

# DEPENDABILITY

## INSTRUMENTATION & CONTROLS

# Toshiba Control System Upgrade at Texas Medical Center

**Toshiba International Corporation undertakes a major control system upgrade at TECO without any downtime while helping to improve reliability and performance.**

Toshiba International Corporation (TIC), through its Instrumentation and Controls Group, provided Thermal Energy Corporation (TECO) in Houston, TX with process automation solutions, including technology and services, that enhanced existing plant operations' reliability and performance without any downtime.

TECO provides CHP (Combined Heat and Power)-based district heating and district cooling to the Texas Medical Center campus.

This project called for an upgrade of legacy control systems to Toshiba's latest control platform by replacing old third-party controls and overhauling a control panel for TECO's boiler system. One of the main challenges was to upgrade the control system to allow for continuous plant operations without any disruptions to production.

Toshiba was able to upgrade the rugged legacy integrated V-series controllers to the latest fast, robust and powerful unified NV-series controllers with seamless integration into Toshiba's revolutionary database-less TOSDIC™-CIE DS/nv SCADA system. The upgrade included program translations and complete hardware replacement for the S. Main Plant controls, Central Plant controls, University of Texas Health Science Center energy plant controls, and boiler combustion controls. TIC also completed re-programming and hardware replacement of Allen Bradley SLC500 PLCs with Toshiba's NV Type 1 Light Series for Boilers 2, 3, 4 and Cooper BMS controls, as well as providing a new control panel, rewiring and re-programming of Boiler 8 combustion and BMS controls. All upgrades were transitioned to new systems without interruption to daily plant operations or incurring any downtime.





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Toshiba has developed commissioning and start-up expertise over many years of providing automation and control solutions. Such expertise has provided value to TECO in helping to improve their performance and continue their operations without any unexpected downtime, providing reliable, and uninterrupted service to their customers.

To see TECO's full testimonial video, visit our webpage:

<https://youtu.be/Wg3K0k6CKsE>



## About Toshiba International Corporation

TIC is a Toshiba America Inc. (TAI) Group Company, a wholly owned subsidiary of Toshiba Corporation. TIC is headquartered in Houston, Texas. TIC provides application solutions to a wide range of industries, including general industrial, oil and gas, utilities, data centers, renewables, HVAC, water/wastewater, and mining. For more information about TIC, please visit [www.toshiba.com/tic](http://www.toshiba.com/tic).

## About TIC Instrumentation & Controls Group

TIC offers instrumentation and control solutions for industries such as power, metals, electric and water treatment. Available products include electromagnetic flowmeters, microwave density (consistency) analyzers, programmable logic controllers, hybrid integrated control platforms, and DCS & PLC integrated systems. Most Toshiba electromagnetic flow meters are backed by a 10-year warranty.

