

**FACILITY: FIRST DATA CORPORATION  
AKSARBEN 2 BUILDING  
OMAHA, NE**



**Building Specs**

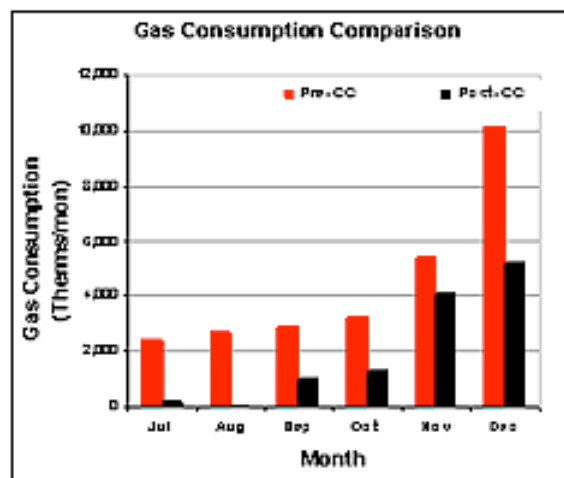
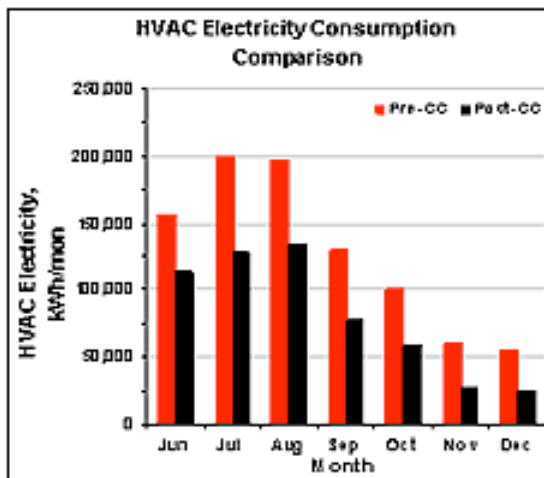
- Built in 2001
- 4-story office building with 195,580 ft<sup>2</sup>
- Two SD VAV AHUs
- Two centrifugal chillers
- Ten boilers
- Advanced EMCS system

**Continuous Commissioning Services  
(completed in June 15, 2003)**

1. Implemented optimal control on AHU, such as static pressure reset, outside air control, and supply air temperature reset.
2. Implemented dynamic airflow reset in terminal boxes.
3. Implemented variable chilled water flow with optimal chilled water supply temperature reset.
4. Modified the boiler operation sequences.
5. Others

**Benefits**

1. Maintain building comfort temperature 24 hours per day and seven days per week.
2. Reduced comfort complaints and improved system reliability.
3. Reduced HVAC utility costs by 45% (over \$0.25/s.f per year) based on last six months of utility data since project completion (June 15, 2003).
4. Qualified for EnergyStar Building in five months after CC completion.



The case studies were performed by Energy Systems Laboratory at UNL and the Omaha Public Power District. The BEST staff were the key engineers.

**Our Vision**

To be the BEST at worldwide energy conservation, while being socially and economically responsible with ecology and the environment.