



Buildings of Excellence

Award Winner

Variety Boys & Girls Club of Queens

PROJECT SPECIFICS:

- Winner of NYSERDA's Buildings of Excellence Award – Round 3; Incentive awarded: \$1M
- Owner: VBGQ + Mega Group Development, LLC
- High-rise redevelopment with 232 affordable and supportive housing units in conjunction with the rebirth of a newly constructed landmark of 125,393 sqft. Boys & Girls Club space.
- 21-12 30th Road, Long Island City NY

KEY TERMS:

#New construction
#NYSERDA BoE #LL97
#LEED #Fitwel #Water Saving #Building Simulation #Energy analysis #GHG emission reduction
#ERM Analysis #Central heat pump water heating
#Renewable energy, #VRF #Induction cooktop #Smart building controls #ERV #Carbon Footprint



SUSTAINABILITY FEATURES

- HIGH DENSITY OF RESIDENTIAL UNITS
- ALL ELECTRIC SYSTEMS, INCLUDING COOKING AND COMMON KITCHEN AREAS
- ON-SITE RENEWABLE SYSTEM ON ROOFTOP, DESIGNED TO MAXIMIZE SOLAR POWER GENERATION
- BATTERY STORAGE IN BUILDING TO CAPTURE AND STORE RENEWABLE ENERGY DURING DAYLIGHT, USE ENERGY DURING PEAK DEMAND HOURS
- PARTICIPATE IN DEMAND-RESPONSE PROGRAM TO REDUCE DEMAND ON UTILITY PROVIDER, RESULTING IN MONETARY BENEFITS
- OVERRSIZED HOT WATER TANK TO STORE HOT WATER PRODUCED AT NON-PEAK TIME OF CONEDISON GRID
- EV CHARGING FOR FOUR PARKING SPACES
- STRONG TRANSIT-ORIENTED DEVELOPMENT WITH WALK SCORE OF 97
- MERV 13 FILTERS + UV FILTERS FOR COVID-LIKE PREPAREDNESS IN CLUB AND RESIDENTIAL AMENITY SPACES
- FITWEL CERTIFICATION TO ENSURE OPTIMAL INDOOR ENVIRONMENT THAT ADDRESSES PHYSICAL AND MENTAL WELL-BEING OF OCCUPANTS
- WATER MANAGEMENT STRATEGIES ENSURING DURABILITY OF CONSTRUCTION
- INTEGRATED PEST MANAGEMENT PLAN TO SUPPORT PEST CONTROL
- REDUCTION TO EMBODIED CARBON PURSUED BY MEANS OF SELECTION OF BUILDING MATERIALS WITH LOW CARBON FOOTPRINT
- GEOTHERMAL HEAT PUMP IN CLUB TO REDUCE USE OF REFRIGERANTS
- USE OF LOW GWP REFRIGERANTS IN VRF SYSTEMS & MECHANICAL SYSTEM DESIGN OPTIMIZATION FOCUSING ON EFFICIENT REFRIGERANT LAYOUT
- DESIGN FOR ACTIVE OCCUPANTS: VISUAL CUES, LIGHTING AND CONTRASTING MATERIAL SELECTIONS FOR STAIRCASES TO ENCOURAGE ACTIVE LIFESTYLE, SUPPORTED BY ENCOURAGING SIGNS IN ELEVATOR CALL AREAS
- ACTIVE OUTDOOR/INDOOR OPPORTUNITIES: GREEN TERRACES WITH SEATING AND LANDSCAPING THAT IS OPEN TO ALL, RECREATIONAL ROOMS IN THE RESIDENTIAL AND SPORTS OPPORTUNITIES IN THE CLUB FOR ACTIVE LIFESTYLE
- HEALTHY FOOD ALTERNATIVES IN CLUB AND ACCESS TO DRINKING WATER AT ALL COMMON AREAS



A. PASSIVE SURVIVABILITY
AREA OF REFUGE IN CLUB SPACE FOR COMMUNITY TO ACCESS
B. ACTIVE OUTDOOR OPPORTUNITIES
SPORTS AND PLAY OPPORTUNITIES IN CLUB FOR ACTIVE LIFESTYLE
C. PASSIVE SURVIVABILITY
COMMON KITCHEN CAFE TO PROVIDE MEAL OPTIONS FOR EMERGENCY NEEDS



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