Lucid Load Case Study

tune® an Energy Tech Company.

Chilled Water Plant Gains Efficiency

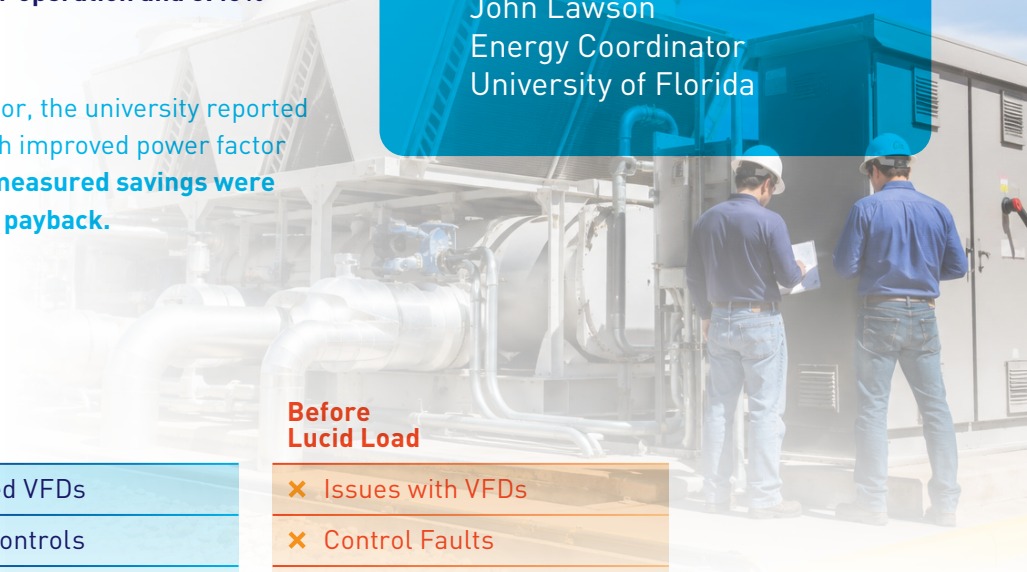
UF | UNIVERSITY of FLORIDA

The University of Florida installed Lucid Load power conditioning technology on the 480V side of one of its chilled water plants. The facility had been experiencing repeated **lightning-related problems affecting its controls and variable frequency drives (VFDs).**

Following the installation, the university reported no further issues with its VFDs or control systems caused by lightning strikes. Testing also showed a measurable reduction in electrical consumption, with approximately **4.82% savings during winter operation and 3.45% savings during summer operation.**

While not a power factor correction capacitor, the university reported that it was the only device it tested that both improved power factor and demonstrate a reduction in kWh. **The measured savings were sufficient to justify an estimated five-year payback.**

> "Since we have installed this device, **we haven't had any issues with the VFDs or control systems** due to lightning strikes."
>
> John Lawson
> Energy Coordinator
> University of Florida



The Lucid Load Impact

With Lucid Load	Before Lucid Load
✓ Protected VFDs	✗ Issues with VFDs
✓ Stable Controls	✗ Control Faults
✓ No Damage Reported	✗ Lightning Damage
✓ Reduced kW	✗ Higher kW
✓ Improved Power Factor	✗ Lower Power Factor

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