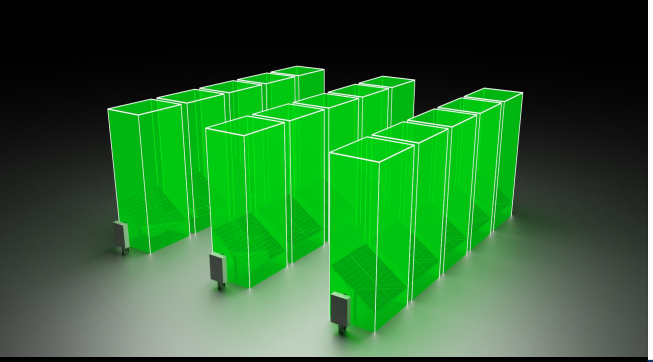
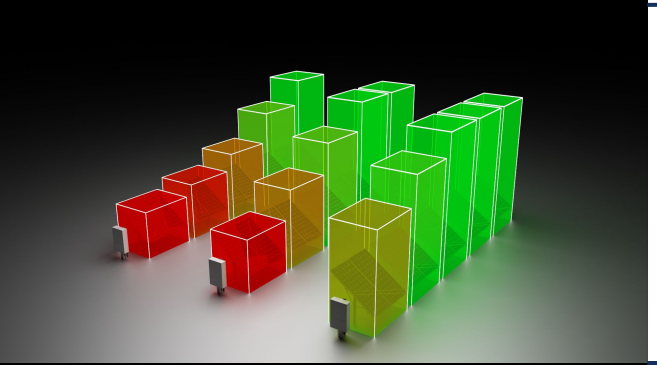
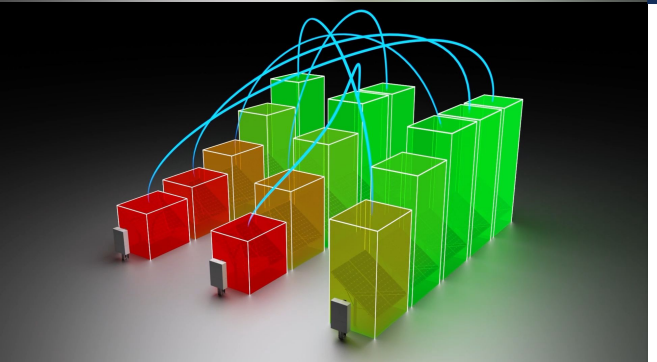


First, our technology *proactively curtails* generation to create the headroom necessary for flexible operation



Then, we monitor generation at the inverter level to identify losses due to unpredictable shading events



Finally, our patented optimization process adjusts generation across the plant to mitigate losses and meet the power level requested by the grid

Novel Control Software for Flexible Operation of Utility-Scale Solar

Latimer Controls software enables utility-scale PV to provide power **reliably and on demand**, replacing grid reliance on fossil fuels for essential balancing services.

<u>Simulated Hawaii Case Study</u>

>99% base load generation commitment satisfied

>99% ancillary fast frequency response satisfied

18x less supportive generation required

<u>Features</u>

Predictable: Operate solar on automatic generation control

Scalable: Seamless integration with existing hardware

Dispatchable: Respond to ancillary grid signals

<u>Benefits</u>

Maximize renewable integration on power system

Low capital cost - no batteries or new hardware required

Provide essential grid services 100% carbon free

Developed in conjunction with the National Renewable Energy Laboratory and the University of Colorado Boulder.

LATIMER CONTROLS