



BIDGELY DER GRID PLANNING

Bottom-Up Grid Planning Through Behind-the-Meter DER Intelligence

Power-up your grid planning with behind-the-meter 8760 visibility.

Confidently plan grid optimization that accounts for Distributed Energy Resource (DER) adoption and demand-side shocks, while also uncovering opportunities for untapped load reduction and shifting.

Conduct NWA analysis by overlaying load-constrained assets with load-shifting opportunities, optimizing NWA outcomes and unlocking substantial savings on infrastructure and operating costs.

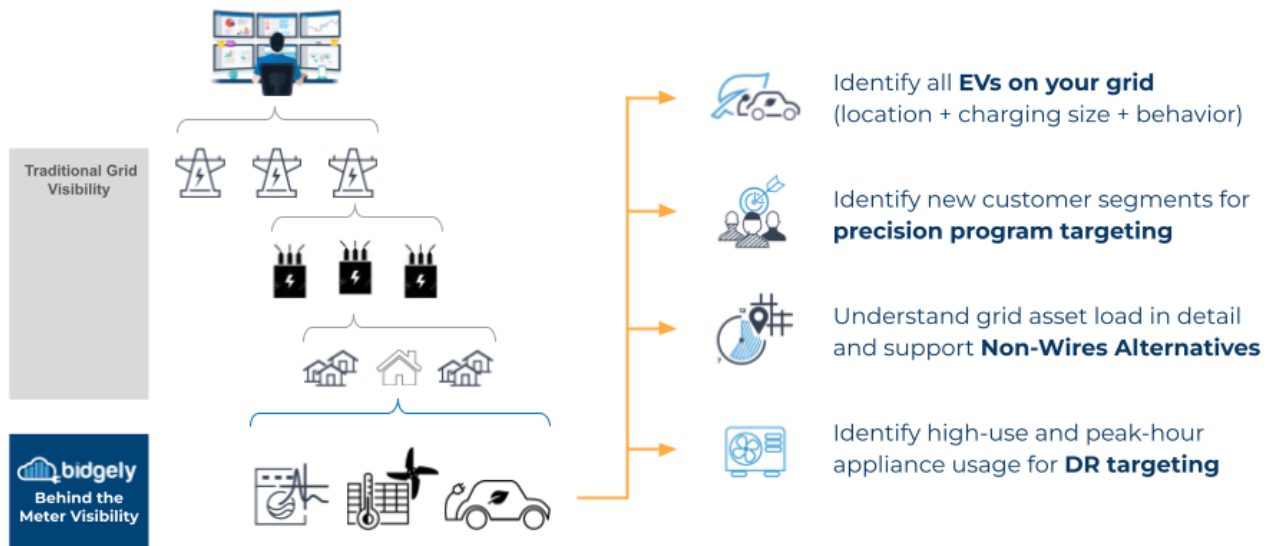
Better DER Visibility & Grid Planning Through the Power of AI

By applying patented AI algorithms to meter data, Bidgely's true disaggregation lets your grid operators look "behind the meter" to understand the what, where, when and how of DERs being utilized across your grid.

We can detect and contextualize:

- Which appliances a customer has, including heating, cooling, lighting, refrigeration, water heating, pool pump, EV, solar, and more
- Energy usage by appliance (in kWh, therms, CCF, cost)
- Time of use by appliance (daily, weekly and seasonal load profiles, peak/off-peak usage, and more)
- Appliance size and fuel type (e.g. electricity vs. gas)
- Type of appliance with the same fuel type (such as central AC vs. room AC)
- Relative efficiency and degradation

This behind-the-meter intelligence enables better demand analysis and grid planning for infrastructure investments or Non-Wires Alternatives.



Tackle Emerging Grid Challenges Intelligently

EMERGING GRID CHALLENGES

Energy Decentralization: The rise of DERs and clean energy initiatives transforming the energy landscape and making control and reliability more challenging to maintain.

Electrification of Everything: Increasing demand from EVs and other electrified technologies must be balanced against supply that is less predictable.

Infrastructure Pressures: Grid “hot spots” can now pop up more rapidly and be harder to diagnose and remedy.

Lack of Grid Visibility: Customer-owned assets have traditionally been invisible to grid operators and planners. Exposing them for planning is essential to maximizing the value of Non-Wires Alternative

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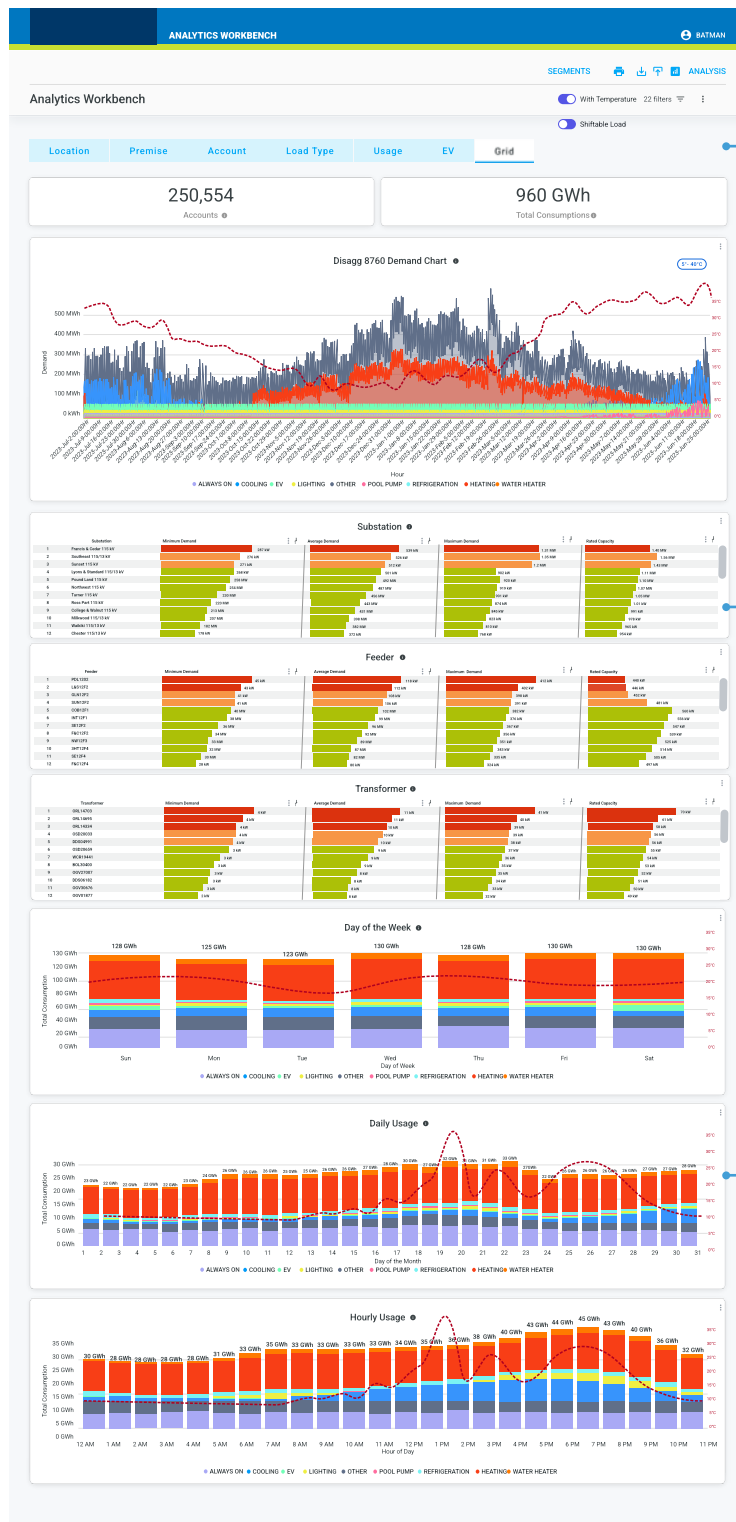
Understand where, when, and how DERs are being used across your grid.

Bidgely DER Grid Planning leverages our UtilityAI™ disaggregation to deliver detailed behind-the-meter intelligence about customers’ energy consumption patterns hour-by-hour, by 12 distinct appliance types (including EV and solar), across different geographic areas and rate plans.

This meter-up approach provides a household-level view of energy flow, enabling grid operators to manage the grid on a granular scale, home-by-home, and community-by-community.

With Bidgely’s secure platform and flexible integration framework, utilities can leverage their data in a fully self-serve, agile, and holistic way. This enables grid operators, planners, and partners to seamlessly access, visualize, and collaborate on energy data, accelerating and improving the grid planning process.

Key Capabilities



8760 View of Demand

Bottom-up temporal view of Demand with disaggregated hourly Appliance Usage including DERs.

Capability to segment based on attributes including usage, customer profile, rate plan, geographic and demographic.

Identification of stressed assets with high utilization.

Asset Capacity Analysis

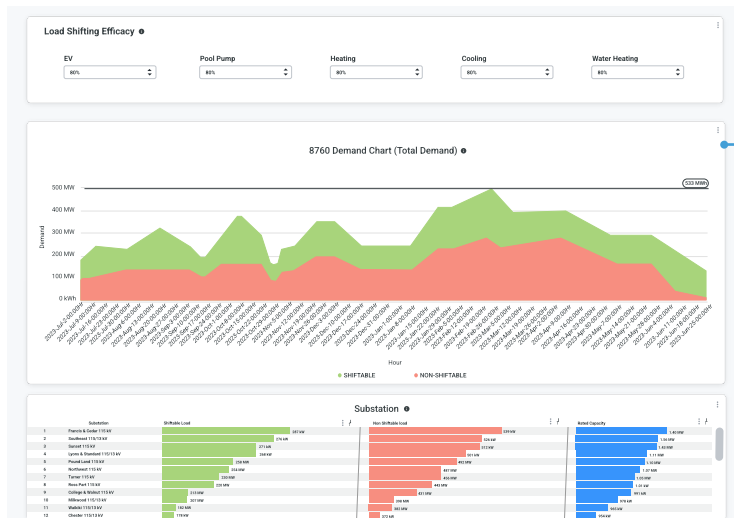
Evaluate the past and project future capacity on feeders, substations and transformers to identify when they will run out of capacity well in advance.

Intuitive UX that makes it easy to dive into any part of your network and use behind-the-meter data to uncover the root causes of grid capacity constraints by precisely identifying the end-use appliances responsible.

Weather & Temperature Correlation

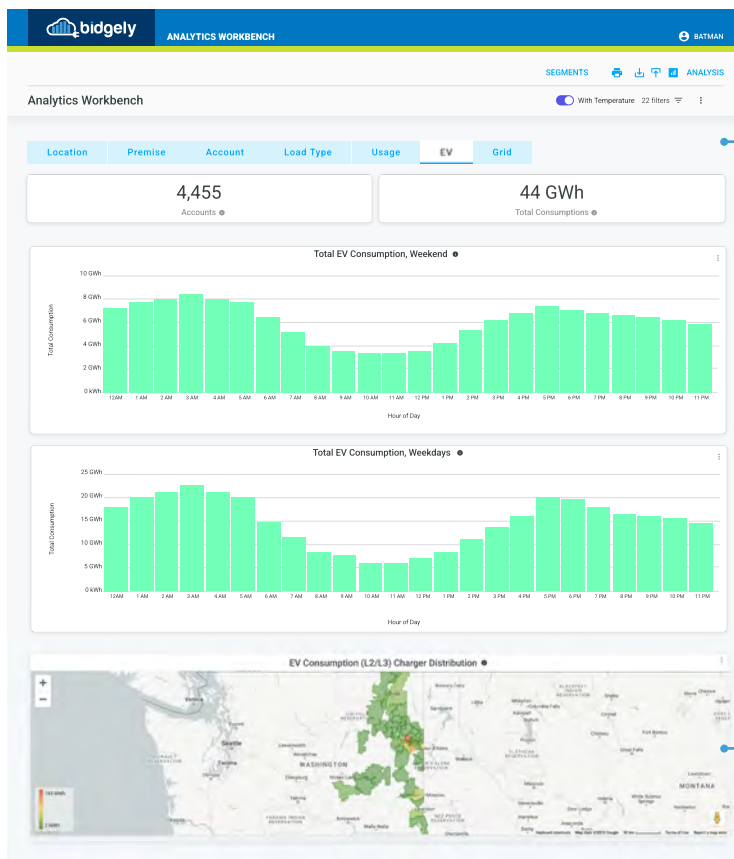
Understand how temperature fluctuations impact individual appliance usage.

Peak demands can be triaged and planned for in-advance with known temperature dependence.



Non-Wires Alternative Capacity

Evaluate NWA potential on each of your assets by overlaying reduction potential from EE, solar, batteries, Demand Response (including EV), community solar or battery.



Scenario Analysis

Enter granular DER and whole circuit load forecasting scenarios on the grid to assess best and worst case scenarios.

EV Analytics

Understand the presence, growth, geographic concentration, and load impacts of EVs.

Map EVs and other grid assets to identify constraints and hot-spots in and predict predict failure or operations changes needed.