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What's Needed To Scale Grid-Interactive Efficient Buildings?

Lessons from rolling out an IDSM platform

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Scaling Grid-Interactive Efficient Buildings will require the right policy frameworks to enable market mechanisms that fully leverage existing and future technological capabilities.

What are existing barriers?

Siloed Policies



Siloed Programs



Cost-effectiveness tests
that don't holistically
value resources

Lack of aligned incentives
between utilities,
technology providers and
customers to minimize
costs and emissions
across the country

High friction
enrollment/authorization
processes that create
significant drop-off for
residential customers and
reduce grid visibility of
flexible load resources

ecobee is harnessing the power of homes for a clean, resilient, and flexible grid of the future through personalized automation.

eco+ is a suite five features that lets the customer personalize their comfort and savings preferences for maximum efficiency with minimal effort.



Adjusting for Humidity



Schedule Assistant



Smart Home & Away



Time of Use



Community Energy Savings

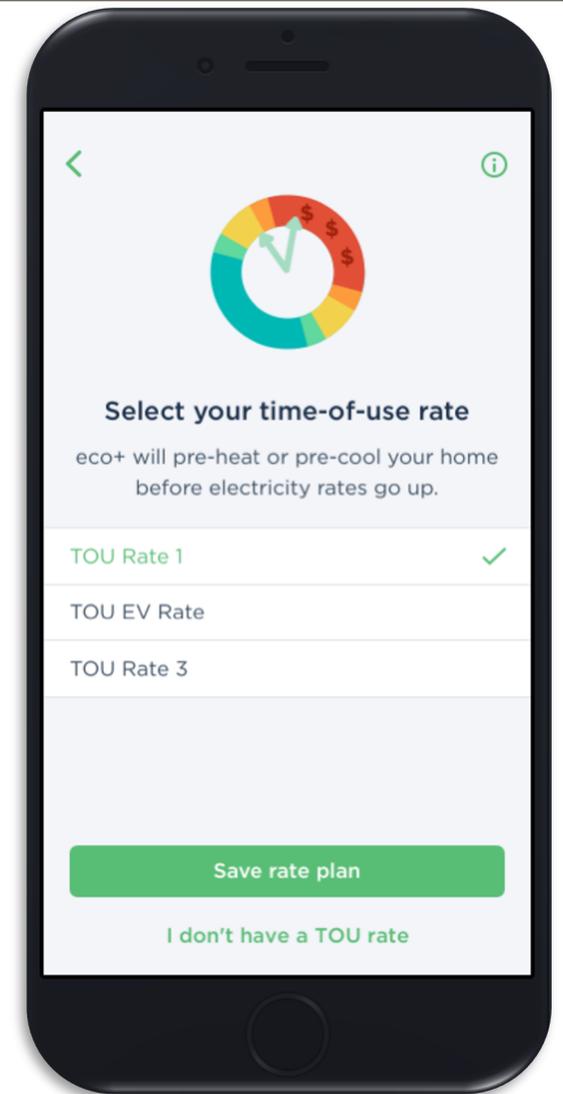
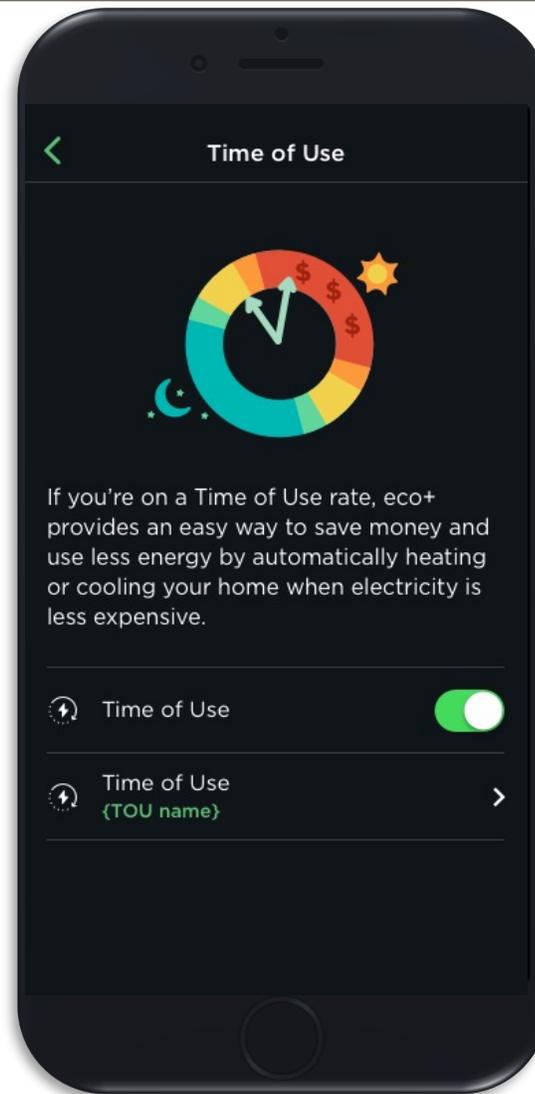
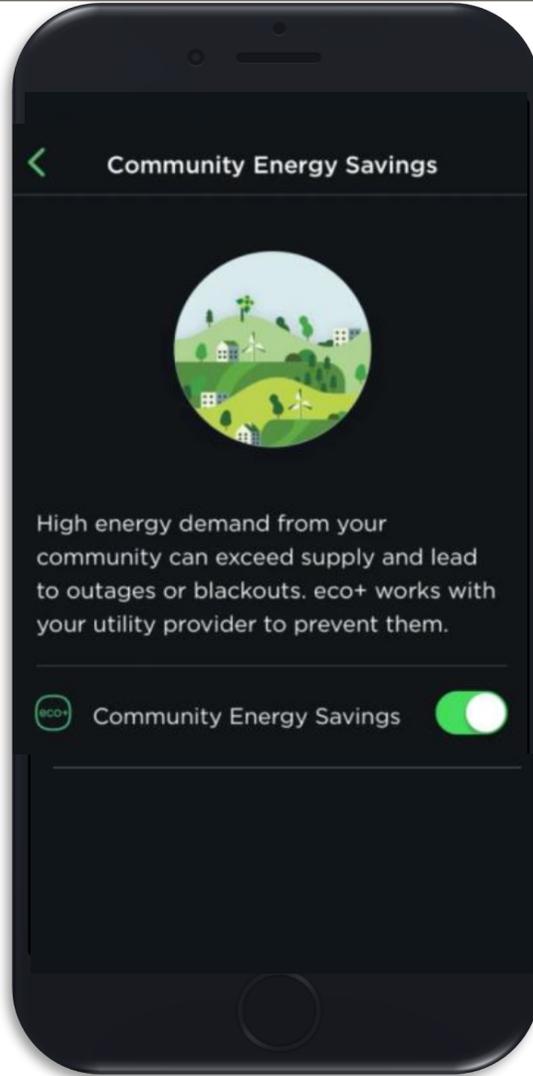
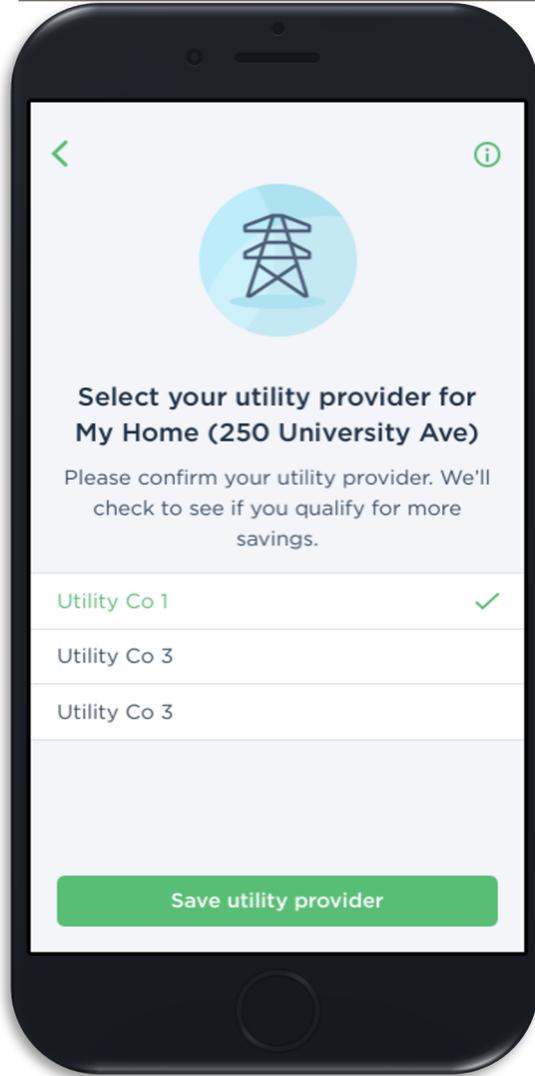
Energy Efficiency

Time of Use

Demand Response

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Mobile Enrollment Wizard



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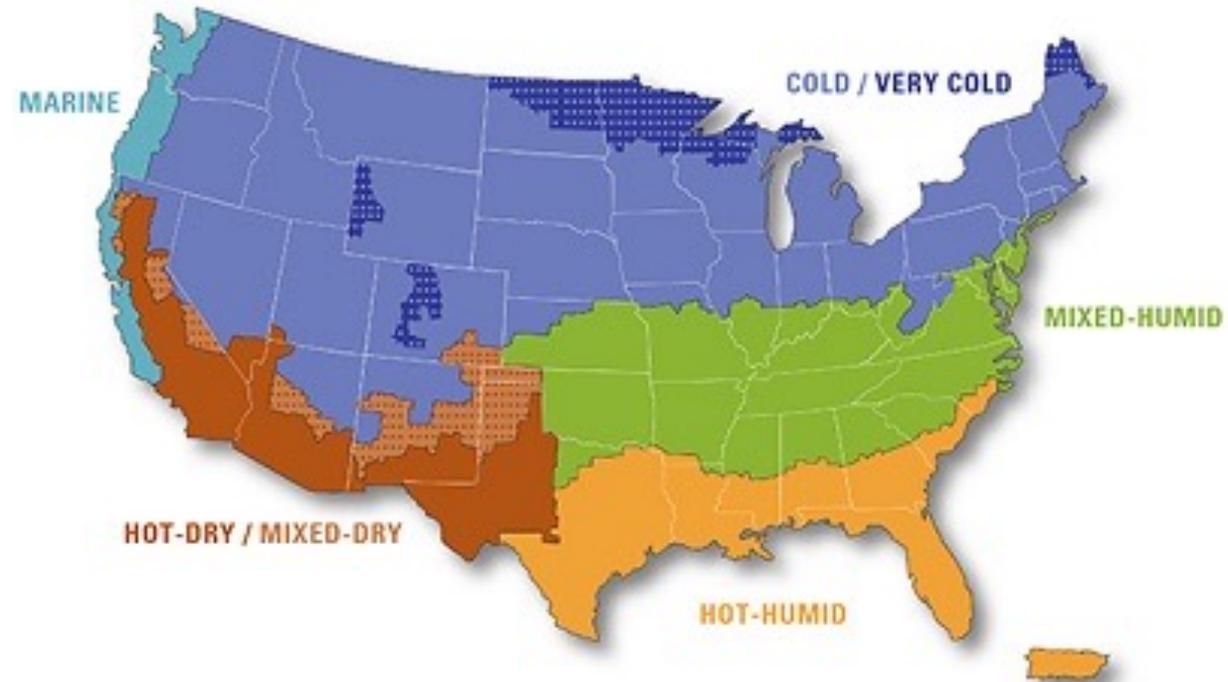
ecobee contracted 3rd party M&V experts to measure the impacts of eco+ during summers 2019 & 2020 using a Randomized Encouragement Design involving 250,000 devices.

Study designed to measure impacts across five US climate zones and Canada.

Impacts are measured against a control group of ecobee customers who did not receive the eco+ offer.

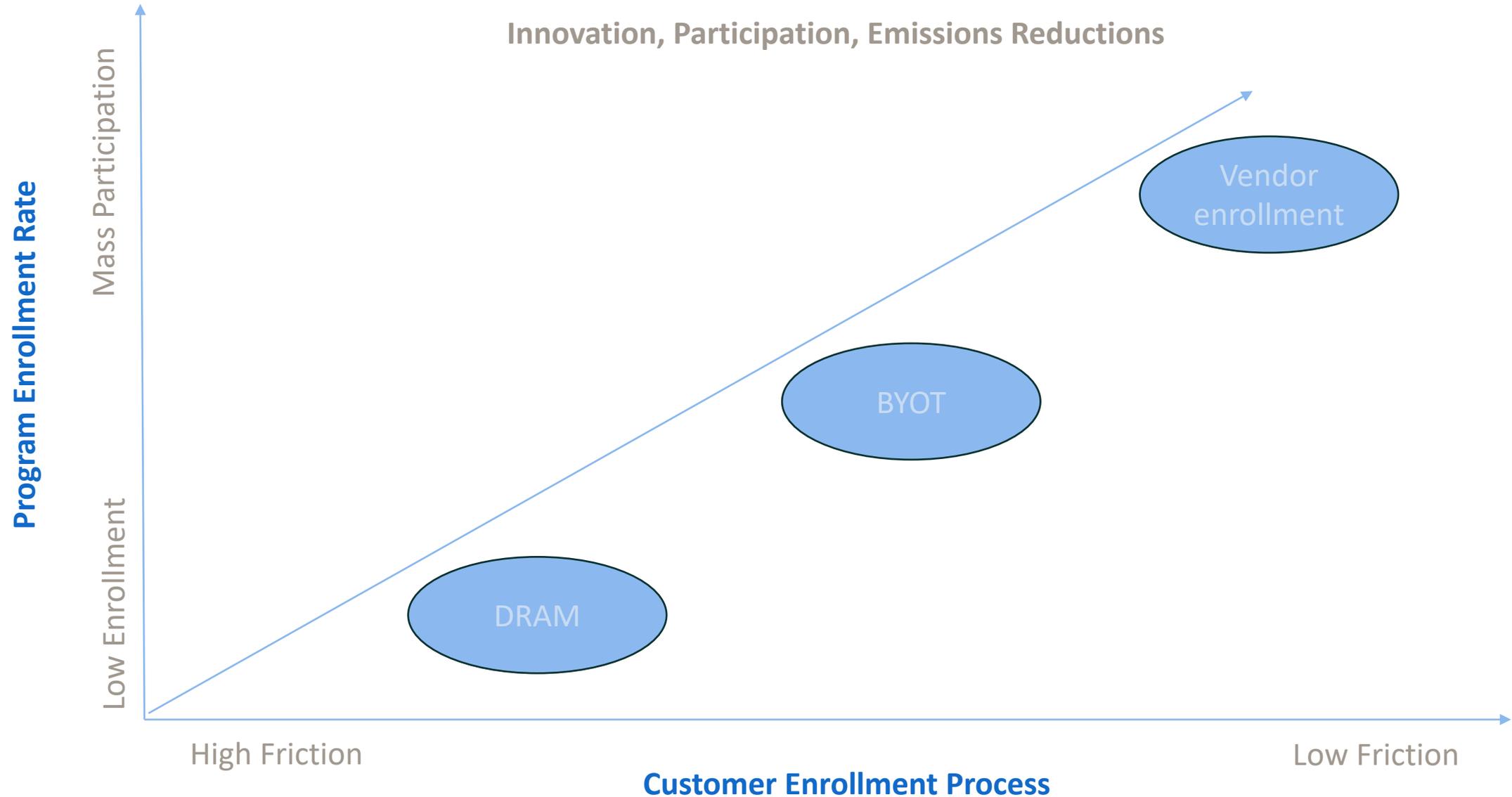
Results available at: ecobee.com/ecoplusEMV

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BUILDING AMERICA CLIMATE ZONES USED TO MAP PARTICIPANTS IN THE M&V STUDY

Key lesson from M&V study: Scale is achievable through simple vendor enrollment



Key Takeaways

1. Creating visibility of flexible load resources is critical
2. Consider policies that create aligned incentives between all parties (utilities, technology providers & customers) to reduce costs and emissions
3. Consider mechanisms that enable scale through simple vendor enrollments (e.g., emergency agreements, load management agreements)
4. Continue to include technology providers in policy and planning discussions