



CASE STUDY

Rutgers University

Major Campus Electrical System Upgrade to a 69kV Substation

Concord Engineering worked with Rutgers University to evaluate and perform engineering design and construction services for upgrades to their overall campus electrical system. Concord worked with the University to upgrade the campus electric utility service to 69kV from the previous 26.4kV source. Concord provided utility coordination with PSE&G for a new protective relay as well as metering requirements associated with the new substation. The project is operational, and is owned and operated by Rutgers University and PSE&G.

Concord also developed a 26.4-13.8kV substation and connections to the existing Busch campus 26.4kV substation and an Intercampus 26.4kV cable extension and a new 26.4-13.8kV substation on the Livingston Campus.

THE CONCORD DIFFERENCE

- Proven Utility Grade Experience Transmission and Distribution background
- Fast, Responsive, and Descriptive Designs
- Utility and ISO level interconnection expertise
- Competitive Engineering Rates for High Quality Services

CONCORD ENGINEERING SOLUTION

- A new 90 MVA power facility
- 69kV ring bus configuration using SF6 insulated circuit breakers
- Outdoor liquid-filled transformers to step the voltage down to 26.4kV
- Medium voltage distribution switchgear to distribute the 26.3kV power to their existing substation on-site
- Two new 26.4kV substations built in the following five years

LOCATION

Piscataway, NJ

SERVICES

Power Engineering Engineering Design Construction

+ TAGS

Substation Utility Interconnection Higher Education

GET IN TOUCH

Power Engineering concord-engineering.com (856) 427-0200