



The Bertschi School's Living Science Classroom Fact Sheet

The **Restorative Design Collective**, a team comprised of leading green building professionals, completed a pro-bono design of a new science classroom for The Bertschi School, an independent elementary school on Capitol Hill in Seattle. Designed to meet the standards of [version 2.0 of the Living Building Challenge](#), this classroom will generate its own energy with renewable resources (net-zero energy), collect and treat all water onsite and operate at a high rate of efficiency.

Location:	Capitol Hill neighborhood of Seattle, Washington
Client:	The Bertschi School
Construction Start:	June 2010
Completion:	November 2010
Building Size:	1,425 SQ. FT.
Lot Size:	3,800 SQ. FT.

Sustainable Elements:

- Net-zero energy: solar power
- Net-zero water: green roof, rain garden, composting toilet, and an interior green wall to treat grey water.
- On-site agriculture and ethnobotanical garden
- Interior and exterior waterrunnel to show water cycle flow
- Porous pavement
- Daylighting strategies and insulating, light-transmitting glass
- Radiant floor heating
- Natural ventilation
- Extra insulation (R-40 Walls)
- Materials used are local, regional, low-VOC, recycled and rapidly renewable
- FSC-certified wood
- Building features the work of several local artists
- All sustainable aspects, including monitoring equipment, accessible and visible to students

Project Team:

Architecture:	KMD Architects
Landscape Architecture:	GGLO
Civil Engineering:	2020 Engineering
Geotechnical Engineering:	GeoEngineers
Structural Engineering:	Quantum Consulting Engineers
Mechanical/Electrical/Plumbing:	Rushing
Sustainability Consultant:	O'Brien and Company
Urban Ecologist:	Back To Nature Design LLC
Public Relations Services:	Parsons Public Relations
Preconstruction/Construction Services:	Skanska

Key Collaborators:

Organizational:

Jurisdictional:

Jurisdictional:

Cascadia Region Green Building Council

King County GreenTools

**City of Seattle Department of Planning and
Development Green Building Program**

About the Restorative Design Collective

The Restorative Design Collective is an organization comprised of design professionals committed to advancing the movement toward truly sustainable buildings. Working pro bono, the Restorative Design Collective provides design services, from the initial concept phase through construction documents, in order to further knowledge of living buildings, ensure that deep green principles are implemented in a local project, and push the envelope of sustainability.