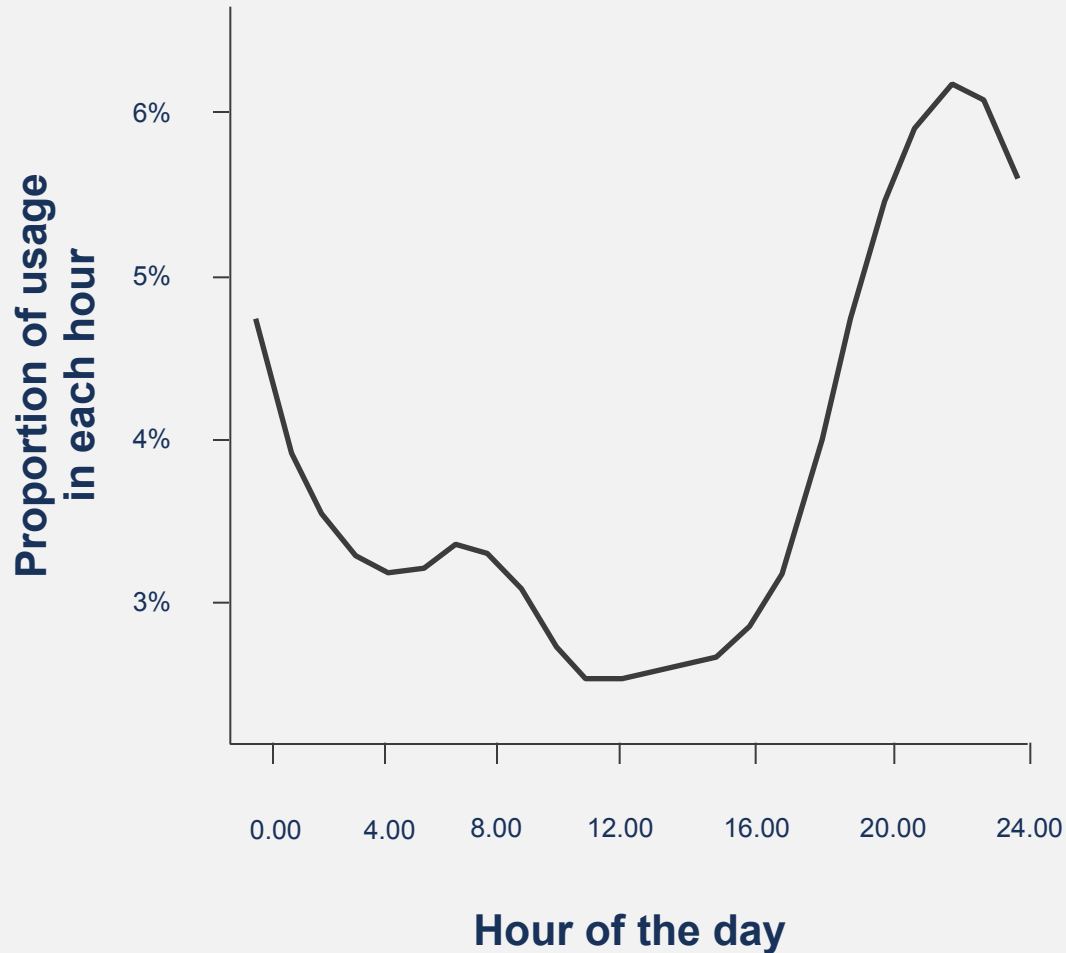
Load Curves – “Evening Peakers” Archetype

Evening Peakers



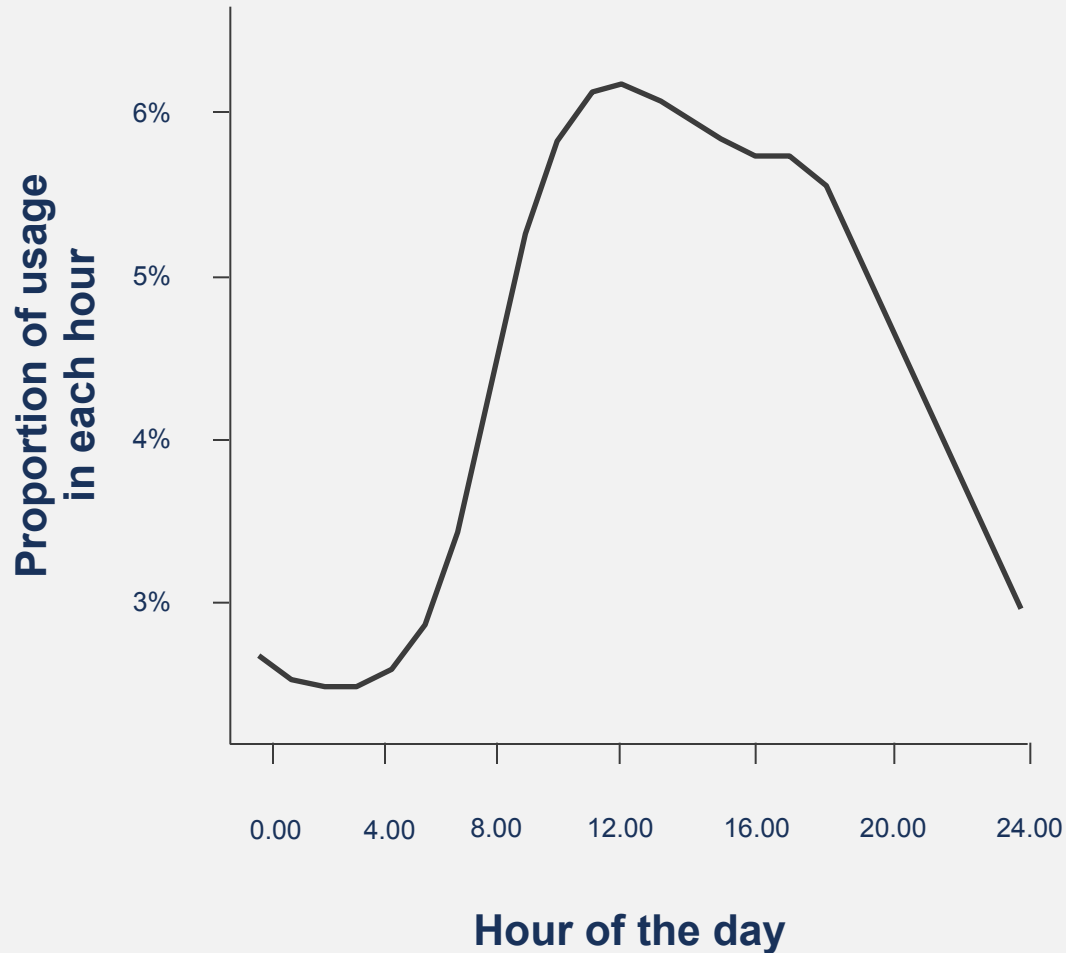
Load Curves – “Night Owls” Archetype

Night Owls



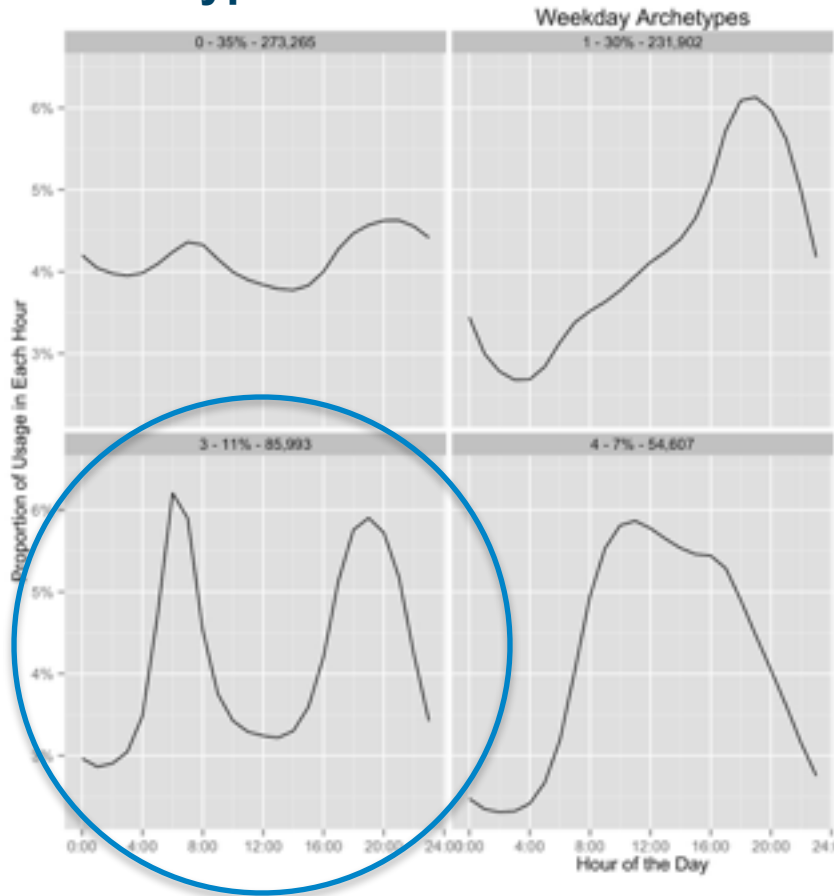
Load Curves – “Daytimers” Archetype

Daytimers

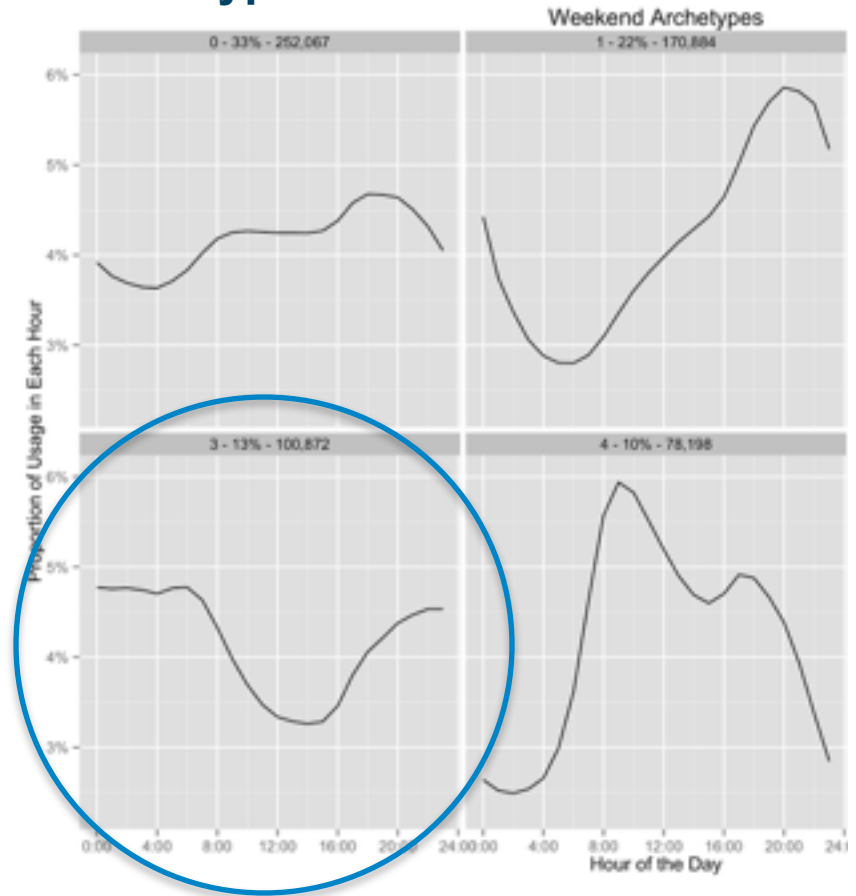


Load Curves – Weekday vs. Weekend

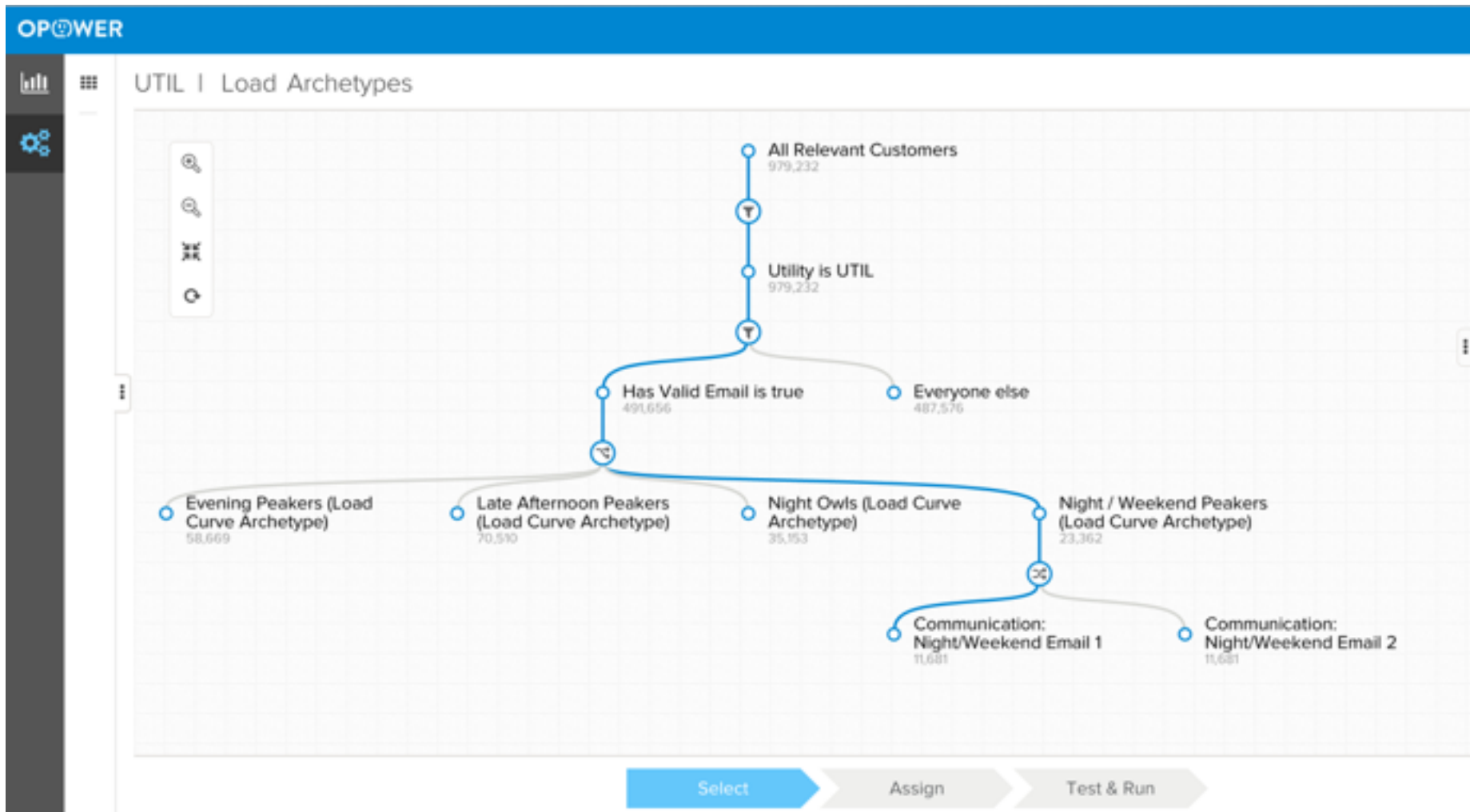
Most common weekday archetypes



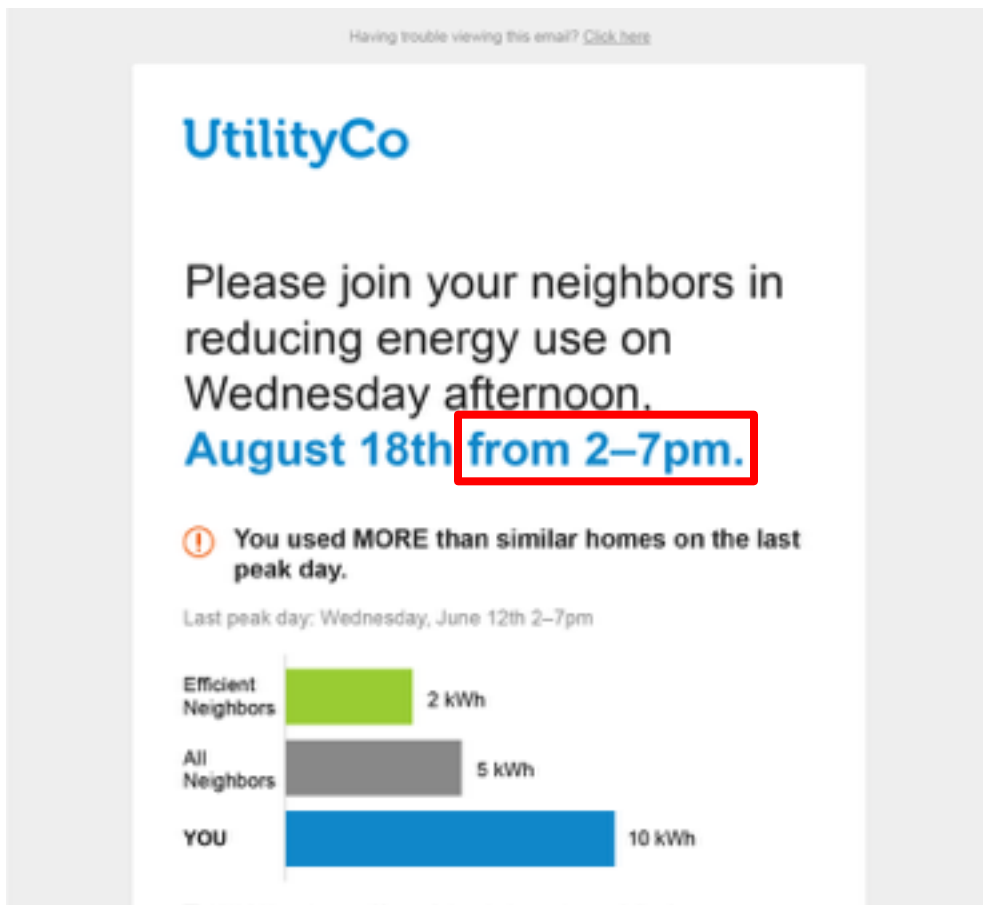
Most common weekend archetypes



Segment Customers



Target Messaging: Afternoon Peakers

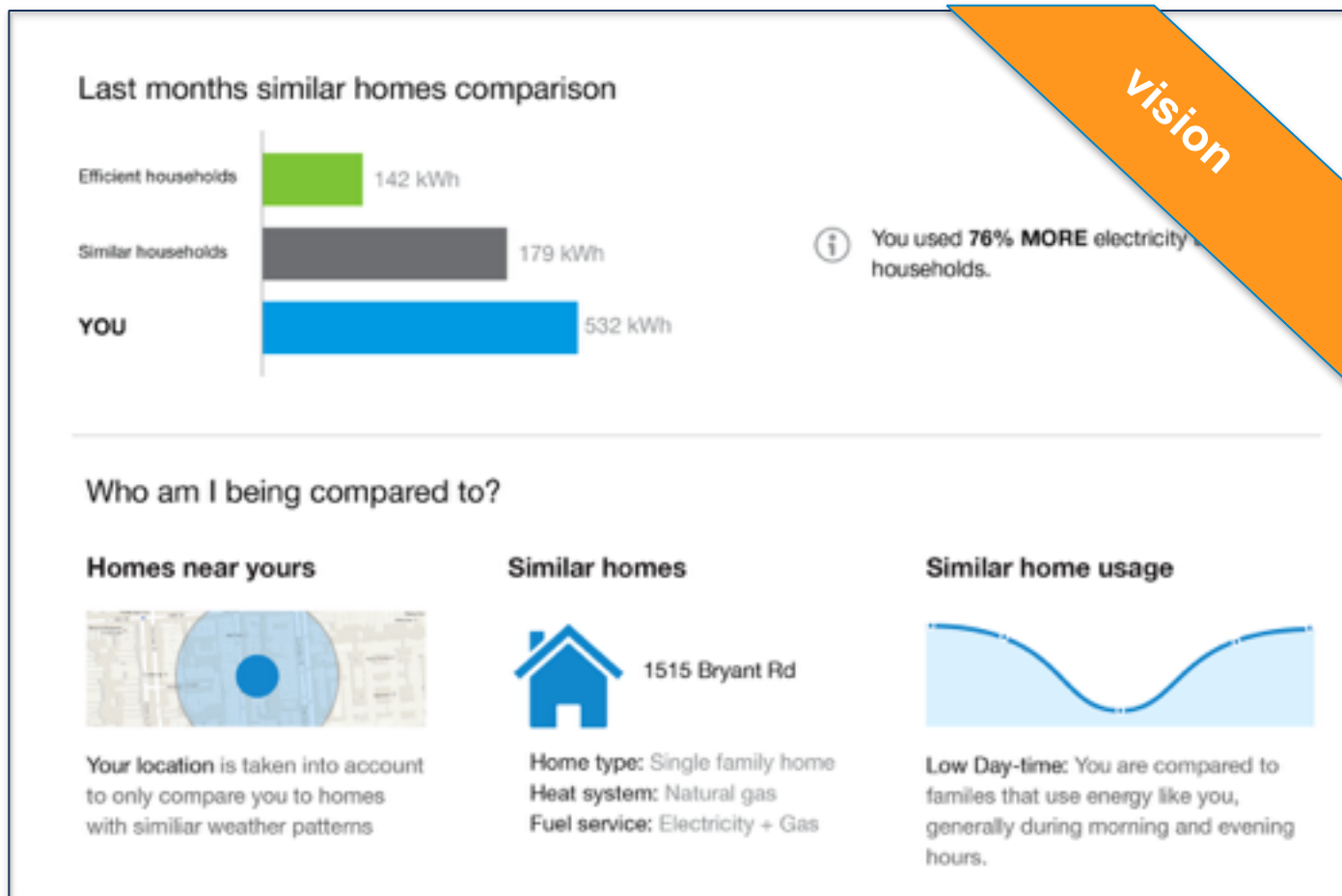


This is an alert from UtilCo: Tomorrow, Wednesday, July 10th is a peak day. From 2 PM to 7 PM, join UtilCo customers by reducing your electric use. Simple ways to save on peak days include postponing dishwashing and other large appliance use until the peak day is over. Thank you for helping us save! To opt out of phone alerts, press 9.



Drive Improved Personalization

Help drive acceptance of neighbour comparison



Drive Improved Personalization

Recommendations tailored to profile type

