

TOMORROW'S CITY TODAY

Hudson Yards will be far more than a collection of tall towers and open spaces. It will be a model for the 21st century urban experience, an unprecedented integration of buildings, streets, parks, utilities and public spaces that will combine to form the most connected, clean, reliable, efficient and responsive neighborhood ever.

CONNECTED NEIGHBORHOOD

Communications will be supported by a future-proofed fiber loop, designed to optimize data speed and service continuity for rooftop communications, as well as mobile, cellular and two-way radio communications. This will allow continuous access via wired and wireless broadband performance from any device at any on-site location.

- Rooftop satellite
- Digital antennae service (DAS) for cellular and two-way radio
- Wireless responders

CLEAN NEIGHBORHOOD

The waste-management systems are designed to keep garbage out of sight. A vacuum-tube system that will accommodate three waste streams (organics, recyclables and trash) will send retail and residential waste straight from chutes on each floor to a central terminal—eliminating piles of garbage on sidewalks and considerable trash hauler traffic. Meanwhile, food-service organic waste will be converted to dry fertilizer at 10% of its initial weight and size.

- Three-stream (organic/recyclable/landfill) waste-vacuum system
- Organic-waste disposal system

RELIABLE NEIGHBORHOOD

Whatever the disruption—super storm, brown out—Hudson Yards will have the onsite power-generation capacity to keep basic building services, residences and restaurants running. It doesn't hurt that being built above a rail yard means our first level is well above the flood plain.

- 13.2 megawatts of cogen
- 15 megawatts of Tier 4 diesel generators
- Accommodation for supplemental, tenant-owned generation

EFFICIENT NEIGHBORHOOD

Buildings at Hudson Yards are connected through a micro grid allowing them to be heated and cooled with their own equipment, or that of their neighbor. If on a Sunday, air conditioning is needed for just a few occupants in an office building, it can come from the already-active retail center rather than powering-up the entire commercial tower's cooling plant. And data from an energy management system will be used to generate, buy and conserve power across the neighborhood.

- Hot/chilled water plant
- Micro-grid

RESPONSIVE NEIGHBORHOOD

Hudson Yards will harness big data to innovate, optimize, enhance and personalize the employee, resident and visitor experience. Supported by an advanced technology platform, operations managers will monitor and react to traffic patterns, air quality, power demands, temperature and pedestrian flow to create the most efficiently navigated and environmentally attuned neighborhood in New York.

- Environmental sensors (air, noise, other environmental factors)
- Electrical and thermal sub-metering
- Building data-capture sensors (systems, equipment)
- Advanced technology platform

