

Lewis Integrative Science Building – Sustainable Assessment Programs

The documents in the attached Reading Packet describe sustainable assessment programs/guidelines the LISB building may elect to follow. The final category, SEED, is mandated, as is the State's DAS-LEED program.

The Living Building Challenge – the Cascadia Chapter of the U.S. Green Building Council has launched an aggressive program to promote buildings that exceed LEED Platinum standards. Including goals of net zero energy and carbon neutral design, construction and operation, the Living Building Challenge is just that – a true challenge. **Pages 2-26**

The 2030 Challenge - A progressive performance initiative created by Architecture 2030, the 2030 Challenge asks participants to create buildings that are carbon neutral by the year 2030. **Pages 27-29**

Net Zero Energy Buildings – Simply put, Net Zero Energy Buildings (NZEBS) use zero energy from the utility grid calculated over an annual basis. This suggests an aggressive program of load reduction and providing on-site renewable energy generation. **Pages 30-44**

Carbon Neutral Buildings – Carbon emissions reduction has become a top tier international priority to reduce global warming. The design, construction and operation of buildings is considered to be the # 1 source of such greenhouse gases. There are multiple ways to calculate a project's carbon footprint. This Environmental Building News article describes the pros and cons of different carbon impact calculator tools. **Pages 45-48**

Labs21 Partner Program – The Labs21 program is a joint initiative of the U.S. Dept. of Energy and the U.S. Environmental Protection Agency. It's prime goal is to reduce the energy demand and environmental impact of laboratory buildings. Joining their Partner Program provides multiple benefits and offers the opportunity to showcase a project nationally. **Pages 49-50**

LEED – The Leadership in Energy & Environmental Design Green Building Rating System is a well-known assessment system created by the U.S. Green Building Council. Details of this program are found at www.usgbc.org. Included in this document is an introductory overview and the 2-page scorecard of the most current version of LEED for New Construction - LEED 2009. **Pages 51-56**

Note: The State of Oregon requires that publicly funded projects conform with its own version of LEED Silver, know as **DAS-LEED**.

SEED – The State of Oregon State Energy Efficient Design (SEED) program requires most state agency building projects to follow a rigorous program to ensure that they are high performance projects. More information, including the complete SEED guidelines are found at: <http://oregon.gov/ENERGY/CONS/SEED/index.shtml>. Included in this document are Frequently Asked Questions about the program. **Pages 57-59**