

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

- ✓ Protected VFDs
- ✓ Stable Controls
- ✓ No Damage Reported
- ✓ Reduced kW
- ✓ Improved Power Factor

Before Lucid Load

- ✗ Issues with VFDs
- ✗ Control Faults
- ✗ Lightning Damage
- ✗ Higher kW
- ✗ Lower Power Factor