

Commissioning - Recreation Prospect Park Lakeside Ice Rink Brooklyn, New York

Program
plaNYC

Scope of Services

- DOE-2.1E Whole Building Modeling
- Local Law 86 Compliance
- EEM/Sustainable Design Coordination
- LEED Fundamental Commissioning
- LEED Enhanced Commissioning

Level of Involvement

Energy Modeling Consultant
LEED Commissioning Authority

Facility Size

14,000 sq. ft.

Facility Type

Ice Rink

Project Results

Pursuing LEED-NC v2.2 Silver Certification
NYC Local Law 86 Compliance

The City of New York Department of Parks & Recreation Prospect Park Alliance (PPA) is renovating 26 acres of the southeast quadrant of Brooklyn's Prospect Park for the relocation and replacement of Wollman Rink with the new Lakeside Center – a year-round recreation center providing seasonal ice skating, community and recreational space and picnic grounds. The facility is being designed to maximize energy efficiency while minimizing obstruction to the environment and the surrounding Park. Lakeside Center will be comprised of an L-shaped building that partially borders two outdoor ice rinks. The ice rinks will be used seasonally during winter and early spring months and during summer and fall months to provide open space and an outdoor water feature.

Facility mechanical systems include the ice rink brine based refrigeration system, heat pump



Lakeside Ice Rink

system to provide summer and winter space conditioning supported by cooling towers and condensing boilers. Space conditions will be controlled by a BACnet based building management system that maintains temperature control and cooling tower, boiler and pump operation.

The primary goal of commissioning is to deliver a fully functional, fine-tuned building with complete documentation and an adequately trained operating and maintenance staff. This commissioning process is a quality control based approach to document the installation of the equipment via the completion of construction checklists, verification of proper system operation by witnessing the testing of the system operation, and verification of staff training and record documentation. Commissioning is a systematic process to ensure that building systems are designed, installed and perform interactively according to the owner's programmatic and operational needs and the design intent. Commissioning is thus the owner's means of verifying that the planning, design, construction, and operational processes are achieving their goals and ensuring the delivery of a high quality building with maximum asset value. Commissioning is recognized by organizations such as ASHRAE, USDOE, and the USGBC to promote consistently successful construction projects.

The commissioning activities include verifying that the proper project documentation had been delivered and that personnel were properly trained on the equipment. We ensured that the start-up reports and TAB reports were done and followed by functional testing that demonstrated that the equipment and systems were performing in accordance with the design intent.