

HOW

MODERNIZATION + GREEN STRATEGIES



EXTERIOR WALL

The insulation value of the exterior wall system, which consists of more than 16,000 windows and metal panels, will be upgraded. These upgrades will achieve up to 30 percent of heating energy.



MECHANICAL SYSTEMS

The mechanical systems will be upgraded to save energy through higher efficiency equipment, stack effect reduction and the introduction of fuel cell boiler plants.



DAYLIGHTING

By expanding daylight harvesting, the tower will save electrical energy and improve the work environment. Proposed methods include advanced lighting controls, higher ceilings, light shelves and more efficient light fixtures.



GREEN ROOFS

Green roofs at the tower will be the highest in the United States, reducing storm water runoff, improving insulation, and helping to mitigate the urban heat island effect.



WATER SAVINGS

The tower will upgrade its plumbing systems using the latest technology to reduce its water usage by up to 24 million gallons annually.



OPERATIONS AND MAINTENANCE

The tower has introduced several new operational policies, including green cleaning, a bike-sharing program, bike storage, and a new recycling policy.



SOLAR HOT WATER

Solar hot water panels at the 90th-story roof level will help provide water for the building's restrooms. They will also be the highest solar panels in the United States.



WIND TURBINES

Taking advantage of the tower's height and location, wind testing will be performed at the highest roofs, to help advance the use of building-integrated wind power in existing structures.



VERTICAL TRANSPORTATION

The tower's elevator equipment will be modernized to provide greater energy efficiency and continued reliability.

UP TO 80% LESS
BASE BUILDING
ELECTRICITY

WHY

CONSERVES MORE THAN 52,000,000
KILOWATT HOURS PER YEAR, OR:

5,000,000
FEWER MILES OF
HIGHWAY DRIVING



+

50,000
FEWER BARRELS
OF CRUDE OIL



= +

ELECTRICITY FOR
2,500 AVERAGE
CHICAGO HOMES



+

5,000,000
LIGHTBULBS
SAVED

