

14th Annual Building, Remodeling & Energy Expo Demonstration Schedule

Area 1		Area 2	
Saturday, March 12		Saturday, March 12	
9:15-10:15 a.m.	To Build or Not to Build: The 400 sf Rule in Clallam County	9:30-10:30 a.m.	Spin Your Meter Backwards: Solar Electricity for Your Home and Business
10:30-11:30 a.m.	Greening Your Existing Home: What Does and Does Not Work	10:45-11:45 a.m.	All About Heat Pumps
12:15-1:15 p.m.	Building with Metal Panels and Metal Roofing Materials	12:00-1:00 p.m.	Build an ENERGY STAR® Home: Achieve a Lifetime of Savings
1:30-2:30 p.m.	How to Select a Builder	1:15-2:15 p.m.	Power Up Your Remodel
2:45-3:45 p.m.	Easy Landscaping Ideas	2:30-3:30 p.m.	Generating Energy from the Oceans: Opportunities, Challenges and the Path Forward
Area 1		Area 2	
Sunday, March 13		Sunday, March 13	
10:15-11:15 a.m.	Spin Your Meter Backwards: Solar Electricity for Your Home and Business	10:30-12:30 a.m.	Septics 101
12:15-1:15 p.m.	DIY Concrete Pavers: Easier Than It Sounds	12:45-1:45 p.m.	The Future of Home Heating and our Energy
1:30-2:30 p.m.	Northwest Vegetable Gardens	2:00-3:00 p.m.	Passive House
2:45-3:45 p.m.	Natural and Sustainable Landscaping	3:15-4:00 p.m.	Around Again: A New Purpose

Schedule of Demos and Workshops

SATURDAY, MARCH 12 DEMO AREAS 1 & 2

9:15-10:15 a.m. DEMO AREA #1

**Title: To Build or Not to Build:
The 400-Square-Foot Rule in Clallam County**

What does it mean to have a 400-square-foot "exempt" building in Clallam County? There is a countywide ordinance whereby homeowners can construct a barn or garage or similar uninhabited structure less than 400 square feet in size without building permits. This presentation will show you what the county allows and how to plan the project from a zoning and code perspective to the completed building. It will cover topics such as accessing the county website to determine critical areas and setbacks, a brief code overview addressing the structural needs and different construction techniques. **DEMO LEADERS:** Donella Clark, Senior planner at Clallam County, who holds a master's degree in landscape architecture, will walk you through the planning and zoning concerns while Annie O'Rourke, of Drafting Solutions, will use her code background as a plans examiner to help with the complexities of the building code, followed by Kevin Russell of Clawson Construction who will shed light on the necessary construction practices.

9:30-10:30 a.m. DEMO AREA #2

**Title: Spin Your Meter Backwards:
Solar Electricity for Your Home and Business**

Grid-tied PV (photovoltaic solar electricity) is appropriate for any home or business connected to the utility grid with good solar exposure. There never has been a better time to make your own clean electricity from the sun due to price decreases in solar equipment, federal tax credits, state production incentives and local financing options. The presentation will cover the basics of

site assessment, equipment choices, system cost and performance estimates using projects here on the Olympic Peninsula to illustrate. **DEMO LEADER:** Andy Cochrane founded Power Trip Energy Corp. in 2002, which has installed more than 200 grid-tied PV projects on the Olympic Peninsula.

10:30-11:30 a.m. DEMO AREA #1

**Title: Greening Your Existing Home:
What Does and Does Not Work**

This presentation will take a look at what is commonly considered 'green' and what is not. This includes avoiding the pitfalls of 'Green Washing' and false claims. Learn what the key elements are to making a green home for your family.

DEMO LEADER: Dan Wildenhaus is a senior building scientist for the Northwest ENERGY STAR® Homes program, delivering training and providing one-on-one technical support for program partners. He has years of experience working directly for a contractor, performing energy audits, weatherization repairs, consulting and analysis for private clients in both new construction and the existing home market. Wildenhaus also holds the position of technical standards chair for Home Performance Washington.

10:45-11:45 a.m. DEMO AREA #2

**Title: Power Up Your Remodel
with PUD Rebates and Incentives**

Wouldn't it be great if you could multiply your weatherization project dollars with public funds? Well, guess what? You can! This presentation will tell you all about weatherization and energy efficiency rebates, incentives and project benefits available to Clallam County PUD customer-homeowners as well as customers building new homes. If you're ready to lower your electric bill while increasing the comfort of your home, then this is the workshop

for you. **DEMO LEADER:** Mattias Jarvegren, Clallam County PUD Utility Services Advisor II, is the lead for Clallam PUD's residential, commercial and industrial energy-saving efforts and has been involved with more than 1,100 residential and 90 commercial energy conservation projects in Clallam County, saving enough energy in the process to power 500 homes for a full year.

12:15-1:15 p.m. DEMO AREA #1 Title: Building with Metal Panels and Metal Roofing Materials

Get information about using metal panels and roofing materials for your next new construction or remodeling project. Metal Sales Manufacturing products feature recycled content materials, cool colors and ENERGY STAR® rated products. Learn about gauge, paint and warranty information available for metal panels and standing seam roofing material. Then learn about DECRA Roofing Systems, which is the original and leading stone-coated steel roofing system with more than 50 years of practical experience, technology and design that has continued to change the way metal roofing is viewed in the marketplace since 1957. The DECRA Roof presentation will explore the advantages and benefits of a stone-coated steel roofing system. This lightweight product offers exceptional curb appeal and is available in six profiles and a variety of colors. **DEMO LEADERS:** Michael Dolan is the territory sales manager for Metal Sales Manufacturing and has numerous years of experience in the residential remodeling and retail/wholesale building material sales. Bob Blasich is the Northwest regional manager for DECRA Roofing Systems, Inc. and has more than 20 years experience working with DECRA roofing products. He originally is from Australia where he trained in the architectural design and construction field prior to moving to the United States and settling in the Northwest.

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Noon-1 p.m.: DEMO AREA #2
Title: Build an ENERGY STAR® Home:
Achieve a Lifetime of Savings

What kind of home do you deserve? Come find out what makes an ENERGY STAR® Home unique! Learn how energy-efficient construction can give you a home with increased comfort, energy savings, a quieter living environment, reduced maintenance needs and potentially better indoor air quality. **DEMO LEADER:** Dan Wildenhaus is a senior building scientist for the Northwest Energy Star® Homes program, delivering training and providing one-on-one technical support for program partners. He has years of experience working directly for a contractor, performing energy audits, weatherization repairs, consulting and analysis for private clients in both new construction and the existing home market. Wildenhaus also holds the position of technical standards chair for Home Performance Washington.

1:15-2:15 p.m.: DEMO AREA #2
Title: All About Heat Pumps

Though widely acknowledged as the most efficient heating system for Olympic Peninsula homes, heat pumps remain a major investment. But did you know that most heat pump installations leak 10 percent to 20 percent of their heat into attics and crawlspaces, counteracting their efficiencies? After this presentation, you'll know why heat pumps can be so efficient and what you can do to ensure you get the most bang for your heat pump buck. The focus will be on industry best practice Performance Tested Comfort System heat pump installation standards developed by Northwest utilities. **DEMO LEADER:** Mattias Jarvegren, Clallam County PUD Utility Services Advisor II, is the lead for Clallam PUD's residential, commercial and industrial energy-saving efforts and also is a building performance specialist with the Northwest Energy Star® Homes program.

1:30-2:30 p.m.: DEMO AREA #1
Title: How to Select a Builder

We all look forward to the day when we can build that dream home we've been thinking about for so many years. We have the home site, somewhat of an idea of the floor plan and understand what our budget is, so now is the time to think about how you will choose your builder. It's the most important first decision you will make about one of the largest expenditures of your life. Join Nell Clausen of Estes Builders, where she will guide you through 13 very important questions to ask your prospective builder, with the goal of comparing those answers so in the end, you can make an informed decision. **DEMO LEADER:** Nell Clausen is a custom home sales representative for Estes Builders

2:30-3:30 p.m.: DEMO AREA #2
Title: Generating Energy from the Oceans:
Opportunities, Challenges and the Path Forward

Learn about the potential renewable energy available from oceans and estuaries, the types of devices that currently exist or are in development, the state of knowledge with respect to potential environmental impacts and the challenges associated with permitting, construction and operation. Given Clallam County's strategic location along the Strait of Juan de Fuca, there is a potential for a variety of green jobs and technology development if significant wave and tidal energy generation is realized. **DEMO LEADER:** Jeffrey Ward is a senior research scientist at the Marine Sciences Laboratory in Sequim and has lived and worked in the community for almost 25 years. He manages the North Olympic Peninsula NASA Solutions Network for the North Olympic Peninsula Resource, Conservation and Development Council and is the project manager for a large multi-year Department of Energy project that is assessing the

potential ecological effects of wave and tidal development.

2:45-3:45 pm: DEMO AREA #1
Title: Easy Landscaping Ideas

Add color and beauty to your garden by creating one small area at a time. Hume shows you how to create a magnificent landscape setting using the right plant for the right spot. You can increase the value of your home and create your own outdoor living space at the same time. **DEMO LEADER:** Ed Hume is celebrating his 42nd year as a gardening personality. His weekly television show is the longest continuous-running gardening television show in North America and possibly in the world. He also has a weekly radio show and has written for various local, regional and national publications. Hume also is a well-known International speaker. "Gardening in America" can be seen at KONG TV in Seattle, channels 6/16 on Saturdays at 1:30 p.m.

SUNDAY, MARCH 13,
DEMO AREAS 1 & 2

10:15-11:45 a.m. DEMO AREA #1
Title: Spin Your Meter Backwards:
Solar Electricity for Your Home and Business

Grid-tied PV (photovoltaic solar electricity) is appropriate for any home or business connected to the utility grid with good solar exposure. There never has been a better time to make your own clean electricity from the sun due to price decreases in solar equipment, federal tax credits, state production incentives and local financing options. The presentation will cover the basics of site assessment, equipment choices, system cost and performance estimates using projects here on the Olympic Peninsula to illustrate. **DEMO LEADER:** Andy Cochrane founded Power Trip Energy Corp. in 2002, which has installed more than 200 grid-tied PV projects on the Olympic Peninsula.

10:30 a.m.-12:30 p.m. DEMO AREA #2
Title: Septics 101.

Attend this popular two-hour homeowners' overview on the what, why and how of septic systems and maintenance. This class is brought to you by the Clallam County septic personnel, Sue Waldrip and Janine Reed, and features a panel of local design, install and pump professionals. The first hour covers the basics of how septic systems work and the second hour covers how to maintain your septic system. The experts' panel will help present the maintenance portion of the class and will be available to answer individual questions before, during and after the class. **DEMO LEADERS:** Janine Reed has worked for the county since 1999 in the onsite program for Environmental Health. Sue Waldrip worked for Environmental Health from 1983-1990 and left to raise a family. She returned to work in the onsite program in 2006. Experts' panel member James Paulsen is from Olympic Sewer and Drain and volunteers his time to help with the class.

12:15-1:45 p.m. DEMO AREA #1
Title: DIY Concrete Pavers, Easier Than It Sounds

During this demo, Jack Marshall will discuss and demonstrate how simple it is to install concrete pavers. In addition, he will show how to build concrete block retaining walls, using various sizes and styles of block. Discover tips and tricks to help you transform any outdoor area into a beautiful, livable space. Come prepared with "Do-It-Yourself" questions that pertain to your particular situation. Marshall has worked on numerous paver projects and can help you identify solutions for all of your specific problems. **DEMO LEADER:** Jack Marshall, a landscape designer with Blake Tile and Stone for five years.

12:45-1:45 p.m. DEMO AREA #2
Title: The Future of Home Heating
and Our Energy Independence

In the past, a home's heating system was considered a necessary evil, a clunky and often noisy network of pipes and wall units which sat obsolete for six months of the year and then only earned its money in the dark winter months when the temperature outside dropped. Come and visit with Dustin Halverson and Jeanné Sparks while they discuss the new up and coming technology as we work to create our own energy independence. **DEMO LEADERS:** Jeanné Sparks and Dustin Halverson of All Weather Heating and Cooling Inc.

1:30-2:30 p.m. DEMO AREA #1
Title: Northwest Vegetable Gardens

Solving Vegetable Problems Before They Happen: Veggies going to seed too quickly? Plants not growing properly? Seeds not germinating? Hume helps you solve these and other problems in the vegetable garden. He says many of today's problems can be corrected before or at planting time. And he'll show you ways of correcting them naturally. **DEMO LEADER:** Ed Hume is celebrating his 42nd year as a gardening personality. His weekly television show is the longest continuous-running gardening television show in North America and possibly in the world. He also has a weekly radio show and has written for various local, regional and national publications. Hume also is a well-known International speaker. "Gardening in America" can be seen at KONG TV in Seattle, channels 6/16 on Saturdays at 1:30 p.m.

2-3 p.m. DEMO AREA #2
Title: Passive House: Can a Home Really Be Heated
With Just a Hair Dryer?

Come to this informative demo and learn about 'passive house' standards and methods used to create an ultra-energy efficient house. 'Passive house' dwellings can achieve an energy savings of as much as 90 percent compared to conventional housing. Topics will include designing for your local climate, highly insulated walls, ceilings and windows, airtight construction and heat recovery ventilation systems. **DEMO LEADER:** Don Schuba is a local architectural designer who has received his 'passive house' certification.

2:45-3:45 p.m. DEMO AREA #1
Title: Natural and Sustainable Landscaping

This presentation will focus on permaculture-based landscape design principles and concepts that produce multiple benefits for people and the environment, including food production, microclimate modification, beauty, stormwater management and wildlife habitat. **DEMO LEADER:** Joe Holtrop is Clallam Conservation District's manager. He holds bachelor's and master's degrees in landscape architecture, as well as a master's degree in adult education. He has been a certified permaculture consultant since 1987.

3:15-4 p.m. DEMO AREA #2
Title: Around Again: A New Purpose

Join Gavin Wuttken, co-founder of the nonprofit store Around Again, as he walks through a presentation of the many exciting projects which can be created from items that may have otherwise found their way to the landfills. The store offers pick-up and drop-off services for items as well as some recycling services and has provided materials for the re-structure re-design demonstration. In the outdoor exhibit spaces, you will find a completed structure built of repurposed construction waste and salvaged materials. **DEMO LEADER:** Gavin Wuttken, Around Again.