bidgely UtilityAI™

Unlocking Value with AMI & Analytics

Maria Kretzing, Director of Innovation

Bidgely Confidential - Do Not Forward

BIDGELY : WHO WE ARE

bidgely

is an AI-powered SaaS company based in the Silicon Valley.

We unlock the power of data and AI for the modern energy provider, enabling them to achieve their strategic goals while delighting their customers.

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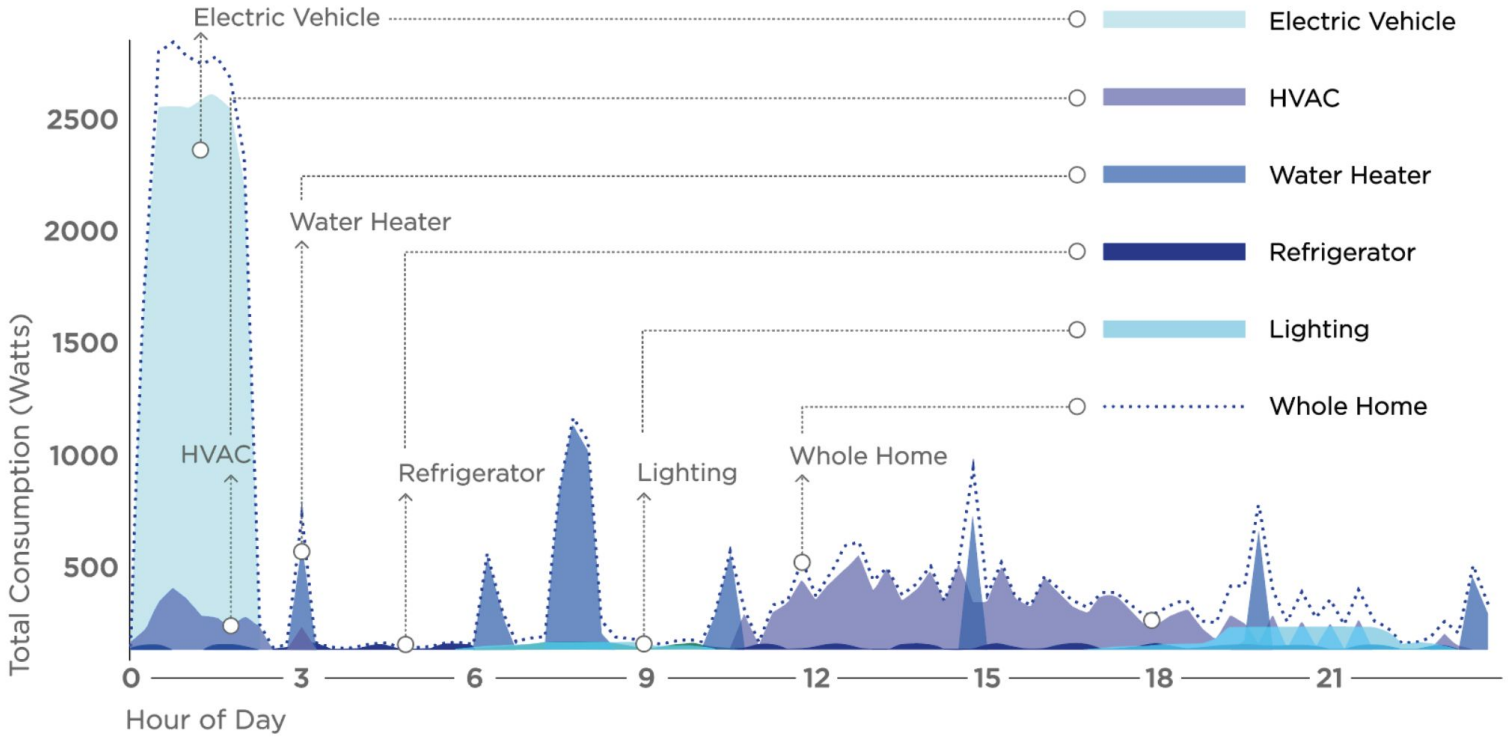
POWERED BY PATENTED DISAGGREGATION



17 Patents, Safe IP

No Hardware Required

Applicable for All Meter Types

Zero Customer Inputs Required

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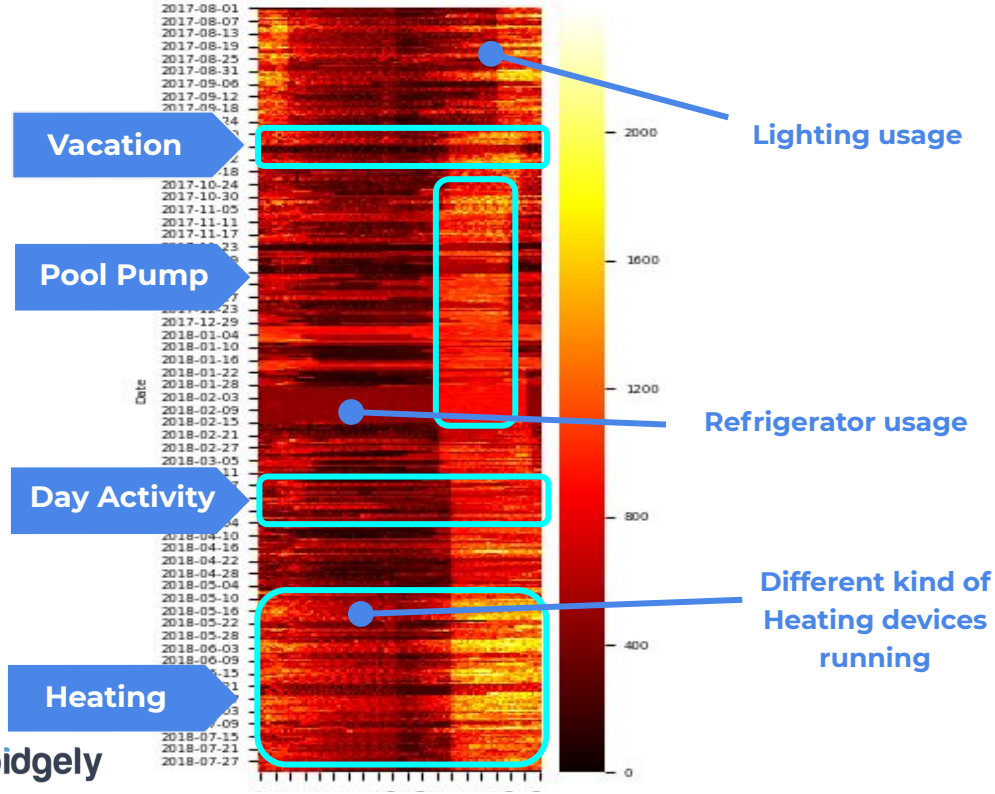
DETECTING BEHIND-THE-METER SIGNATURES

Heatmap : Many Visible & Invisible

'Visible' examples

'Invisible' examples



Industry Leading Accuracy

Device	Detection Accuracy **15 Min Data**
Always on/Baseload	100%
Electric Vehicle	90%
Air Conditioner	90%
Electric Water Heater	80%
Refrigerator	100%
Solar Panels/PV System	98%
Electric Heating	90%
Lighting	100%
Pool Pump	85%

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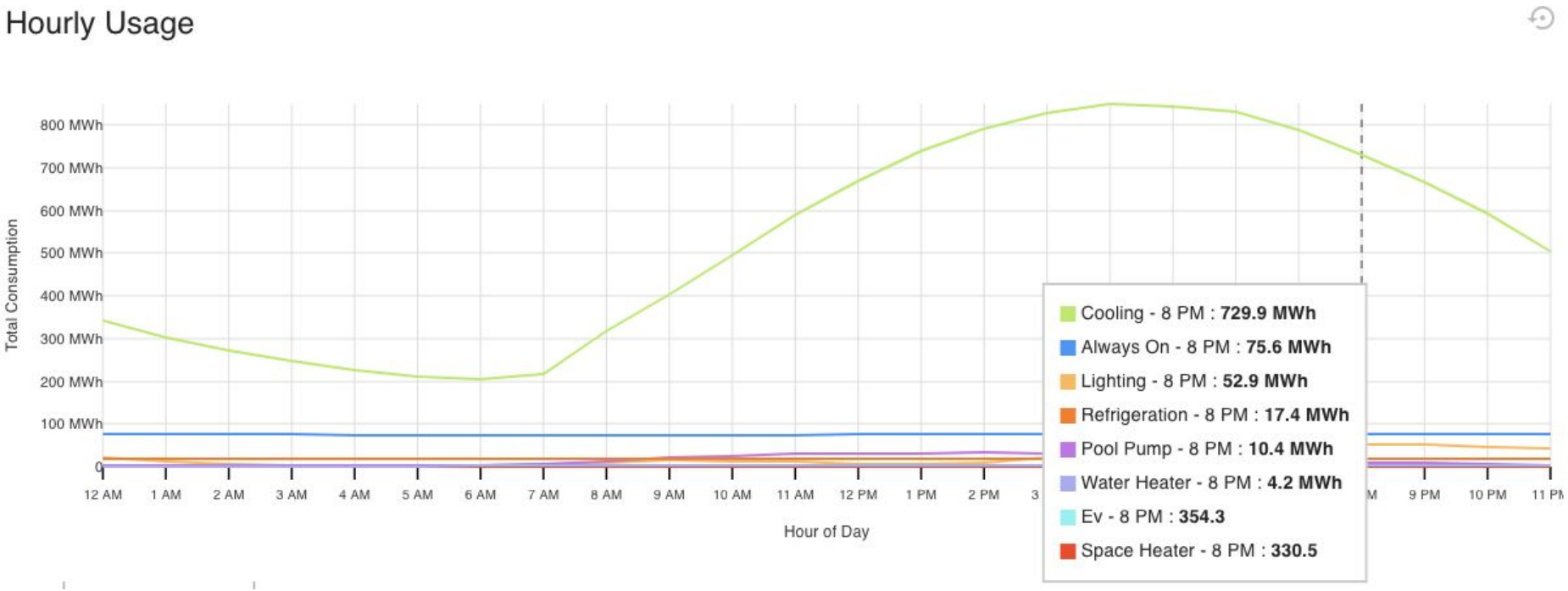
LOAD SHAPES BY END USE



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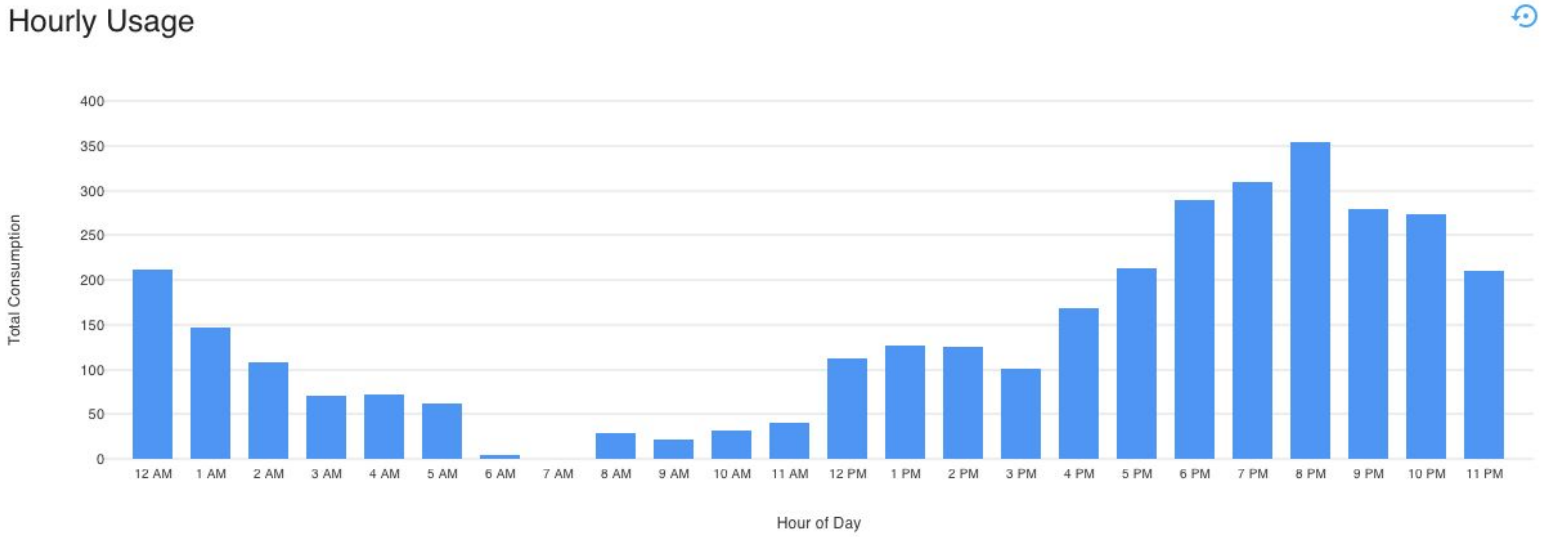
INTERESTING TRENDS WE CAN SEE: EVs

At home electric vehicle charging has a pattern indicating that the most use starts at the end of the works day and continues through the early evening:



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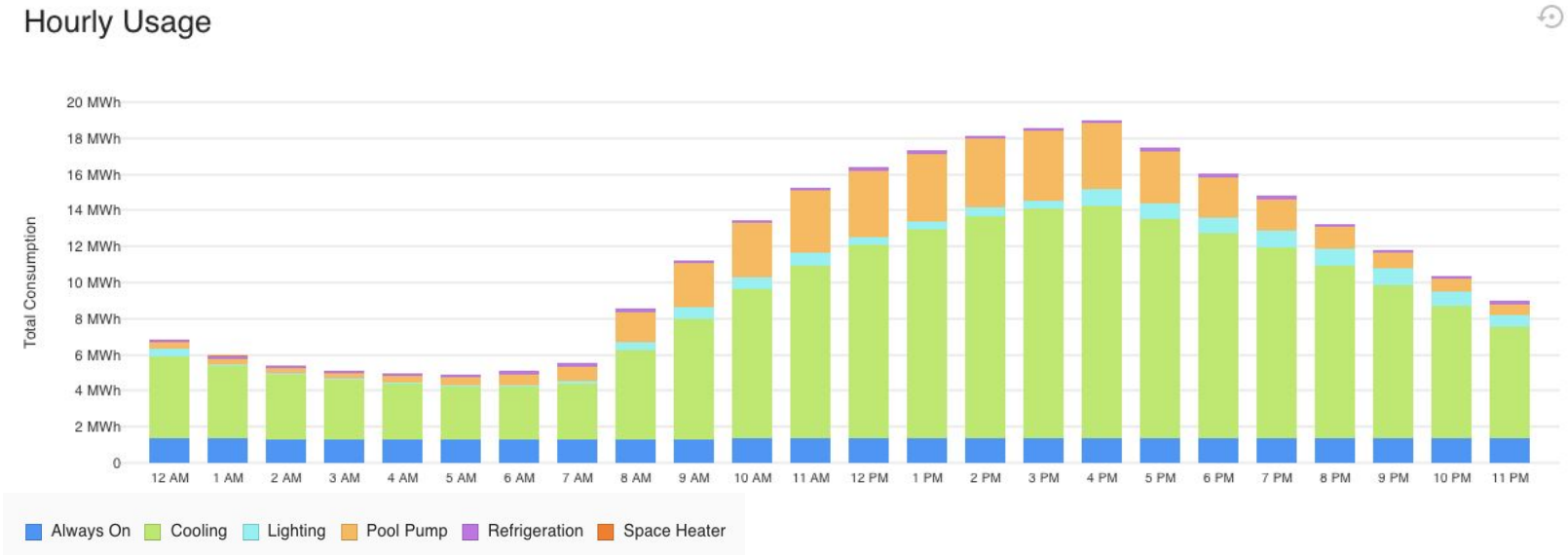
INTERESTING TRENDS WE CAN SEE: POOL PUMPS

Pool pump owners have distinct peak demand impact and can be excellent target for demand response. The end use profile can be used to estimate demand response potential.



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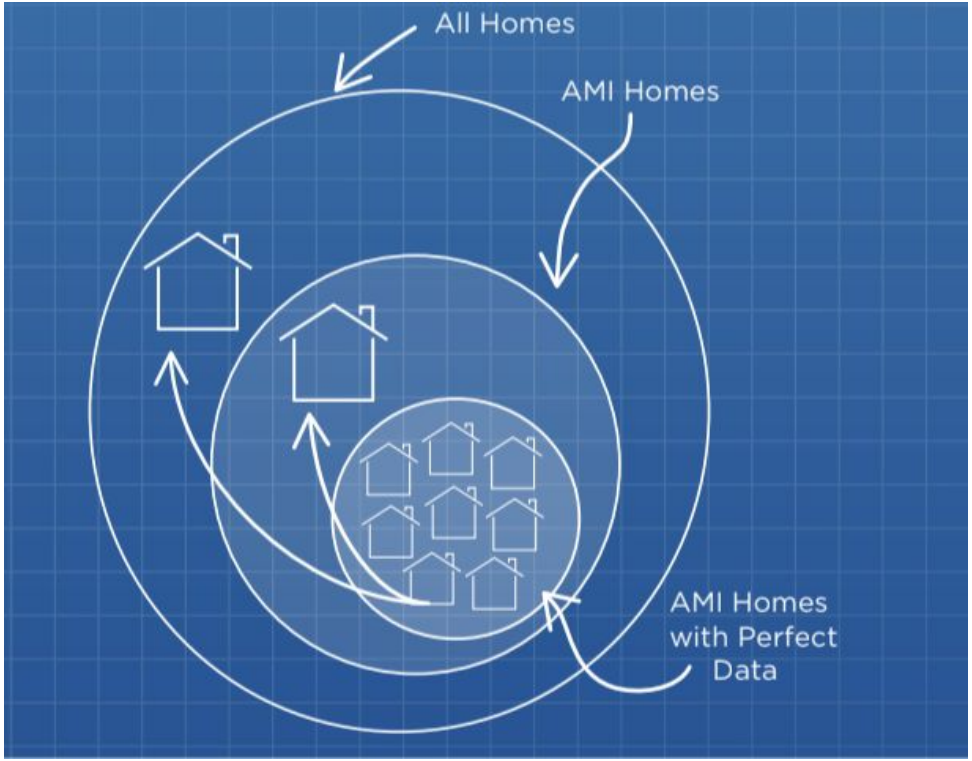
CLEANER DATA WITH DATA SCIENCE

Using similar home clustering and disaggregation Bidgely can support improved data sanity by "cleansing" data. Similar home clusters are identified and gaps in any of the similar homes can be rectified using home historical data, monthly billing total, and patterns from the similar home clusters.



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Load Research Leveraging AMI

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AMI POWERED LOAD RESEARCH

- The rollout of advanced metering infrastructure systems (AMI) has opened the door to advanced load research by providing reliable data for advanced utility analytics.
- Leveraging the results of disaggregation can help to:
  - Examine **End Use** load shapes and aggregated load curves.
  - **Explore segments of customers** ideal for demand response or energy efficiency programs (e.g. who have large loads of HVAC, EV, or other shiftable loads during peak).
  - **Design rates** based on end usage patterns, demand times for specific appliances & uses, and cost to serve.
  - Inform decisions about **infrastructure investments and non-wires alternatives** through geographic demand studies.

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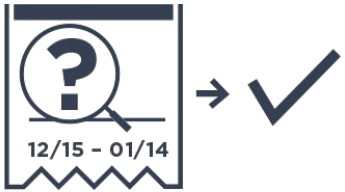
BIDGELY'S LOAD RESEARCH APPROACH

Leverage your AMI Investment and utilize the full population or a super set for load research



Automate reporting and visualization to free up load researchers to perform advanced analysis

Pre-Built Visualizations for:

- End Use
- Temperature Effects
- Rate Evaluation
- Grid Constraints

Allow load researchers to create **custom analyses**

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Discussion: Sample Set | Super Set | Full Set

Go to Menti.com and use code 2901 5637 to Participate in this discussion!

What do you currently use for your load research: *sample set*, *super set*, *full set*?

Why have you selected that data set?

What are your biggest challenges today with the method you are using?

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