

DERIVE™

DISTRIBUTED RESOURCE MODELING

Enabling Smarter Energy Decisions for Facilities and Utilities

DERIVE™ is an integrated DER, CHP, renewables, and storage assessment tool developed by ERS that can determine the technical and economic merits of a service territory's CHP and DER combinations at a facility level. This robust tool guides customers during the initial planning stages. DERIVE uses weather-normalized monthly billing data and stock building load profiles to create an 8,760 analysis with financial impacts to provide customers with a range of potential CHP sizes that are appropriate for their building. This data helps provide clear and actionable information to end users and drives the planning process. DERIVE has the ability to include a variety of other DERs to take hybrid systems into account and how various DERs and utility rate structures affect value streams for these projects.

SITE-LEVEL ANALYSIS

- Clear, actionable results
- Financial payback modeling
- O&M considerations
- Incentives and rebates

CAMPUS ENERGY MASTER PLANNING

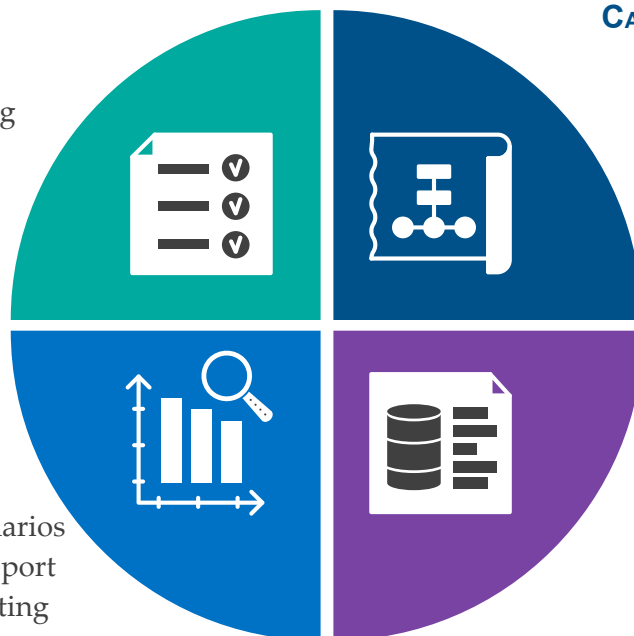
- Concierge support services
- Energy cost management
- Multiple facility modeling
- GHG impacts

UTILITY NETWORK-LEVEL FORECASTING

- Iterate across multiple scenarios
- Non-wires alternatives support
- High-value customer targeting
- Evaluate all value streams

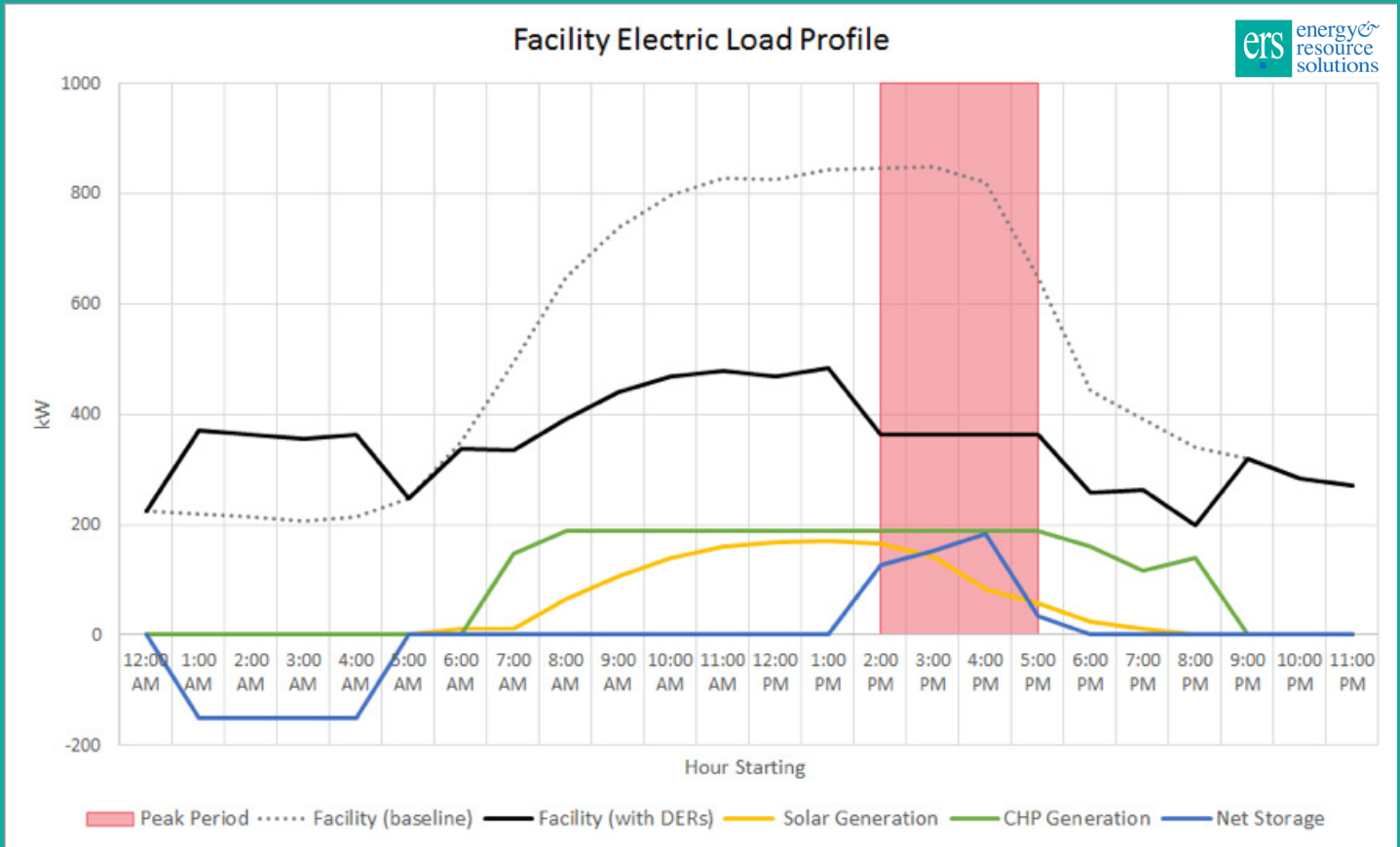
REGIONAL RESOURCE MODELING

- Multiple DER sources
- Peak load management
- Energy storage modeling
- Load growth, strategic electrification



POWERFUL MODELING, GRANULAR RESULTS

SOLAR – STORAGE – CHP – EVs – FUEL CELL – DR



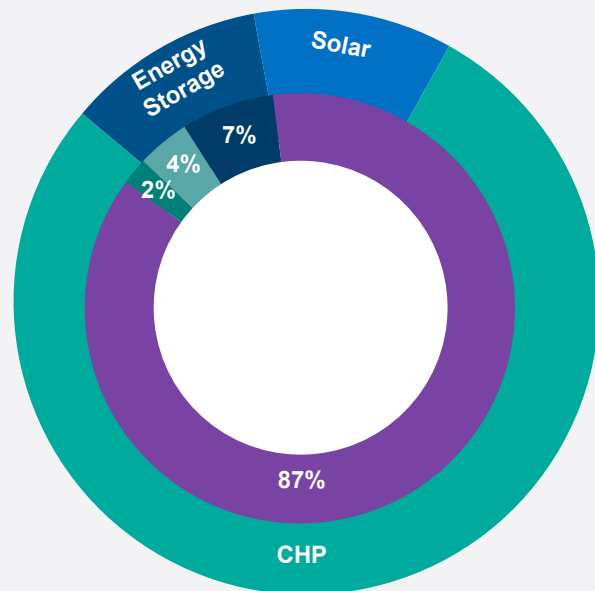
The figure above is a sample graphical load profile generated from DERIVE that contains the full suite – the pre-/post-facility, three DERS (PV, CHP, and storage), and indications of the peak period we’re shaving.

DERIVE allows you to leverage the knowledge of our team of engineers, analysts, and data scientists.

Capturing Multiple Values:

- Demand response
- Non-wires alternatives
- Rate switching
- Federal ITC
- Local + state tax abatements
- Utility incentives
- Facility demand management
- Net metering
- Ancillary services

Sample Cost Savings Per Value Stream



Interested in learning more or would you like to schedule a demo?

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