East Portland Community Aquatic Center

PORTLAND, OREGON

LEED Platinum

Services
MEP Engineering
Sustainable Design
Building Technologies
Energy Services
Fire/Life Safety
Commissioning
Lighting

FAST FACTS

Architect
SERA Architects

General Contractor
Lease Crutcher Lewis

Completion
November 2008

Building Size
22,000 sf

Project Cost
$12 million

Contact
Richard Bosch, Project Manager / Portland Parks & Recreation Department / 503.823.5591

Energy:
59% of operation costs saved
75% of total output saved

Water:
50% reduction

Photograph: SERA Architects

Derailed by a shrinking budget, original plans for the East Portland Community Center's Aquatic addition were shelved for nearly ten years. When funds were finally earmarked for the project in 2006, it was decided the long-awaited aquatic addition would not just be an enhancement to the community center, but a shining example of green design and a prototype for future aquatic centers. The complete addition will include a lap pool, leisure pool, spa, shower facility, restrooms, offices, mechanical rooms and multipurpose rooms.

The project was recently awarded LEED Platinum certification due to several sustainable design features that significantly reduced energy use. In fact, thanks a creative additional heat pump energy recovery system plus other sustainable measures designed by Interface, the project was awarded all ten LEED energy points during the certification process.

Interface prepared the necessary code appeals to allow for some of these innovative design features:

» A 75KW+ solar array on the building will produce over 15 percent of the building's energy use. Solar thermal systems will pre-heat water for the building showers.
» An advanced pool filtration system is expected to save nearly one million gallons of water each year.
» Daylight and occupancy sensors were designed for multipurpose rooms, changing rooms and restrooms.
» Variable speed high efficiency pumps, including the pool pump, and high efficiency rooftop HVAC units are used.
» Energy recovery from locker room exhaust air pre-treats incoming air for the lockers and public spaces. A heat pump system is used for energy recovery from exhaust air to heat pool water and for space heating.

INTERFACE ENGINEERING