



# NORTH CHICAGO VETERANS AFFAIRS MEDICAL CENTER

CHICAGO, IL



## SAFETY RECORD

ZERO Recordable Events



## PROJECT SIZE

40 buildings, 400 beds

Phase I: \$13.6M

Phase II: \$15.7M



## PROJECT SCHEDULE

5/21/2002-2/1/2005



## CONTRACT METHOD

Enhanced-Use Lease contract



North Chicago Veterans Affairs (VA) Medical Center was looking for innovative ways to improve energy service and reduce costs for their 40-building and 400-bed campus. They also wanted a secure source of energy and develop a campus energy self-sufficiency program with low risk and no impact to the hospital's services. North Chicago VA partnered with ESG to design, construct, and build a fully operational, full service energy center that will provide electricity and steam to the medical center and associated facilities. The energy center also serves the needs of adjacent Navy training barracks to maximize utility effectiveness and cost savings to the U.S. government.

## SOLUTION

The following energy conservation measures were implemented:

- 2 MW of electric generation
- 2 heat recovery steam generators
- 3 package steam boilers
- 250,000 pounds capacity per hour of steam production for VA and U.S. Navy
- Dual-fuel capability for added energy security
- New steam plant
- Centralized steam supply from energy center for VA and U.S. Navy
- Upgrades and modifications to HVAC control systems
- Chilled water system replacements to maximize energy and cooling effectiveness

**“**Thank you (ESG) for your efforts, your focus, your commitment, and your leadership to complete this plant 5 1/2 months ahead of schedule and under budget”

- **Claude Hutchison**, Director, VA Asset Enterprise Management Office

## RESULTS

From their partnership with ESG, the VA is now has a reliable and secure source of energy to meet all campus needs, reduced energy and operation costs to support the hospital mission, and energy self-sufficiency. In addition, ESG was able to help the VA plan and meet future campus needs by ensuring that the Medical Center receives a percentage of revenues from ALL energy sales to non-VA customers.