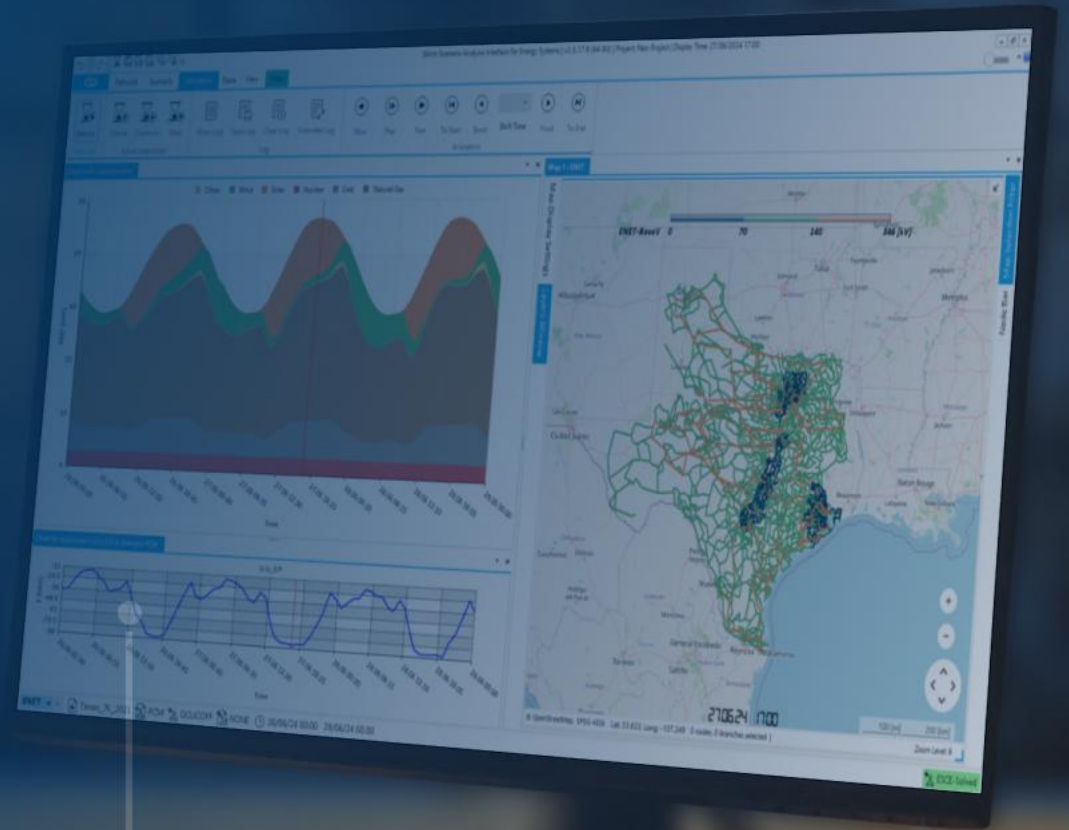
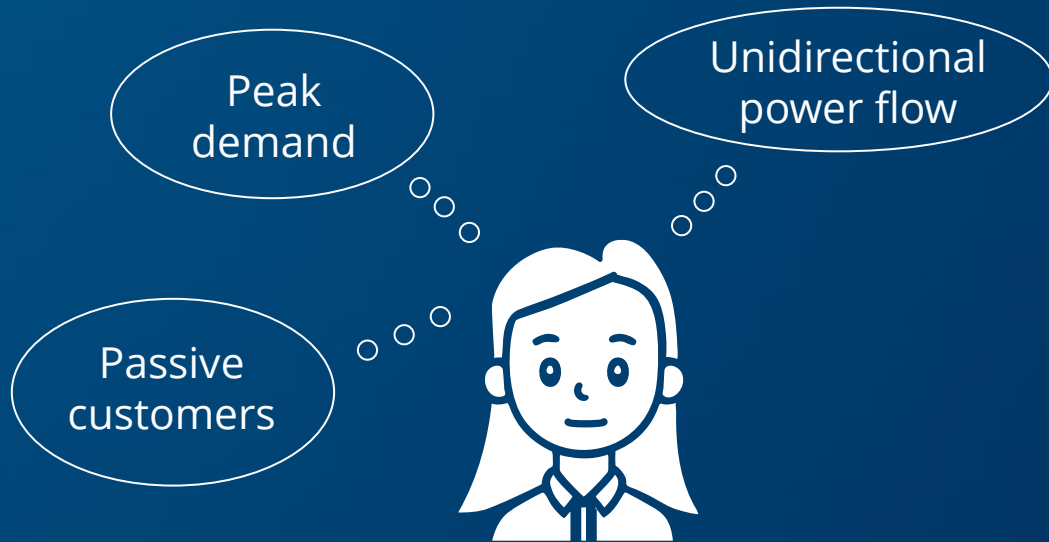


Planning for DERs and the Benefits of an Integrated Approach

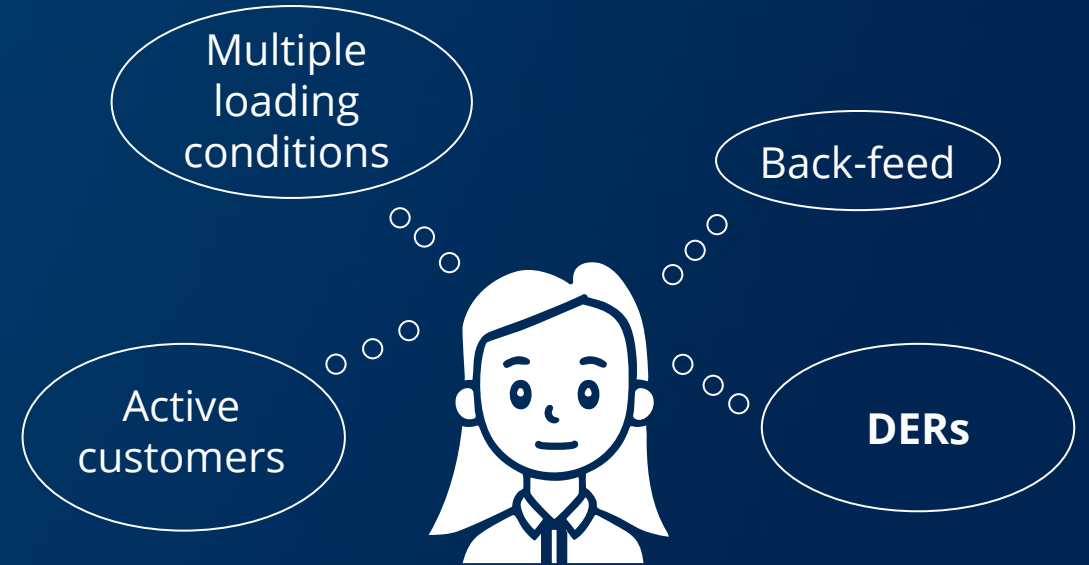
October 2025



Distribution planning is getting harder

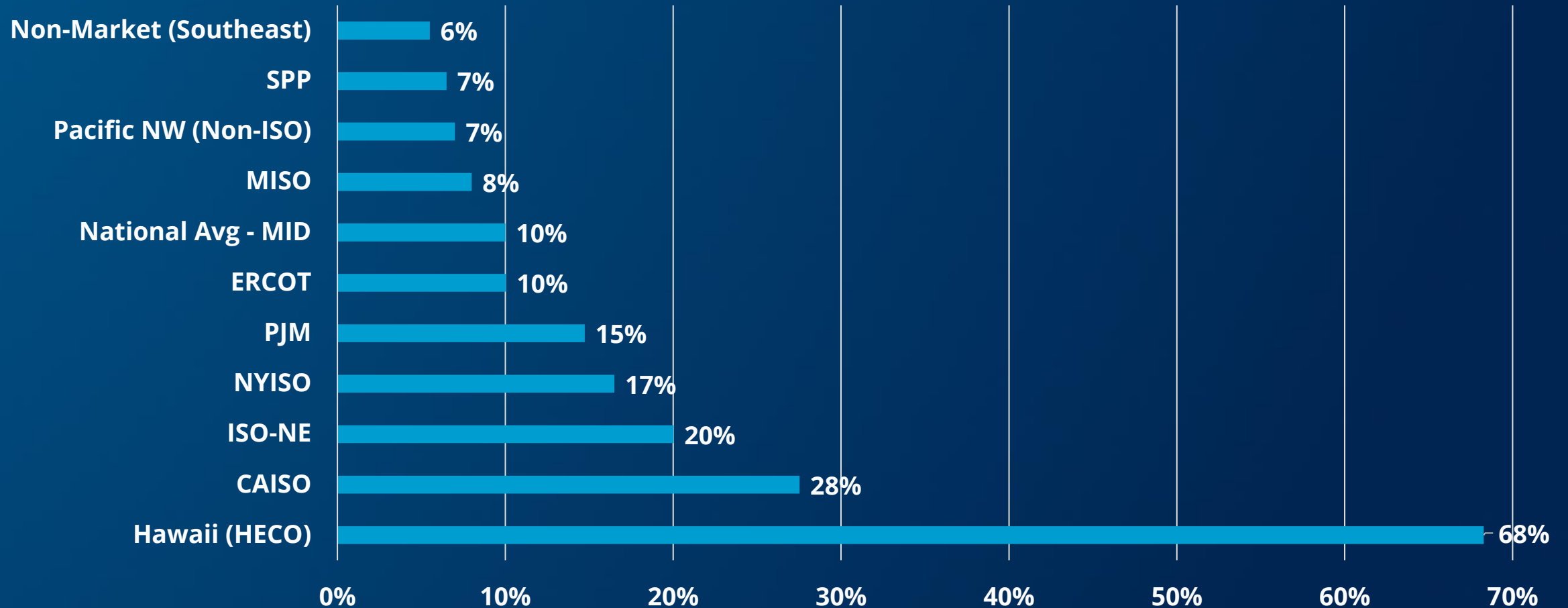


Distribution Planner
in 2000



Distribution Planner
in 2025

DER Penetration* (% of peak demand)



**based on encoord's market research*

DERs have system-wide impacts

Will DERs impact load shape?

Do DERs contribute to resource adequacy?



Generation / Resource Planner

How will DERs respond to electricity prices?

Will DERs impact upstream voltage profiles

Will DERs ride-through?

How do DERs impact load distributions across varying operational conditions



Transmission Planner

As the grid transforms, **integrated planning** is key to delivering reliable, affordable power under increasingly complex conditions

Planners are challenged by traditional processes and tools

Built for a different era

Plan for generation, transmission, and distribution in silos

Use incompatible data/assumptions, and tools are not interoperable

Integrated planning processes and tools can solve these challenges

Plan for a modern, complex grid

Coordinate across planning domains

Assess the system through a unified platform

An integrated DER planning workflow with SAInt

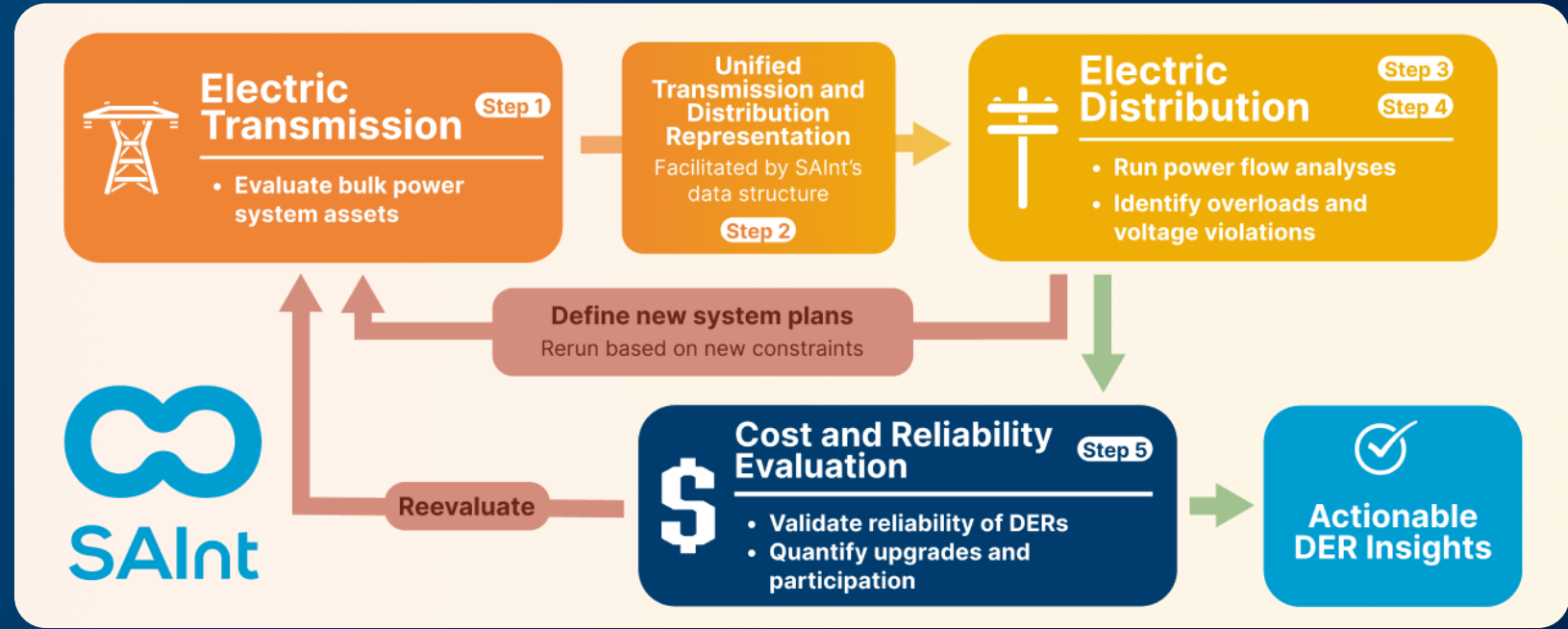
Step 1: Model the transmission system

Step 2: Visualize transmission and distribution systems in a single unified model

Step 3: Assess combined transmission/distribution reliability

Step 4: Jointly optimize system and DER operations

Step 5: Compare costs and reliability across DER strategies



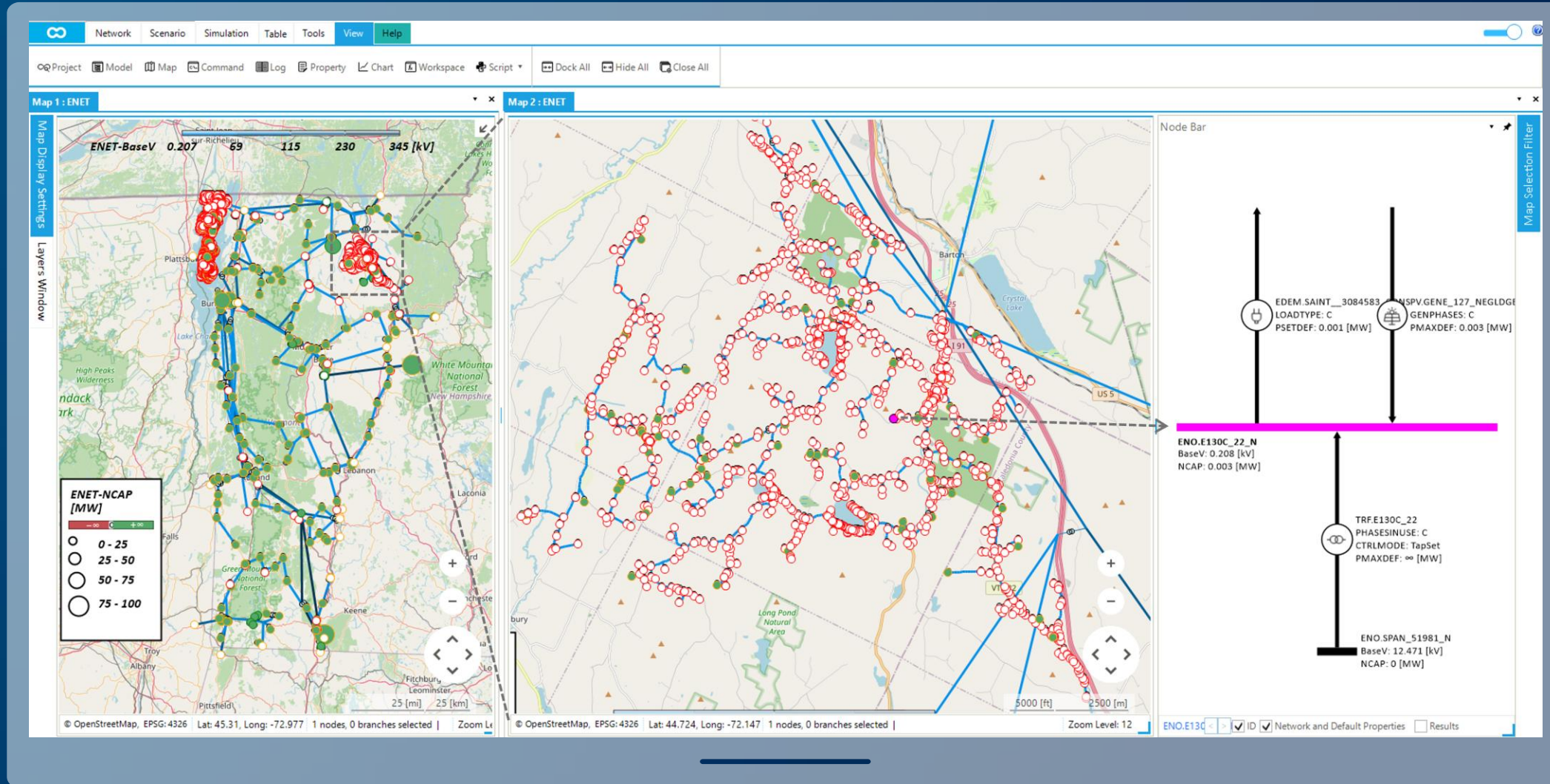
The Value

Discover new, realistic DER dispatches

Understand DER behavior and impact across conditions

Prioritize high value investments

Proof-of-concept: Unified Transmission-Distribution Modeling of VPPs for Grid Reliability Studies and Grid-Edge Flexibility



encoörd

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encoörd.com



info@encoörd.com

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