



CLARK COUNTY

Sustainable Communities

Developing Tools + Resources



CASCADIA
REGION GREEN BUILDING COUNCIL

Project Vision

*Support and encourage sustainable communities in Clark County with emphasis on innovative models of **land use, transportation, and resource-efficient residential/mixed use projects.***



Meeting Purpose

Solicit feedback from the building community on the types of tools and resources needed by local builders, developers, and homeowners to incorporate sustainable development practices into their projects.



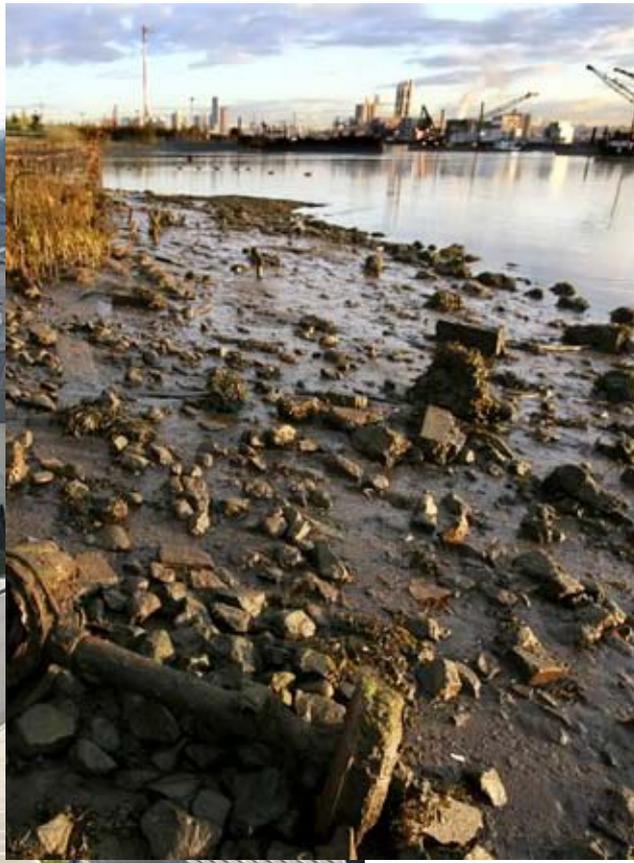
Audience

private sector building +
development industry

resources will target local
community

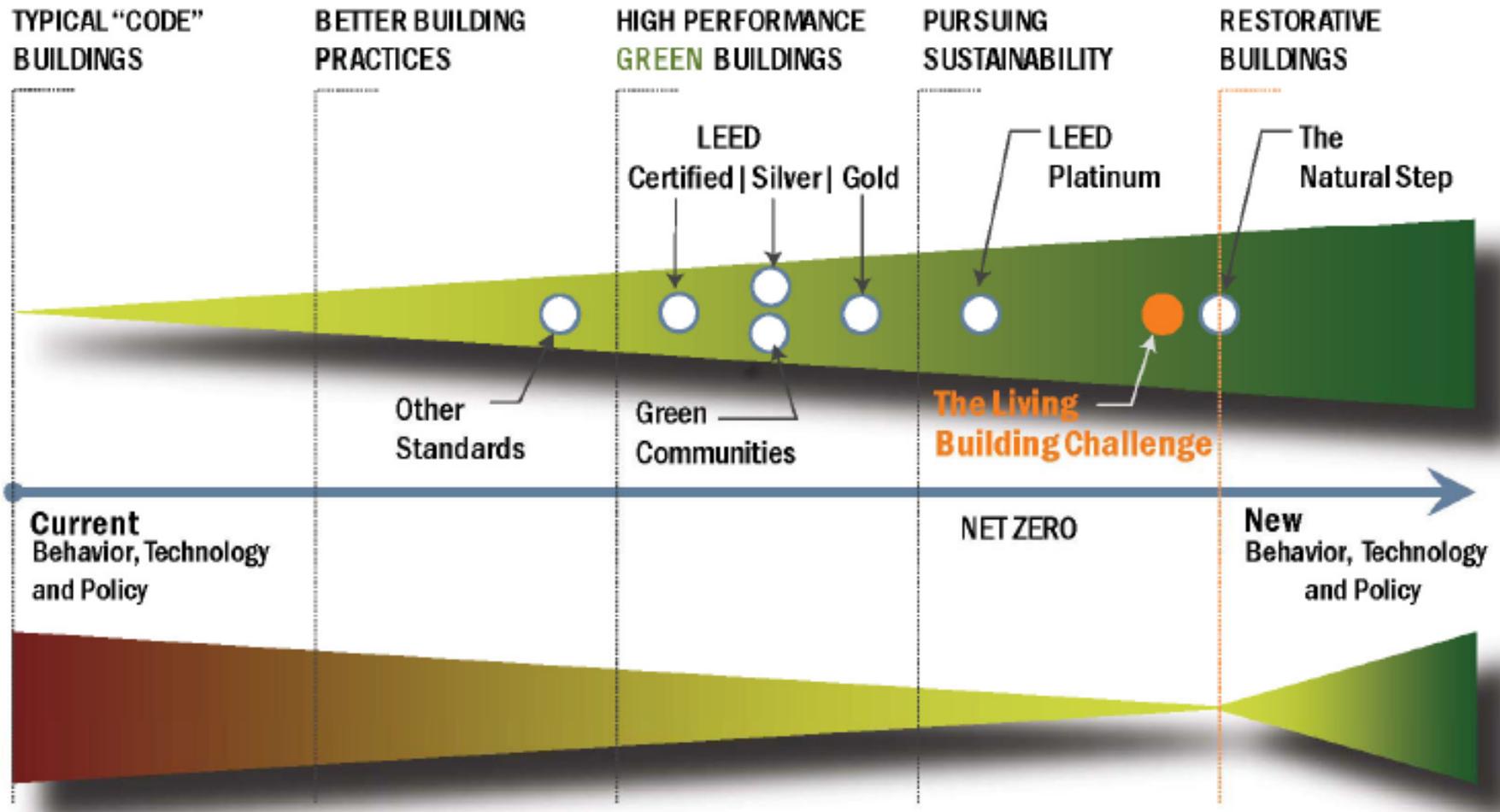


Assumptions....



Our current (and even our best) practices continue to do harm.

Shades of green



Visioning Sustainable Communities



Lopez Community Land Trust

11 owned, 2 rented units
on 11 acres

Maintains rural character

Affordable/ sweat equity
model

Extensive rainwater
catchment



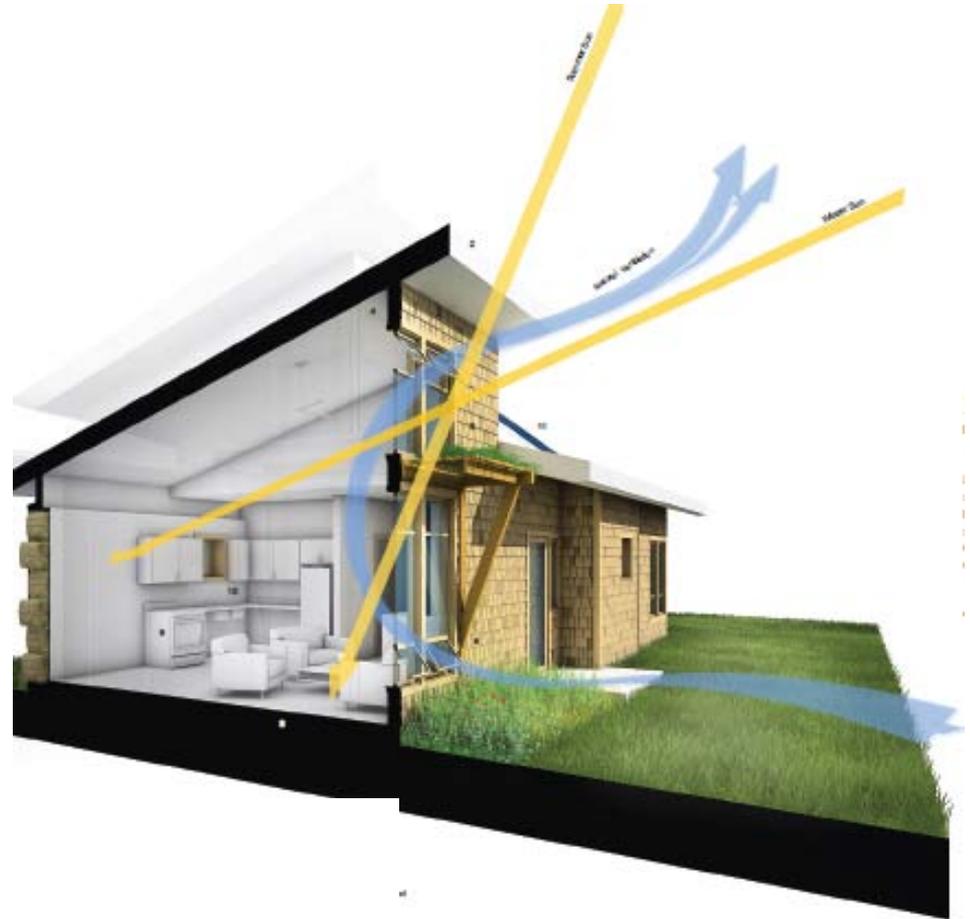
Lopez Community Land Trust

740-890 s.f. homes

Straw bale construction

Wind generation, PV and geothermal

Energy + water independence goals



Z-Home

Zero net energy, zero
net CO₂ emissions

40-60% less water use

Low impact site design

Micro-car parking;
located near transit
park and ride and
community retail center



David Vandervort Architects

Z-Home

Public-private model

Performance
benchmarks
driving design

Replicable model
suburban or urban



David Vandervort Architects

High Point Community

120 acres, 1,700
affordable and market
Units, HOPE VI project

Built Green, ENERGY
STAR certified homes

ALA Healthy Homes



Seattle Housing Authority

High Point Community

Green requirements for
spec builders

Award winning LID
Development

Partnership with utilities
for R+D funds



Brewery Blocks

Former Blitz-Weinhard
brewery built in 1856

Purchased for
redevelopment in 2000

Retail, offices, and
residential

Located in the Pearl District



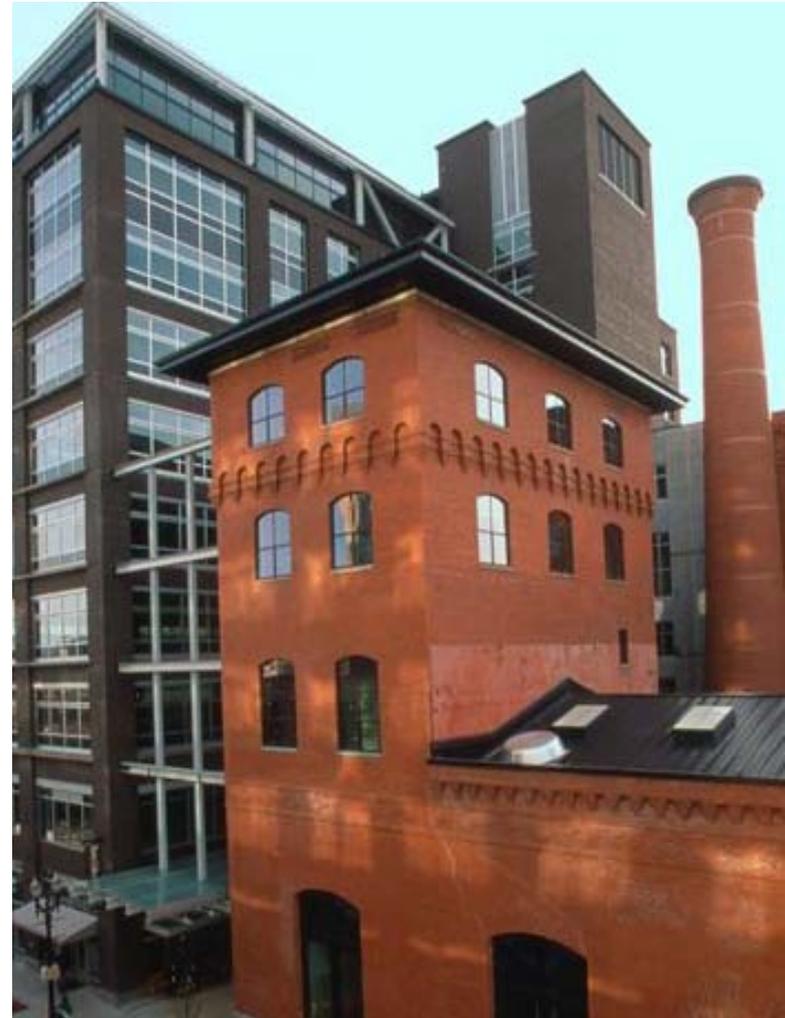
Gerding Edlen

Brewery Blocks

Successfully leased during
economic downturn

Record sale/unit in 2007

4 buildings: 3 LEED Gold
 1 LEED Silver



And beyond....

building integrated agriculture

net zero energy and water

eco-districts



What are the **OBSTACLES** to true innovation?

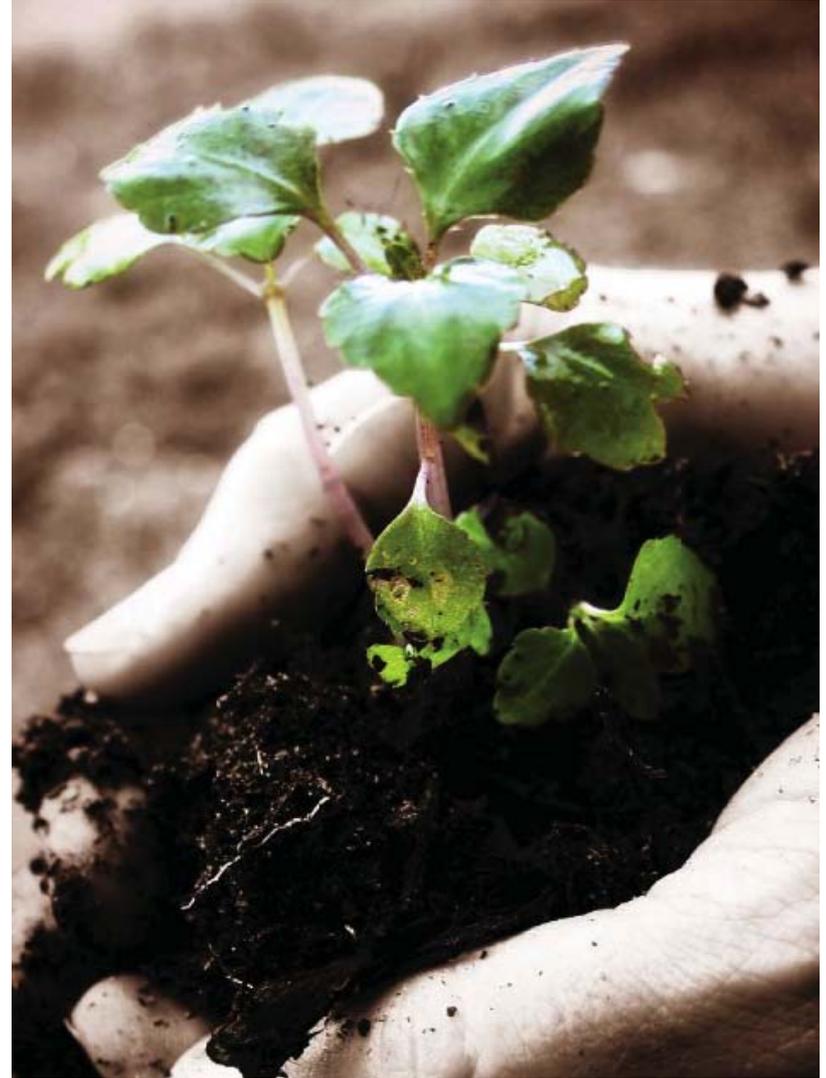


Barriers

Financial and Market-Based

Code and Regulatory

Technical and Education

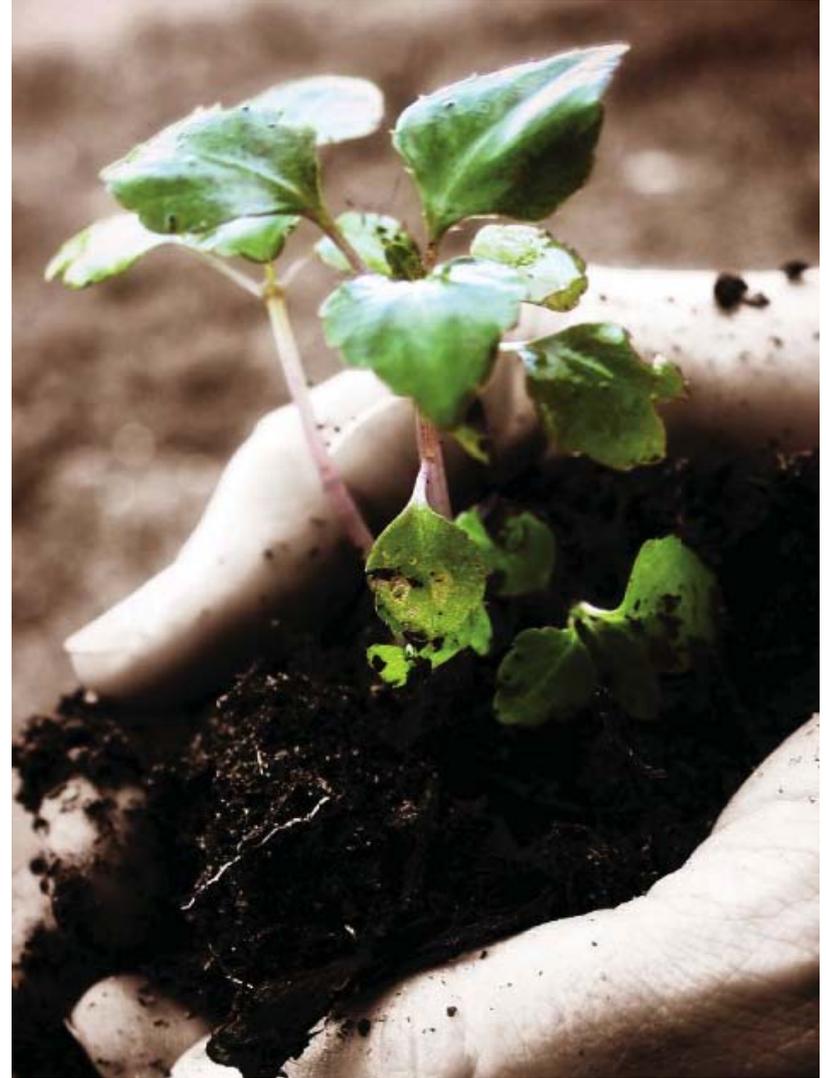


Barriers

Financial and Market-Based

Code and Regulatory

Technical and Education



Example Resources + Tools

Trainings/Tours

e.g. AIA+2030



Example Resources + Tools

Trainings/Tours

e.g. Oregon's Solar Now!
Workshops and Tours



Example Resources + Tools

Online Technical Resources

e.g. High Performance Buildings Database

e.g. North Carolina's Green Building Technology Database

The screenshot shows the website for the U.S. Department of Energy Energy Efficiency and Renewable Energy Building Technologies Program. The page features a green header with the program name and a navigation menu with options like 'About the Program', 'Program Areas', 'Information Resources', 'Financial Opportunities', 'Technologies', 'Deployment', and 'Home'. The main content area is titled 'Buildings Database' and includes a search bar, a 'Go to next project on the search list...' button, and a detailed overview for the 'Factor 10 House (F10)'. The overview lists key details such as location (Chicago, IL), building type (single-family residential), construction status (new), area (1,830 ft²), project scope (2-story building), and completion date (August 2003). A photograph of the house is shown on the right, with a photo credit to Doug Snower Photography.

U.S. Department of Energy
Energy Efficiency and Renewable Energy *Bringing you a prosperous future where energy is clean, abundant, reliable, and affordable*

Building Technologies Program

About the Program | Program Areas | **Information Resources** | Financial Opportunities | Technologies | Deployment | Home

Buildings Database

Buildings Database Home

Go to next project on the search list...

Factor 10 House (F10)

Overview

- Location: Chicago, IL
- Building type(s): Single-family residential
- New construction
- 1,830 ft² (170 m²)
- Project scope: 2-story building
- Urban setting
- Completed August 2003
- Construction was delayed for two years because the City of Chicago went through three separate contractors.
- Rating: HERS -- Level: 86

Photo credit: Doug Snower Photography



Example Resources + Tools

Online discussion forum

e.g.

greenbuildingadvisor.com

Q+A forum on code

e.g.

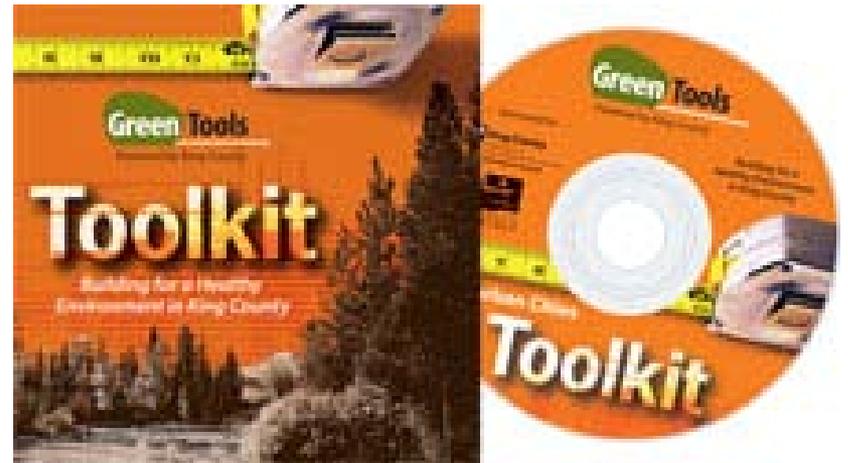
dialogue with local code officials



Example Resources + Tools

DVD

e.g. GreenTools toolkit



Example Resources + Tools

Video + Advertisement

e.g. Built Green videos



Example Resources + Tools

Print Materials

e.g. Seattle DPD CAMs

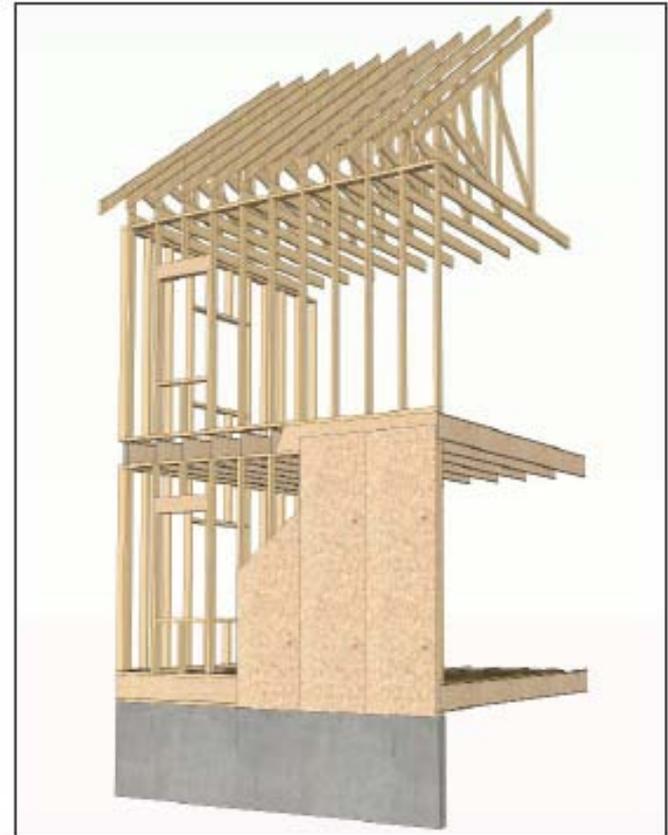


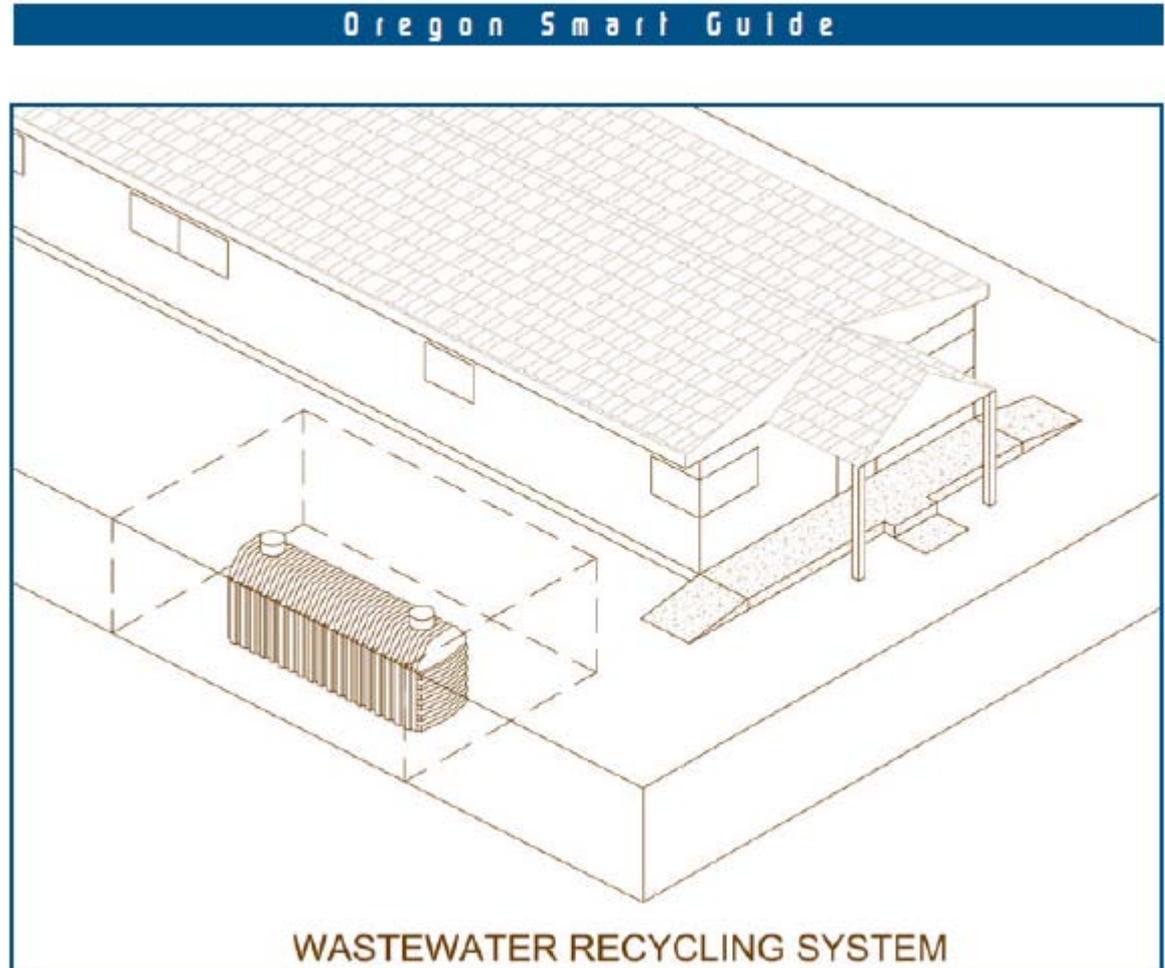
Fig. 1: Advanced framing strategies include using a 24-inch grid for spacing and stacking structural members vertically.



Example Resources + Tools

Print Materials

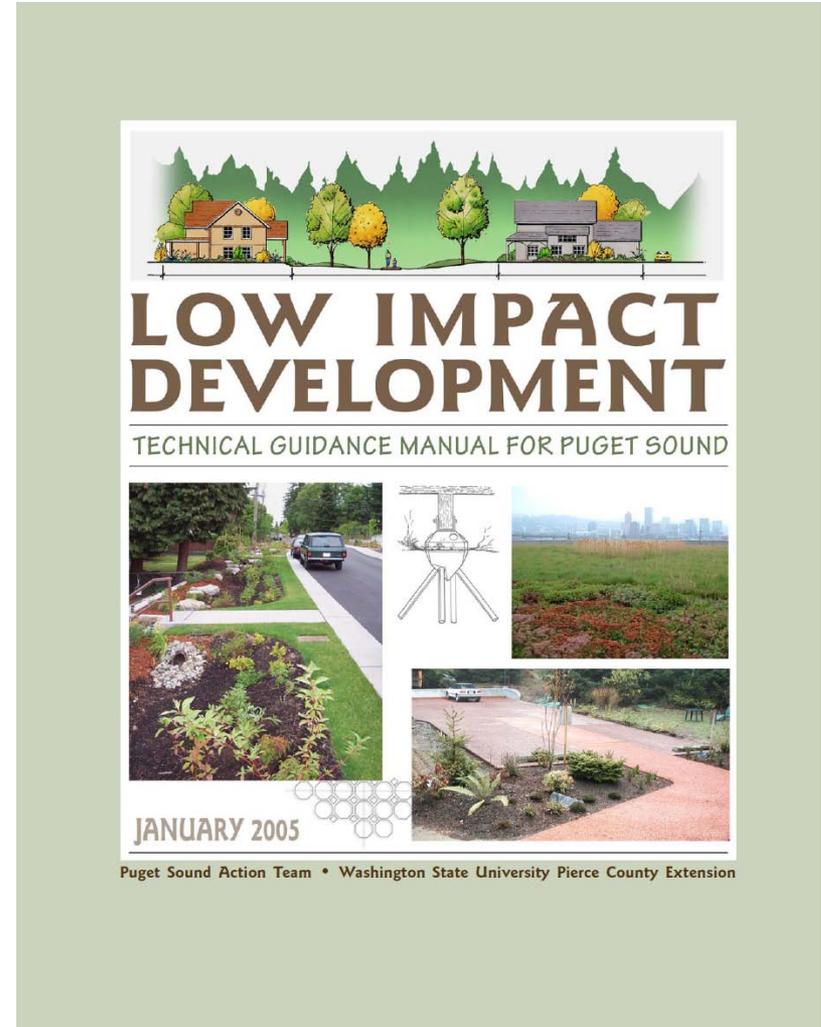
e.g. Portland Smart Guides



Example Resources + Tools

Print Materials

e.g. Technical Documents



Group Discussion

What types of information is most needed?

- Technical design/building knowledge around green building topics (i.e. rainwater harvesting, alternative energy systems, cottage housing). If so, which ones?
- Guidance on how to navigate code requirements
- Access to information sharing between peers and code officials
- Examples of successful projects
- Other

What method of delivery is most useful?

- Online database/listserve/blog
- Print materials
- Training series/tours of green projects
- Video/advertisements
- Other



Report – Prioritize – Next Steps

