

CLEAResult[®]

Distributed Energy Resources (DERs)
+ Demand Response Solutions



The Challenge

Across our industry, fossil fuels are gradually being phased out in favor of renewables and other sustainable sources. This transition has created strain on the grid during peak hours. On top of that, many localities restrict running new wires, which poses a unique challenge for utilities trying to work with aging energy infrastructure unequipped to handle challenges such as severe weather or increasing consumer demand for things like EV charging. Rising regulatory pressures, such as those related to decarbonization goals, can also be a contributing factor.

Added grid strain and aged infrastructure can be a recipe for reliability problems. Understandably, no utility wants chronic issues such as these tied to their reputation. To avoid these potential problems—while simultaneously investing in grid resilience—a wise choice can be to decentralize energy sourcing behind the meter generation and storage solutions. That’s where we come in.

The Solution

CLEAResult has a long history of specialization in both Demand Response (DR) and Distributed Energy Resources (DERs), which work hand-in-hand to reduce grid strain and build energy resilience. Our Demand Response approach dynamically reduces load in response to capacity constraints and/or high energy price. Our DERs solutions focus on generation, storage, and load-modifying resources connected to the electric grid either on a customers’ premises or on the utility’s existing distribution system.

In the past, standard demand response programs would focus on three main areas: energy efficiency, smart thermostats, and load curtailment. But modern problems require modern solutions, and DERs is the most comprehensive, cost-effective solution when direct grid improvements are off the table. Unlike traditional demand response, DERs integrates into our smarter world, using smart appliances, EV chargers, and BTM/FTM storage to balance grid load.

Our DR and DERs solutions are fully scalable depending on the utilities’ need to address demand, load and capacity challenges of any size. Depending of the size of the megawatt challenge our software and OEM hardware partnerships make for a streamlined process from start to finish. We couple that with our advanced data analytics and demand forecasting capabilities to create environment that that makes managing distributed energy amazingly efficient, improves power reliability and enable real-time orchestration and management to meet changing conditions.

- ✓ **Data** - Acquisition, analysis, API
- ✓ **Software** - DERMs, advanced insights and foresights via analytics, monitoring and management of presentation to customers
- ✓ **Hardware** - Thermostats, water heaters, storage, microgrids, edge devices, data collection, and more

Why DERs?

- ✓ Meet increasing demand with increased preparedness
- ✓ Grow renewable portfolio in a cost-effective way
- ✓ Head-off reliability challenges by increasing grid resilience under load
- ✓ Boost customer satisfaction and engagement across demographics

