

## TROES - BESS SIZING SERVICES

To our valued Customers and Channel Partners:

As some projects require Battery Energy Storage System sizing, to ensure that we design an optimum System, according to the current and future project requirements and avoid down- or over-sizing and relevant overpayment, TROES provides auxiliary design services.

We collect and analyze project related information including, but not limited to, load profiles, power generators and configurations, and utility electricity prices to optimally size the BESS, evaluate value additions when combined with solar, CHP, biomass, etc. and provide high-level IRR and payback period results.

### Sizing simulation services include, but not limited to:

- BESS Applications feasibility
  - Peak Shaving
    - Identify peak power demand and frequencies and simulate peak load reduction after BESS installation
  - Load Shifting
    - Identify ideal BESS operating strategy based on local utility floating power rates to achieve load shifting or energy arbitrage
  - Microgrid Simulation
    - Estimate energy production and efficiency improvements by simulating additional BESS and/or renewable generation
  - Other BESS applications simulation
- Energy production modeling with renewable energy generator and BESS
  - Assumptions, inputs, analysis
- Project return analysis support
  - High level project payback analysis for different kW/kWh configuration of BESSs

### Augmentation Strategy, Planning and Execution

- Avoid BESS over-sizing and overpaying for projects with extended project life (12, 15, 20 years) by implementing schedules for additional capacity to the original battery system.
- Identify the overall system footprint required of the system for the entirety of its project lifespan.

### Service Fees:

Standard Service Charge	Fees	Time
1 Simulation	\$480	1 Day Labor

Extra charges will apply for additional hours: \$60 per hour

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For additional information, please contact your TROES Salesperson.

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