What does Submetering Data Show?

Tuomo Kareoja

IOT Analytics

October 15, 2019



Agenda

Trends and Patterns

Overall Trends? Monthly Patterns Weekly Patterns Daily Patterns

What Can We See From the Data?
Use of Individual Household Items
Living Patterns

Predictive Modelling Predictive Analytics

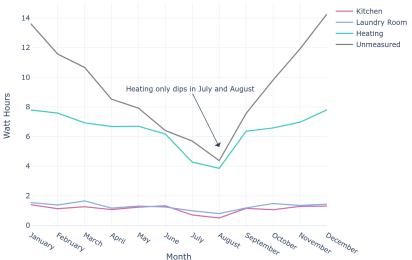


Overall Trends



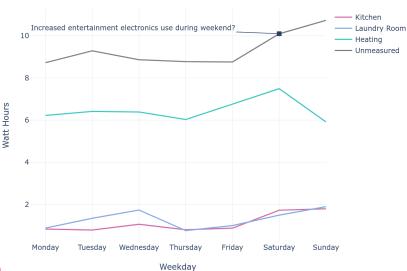


Monthly Patterns



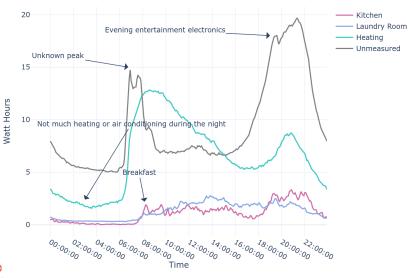


Weekly Patterns



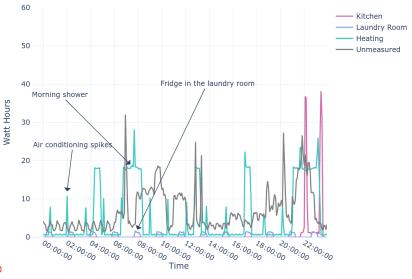


Daily Patterns



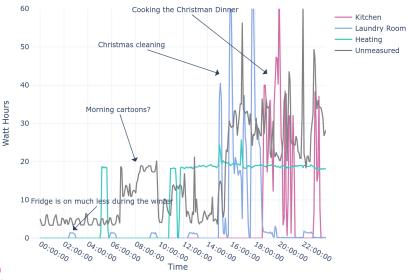


Use of Individual Household Items





Living Patterns





Predictive Analytics



1. Energy use patterns are highly sensitive data that can be used to deduce:



- 1. Energy use patterns are highly sensitive data that can be used to deduce:
 - ▶ When are people home



- 1. Energy use patterns are highly sensitive data that can be used to deduce:
 - ▶ When are people home
 - ▶ When do people cook



- 1. Energy use patterns are highly sensitive data that can be used to deduce:
 - ▶ When are people home
 - ▶ When do people cook
 - ► How often they shower
 - **.**..



- 1. Energy use patterns are highly sensitive data that can be used to deduce:
 - ▶ When are people home
 - ▶ When do people cook
 - ► How often they shower
 - **.**..
- 2. Predictive modelling of total energy use



The End

Questions?

