SEATTLE CENTRAL LIBRARY

FAST FACTS:
25% water reduction
68% energy reduction
78 new bike stalls installed
Project Background:

Seattle's Central Library, which hosts more than 2 million visitors annually, is a civic treasure and a model of environmental sustainability. The project includes space for more than 1.45 million books and materials and over 400 public computers, marrying form and function with an award-winning design that embodies the City's commitment to create a twenty-first century civic and cultural resource which also proclaims our desire to lead the nation in adoption of green building principles.

This project hoped to create a building that would serve as the anchor for the city's cultural and community life and to meet long-term needs for operational and environmental sustainability. Electricity consumption is significantly less than predicted, and the building consumes 50% less electricity and one-third less water than a similar building without efficiency measures. The Library achieved LEED Silver certification and the overall energy performance already exceeds the 2030 goal.

Innovative Measures:

Energy:
High-performance glazing system, daylighting, displacement ventilation system, high efficiency condensing boilers, chillers and pump motors, computer controlled zone HVAC, ongoing operating procedures schedule for lights, escalator, and elevator during non-public hours

Water:
Low flow fixtures, including urinals and metered faucets; rainwater collection in 38,500-gallon tank used for landscape irrigation, eliminating potable water use for landscape purposes; drought-tolerant plants

Transportation:
Bike parking and showers; employee participation in the City's commute trip reduction program; proximity to public transit

Other:
No CFC-based refrigerants in air conditioning, no halon gases in fire suppression

BUILDING STATISTICS
Owner: The Seattle Public Library
Manager: City of Seattle
Building Type: Recreation and Culture
Location: 1000 Fourth Avenue
Built/Renovated: 2008
Square Feet: 412,000
Number of Floors: 10.5
Structure: Concrete and Steel
Envelope: Curtain Wall
Energy Star Score:

ENERGY
EUI: 59 KBtu/sf/yr
Baseline EUI: 139 KBtu/sf/yr
Reduction: 68%
Cost savings: $

WATER
Reduction: 25.1% below EPCT standards

TRANSPORT
Installed 78 new bike stalls and employee showers

Drive-Alone Trips District Average: 35%
Rideshare Trips District Average: 10%
Transit Trips District Average: 43%
Walk/Bike Trips District Average: 12%