WHAT Abbott Power Plant does.
Provides reliable and environmentally responsible electricity for power and steam for space heating, domestic hot water heating and kitchen use to the majority of buildings on the University of Illinois Urbana-Champaign campus.

WHEN it was built.
1940

WHAT technologies make it unique.
• Combined heat and power to optimize energy efficiency
• Fuel flexibility to enhance cost-effectiveness
• Equipment redundancy to provide reliability
• Flue-gas scrubbing to reduce emissions

WHAT key equipment makes it work.

Electrical generating equipment capacity: 84 megawatts (MW)
Generators 1, 2, 3, 4 3 MW (ea.)
Generators 6, 7 7.5 MW (ea.)
Generators 8, 9 12.5 MW (ea.)
Generator 10 7 MW (ea.)
Gas turbines 1, 2 12.5 MW (ea.)

Steam production equipment capacity: 1,010,000 lb/hr
Boilers 2, 5, 6 150,000 lb/hr (ea.)
Boiler 3 175,000 lb/hr (ea.)
Boiler 7 190,000 lb/hr (ea.)
Heat-recovery steam generators 1, 2 110,000 lb/hr (ea.)

Emissions controls
Chiyoda flue-gas desulfurization system (wet scrubber with jet bubbling reactor design)
Electrostatic precipitators (three)

HOW MUCH electricity and steam it produces.
84 MW electricity, with 77 MW peak load
800,000 lb/hr steam, with peak demand approximately 600,000 lb/hr
Abbott in 1940

Electric generating equipment capacity: 6 MW
  Steam turbine generators (two)  3 MW (ea.)

Steam production equipment capacity: 240,000 lb/hr
  Boilers (three)  80,000 lb/hr (ea.)

Peak electrical load: 1.5 MW

Oscar F. Mayer, a founder of Oscar Mayer Co., signed contracts facilitating Abbott Power Plant's startup when he was president of the University of Illinois Board of Trustees, 1938 to 1940.

The plant’s namesake is William L. Abbott, an 1884 mechanical engineering graduate of the University of Illinois. He served on the university’s Board of Trustees from 1905 to 1923. Abbott received the Washington Award – one of the country’s oldest and most prestigious engineering awards – in 1942 and was recognized as “the dean of the electric light and power industry.”

For more information, contact
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www.fs.illinois.edu/services/utilities-energy/production
Abbott Power Plant, 1940