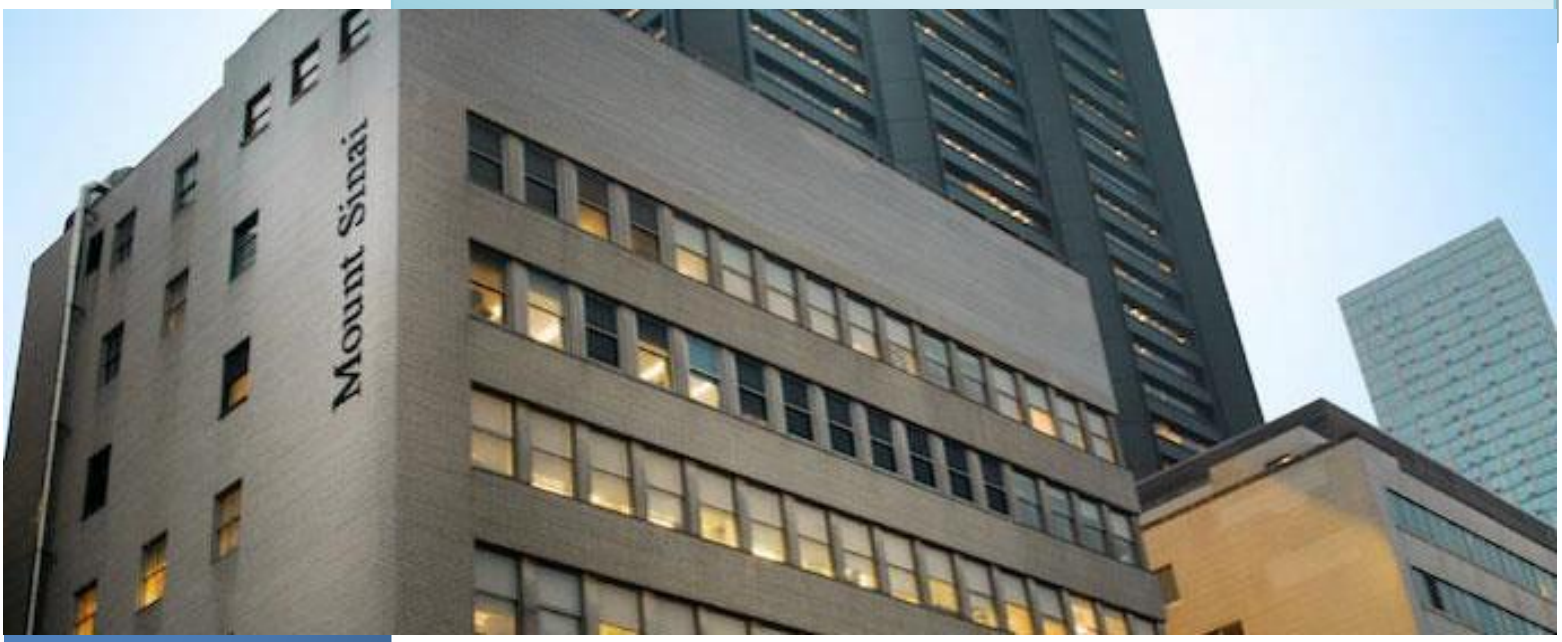
Mount Sinai Health System: Upgrading Emergency Power Infrastructure without Disruptions to Hospital Operations



SERVICES

Commissioning

PROJECT SNAPSHOT

Concord Engineering is the sole commissioning agent for Mount Sinai Health System, serving as an owner's representative and providing technical commissioning service for all projects within the system. For this project, Concord provided electrical upgrades to increase backup power during outages, and energy power for the hospital. A critical challenge we met was the need to complete all work without disruptions to hospital operations.

REFERENCE

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PROJECT BACKGROUND

Mount Sinai Health System serves New York City residents at seven locations, with over 3,500 patient beds and 135 operating rooms. In 2022, Concord Engineering was selected as the system's sole commissioning agent of record to provide commissioning services for all projects at Mount Sinai. This project involves a multi-phase plan to increase energy and backup power to ensure critical hospital systems remain operational during power outages and increase the energy power for cooling during extended power outages.

THE CHALLENGE

- Concord needed to complete all project phases while keeping the hospital fully operational with no power disruptions.
- We needed to mitigate and reduce budget uncertainties that had become problematic before Concord was brought into the project.

THE CONCORD DIFFERENCE

- ✓ **Extensive experience with design-build projects.**
- ✓ **Earning trust to serve as an owner advocate and sole commissioning agent.**
- ✓ **Transparent budget and on-time delivery of results.**
- ✓ **Experience minimizing disruptions during construction**

THE SOLUTION

- We completed all work with budget transparency and without any operational disruptions.
- Our infrastructure upgrades included adding a new Automatic Transfer Switch (ATS) for the Chiller System, which can be used in both Emergency Power Conditions and Demand Management Operation for the ultility company's Demand Response program.
- We installed four 1500kW Diesel Generators mounted within pre-packaged enclosures on the hospital's roof.
- The next phase of this project will bring existing emergency loads to the new generator plant, which will require testing and bringing them back online.