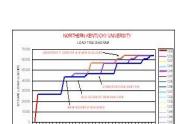
Utilities Master Plan

- Utilities Master Plan
- Energy Reduction



New Boiler House



Load Tree Diagram

The Challenge: A rapidly expanding university was straddled with a utility system that was too small and located in the wrong place. The client needed to handle campus growth without 'breaking the bank' on utility systems.

ISG's Innovative Solution

ISG developed a steam and refrigeration system Master Plan which resulted in:

- A very cost efficient installation of new utility systems and building.
- Reduced life cycle costs resulting in the most economical approach to providing for the university's long-term needs.
- An aesthetically attractive building combined with a new below-grade utility tunnel.
- System efficiencies such as primary/secondary pumping systems, innovative use of control systems for energy-efficient system staging and the use of high efficiency equipment were employed to minimize operating costs while maximizing reliability.

Benefits to Client

- With the addition of the New Boiler House the university's future expansion plans can be more easily achieved.
- Overall energy costs have been reduced by more than 15% by installing the energy-efficient systems.