

37%

water use reduction

48%

projected utility cost savings

78%

reduction of potable water use for irrigation

The Allison Inn & Spa Newberg, Oregon

Completion:	September 2009
Project size:	32 acres 148,818 sf 85 Guestrooms
Owner:	Springbrook Properties, Inc.
Architecture:	GGLO
Landscape Architecture:	GGLO
Interior Design:	GGLO
Contractor:	Lease Crutcher Lewis
Civil Engineer:	Cardno WRG
Structural:	KGA
Commissioning:	BEA Consulting
MEP Engineer:	Glumac



LEED® GOLD

for New Construction
certification awarded April 2010

LEED Points:	49
Sustainable Sites:	9 of 14
Water Efficiency:	3 of 5
Energy & Atmosphere:	15 of 17
Materials & Resources:	7 of 13
Indoor Environmental Quality:	10 of 15
Innovation in Design:	5 of 5

LEED® CREDIT HIGHLIGHTS

Sustainable Sites

- SS 4.2 Alternative transportation for guest and employees including biking, low-emitting vehicles, and carpooling are encouraged
- SS 5.1 Native and adaptive planting maximize open space and provide habitat
- SS 6.1 Vegetated roof, swales and permeable paving filter and mitigate stormwater
- SS 7.2 Planted roof and low sloped roofing materials reject solar heat buildup to minimize the building's micro-climate impact

Water Efficiency

- WE 1.1 Drought tolerant landscape utilizing high-efficiency irrigation reduce potable water use by over 78%
- WE 3.1 High-efficiency toilets, low-flow showerheads and faucet aerators reduce water use by 37%

Energy & Atmosphere

- EA 1.1 Envelope improvements combined with digital controls, high-efficiency mechanical systems, equipment and lighting provide a projected 48% energy costs savings
- EA 2.1 55 kW photovoltaic array and 3,800 sf solar water heating reduce energy consumption

Materials & Resources

- MR 2.1 90% of construction waste diverted from landfill
- MR 4.1 28% of total building materials contained recycled content
- MR 5.1 24% of materials regionally sourced and manufactured
- MR 7 55% FSC certified wood products

Indoor Environmental Quality

- EQ 6.1 Controllability of lighting and HVAC systems promote comfort and well-being for guests and staff
- EQ 7.1 Quality HVAC systems provide thermal comfort
- EQ 8.1 Daylight is provided in 75% of the guest, public and staff areas

Background

The Allison Inn & Spa reflects the bounty of Willamette Valley and demonstrates that luxury, comfort and quality do not have to be compromised for energy efficiency and sustainability.



Better Site Design

- Vegetated swales, vegetated open-cell pavement, more than 10,000 sf of planted roof, and settling ponds slow down and remove potential pollutants from storm water run-off
- Extensive native and adaptive vegetation used throughout and restored woodland along northern property boundary promote biodiversity

Conserving Water

- Drought tolerant vegetation and high-efficiency irrigation reduces potable water use
- Irrigation system will accept future City of Newberg reclaimed water supply which will eliminate potable water use for landscape irrigation in the future
- Low-flow shower heads, faucets, urinals, and high-efficiency toilets reduce water use in public areas and guest rooms
- High-efficiency kitchen equipment reduces potable water and water heating demand

Conserving Energy

The Allison Inn & Spa consists of many uses which ordinarily would categorize this project as a high energy consuming property. However, incorporation of energy efficiency was a high priority throughout the design process. This focus resulted in an anticipated energy cost savings of almost 50% relative to a conventionally designed building:

- Solar Power: 55 kW photo voltaic array on southern rooftops produces electricity on-site to reduce the need for fossil fuels
- Solar Hot Water: rooftop collectors reduce the large need for heating water related to the kitchen, laundry, guest rooms, and spa
- Thermally broken, double-pane, low-e windows and south facing orientation reduce heating loads
- Variable Refrigerant Volume (VRV) heating and cooling provide superior efficiency in comparison to typical hospitality HVAC system
- Energy efficient lighting & controls reduce electricity usage

Better Materials & Indoor Environment

Materials were selected for their durability, promotion of healthy indoor air quality, recycled content and location of harvest and manufacturing:

- Low-emitting paints, sealants, carpeting, and cabinetry combined with natural daylighting contribute to the health of the indoor environment
- 55% of total wood based materials are harvested from FSC certified forests
- Rapidly renewable aspen fiber flooring enriches the spa while reducing the demand on old growth timber

