

Powering the Future of Turbine Performance

Gas turbines lose up to 20% of rated output during high-ambient conditions, limiting capacity when demand and grid stress are highest.

Rebound's AEC converts turbine inlet cooling into a flexible capacity asset, restoring lost output and delivering the lowest-cost path to additional generation.

Turbine Performance & Capacity Benefits

- **Boosts turbine output 10–20%** during high-ambient conditions
- Delivers additional peak generation capacity at the lowest cost per kW
- Enables firm power delivery without oversizing generation assets
- 75% smaller footprint than chilled water storage systems
- Converts turbine inlet cooling into a dispatchable, grid-aligned capacity resource



The Benefits



Enhancing Energy Efficiency

AEC boosts turbine performance during high-ambient conditions, increasing power output while reducing heat-rate penalties and improving overall generation efficiency.



Restored Turbine Output During Peak Heat

Delivers colder, denser inlet air during peak ambient conditions, restoring lost turbine output, reducing heat-rate penalties, and maximizing generation efficiency when power is most valuable.



Plug-and-Play Integration

Designed to integrate seamlessly with existing turbine inlet systems, evaporative cooling, or hybrid configurations—without major plant modifications.



Lower Cost Peak Capacity

AEC provides the lowest-cost path to additional peak generation capacity, avoiding the need for new turbines, oversized chillers, or grid-scale batteries.