



# DISCOVER WHAT'S INSIDE

## FUEL FLEXIBILITY

Abbott  
uses

**77%**  
natural gas

&

**23%**  
coal,

but that can change  
due to fuel prices or  
availability. Fuel oil can  
also be used as  
backup.

This strategic mix  
makes Abbott's  
electricity and steam  
production **cost-  
effective** and  
**reliable**.

Step into Abbott Power Plant and  
discover what's inside – energy  
that keeps the University of Illinois  
at Urbana-Champaign campus  
running year-round.

In fact, **Abbott has been energizing the university since 1940**. Today, the plant reliably produces enough steam to heat the majority of buildings on campus and meet more than half of the campus electrical demand. Steam from Abbott is also critical to the success of groundbreaking research projects.

**Abbott is a combined heat and power (CHP) plant**, producing electricity and recovering waste heat from that process to heat the campus. That makes Abbott nearly twice as efficient as a conventional power plant. Also, since CHP uses much of the waste heat that otherwise would have been rejected to the atmosphere, CHP results in lower overall emissions.

CHP is just one example of **Abbott's commitment to best-in-class energy services** that are focused on the highest levels of reliability, environmental performance, and plant safety. For example, a new, high-efficiency gas boiler was just installed, replacing an older, less efficient, less flexible unit.

With continuous improvement and  
innovation, Abbott Power Plant  
and its CHP system will continue  
energizing the future for  
decades to come.

## **3** SYSTEMS

UNDER

**1**

ROOF

**Gas turbines** generate electricity and heat recovery steam generators capture heat to produce steam for campus space heating, domestic hot water and kitchen use. That process is called combined heat and power (CHP).

**Gas-powered water tube boilers** produce steam that generates electricity from a turbine and is also piped to serve campus buildings.

**Coal-fired boilers** produce steam for electric generation as well as campus use. The university has invested in special equipment to ensure the boilers' flue gases are as clean as possible before being released into the atmosphere.



## **A POWERFUL ENVIRONMENTAL STORY**

Abbott Power Plant's combined heat and power system and its emissions reduction equipment provide significant environmental benefits compared to conventional electric generation and heat-only systems.

### **REDUCES**

**carbon dioxide emissions**  
by 101,000 tons per year.

### **CUTS**

**nitrogen oxide emissions**  
by 560 tons per year.

### **REMOVES**

**more than 90% of the sulfur dioxide**  
from coal that's burned.

### **HOLDS**

**mercury levels**  
to just 7% of the  
EPA's allowable limit.

**For more information, contact**

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[www.fs.illinois.edu/services/utilities-energy/production](http://www.fs.illinois.edu/services/utilities-energy/production)

