

Green Building: JOBS OF THE FUTURE

Transcript

VIDEO Montage MUSIC UP	<i>Montage (time lapse and DVE) – cars in traffic, smoke stacks, earth from space, shots of downtown Seattle, hustle and bustle...</i>
GRAPHIC	<i>Terraform Films presents A Von Piglet Production</i>
GRAPHIC	<i>“Green Building: Jobs of the Future”</i>
Rhys Roth	The problem of climate change really boils down to the burning of fossil fuels which is oil, coal, natural gas. And buildings, when you trace it back are responsible, ultimately, for about half of the fossil fuel and energy that’s burned in the country.
TITLE	Buildings Use ½ OF ALL FOSSIL FUELS
Yancy Wright	Obviously, as our population continues to increase we’re going to need to continue building buildings. But the real challenge there is how do we do that without affecting our climate
TITLE	How do we Build GREEN BUILDINGS?
Rhys Roth	So green building is all about looking at how we design our buildings and operate our buildings. And moving towards carbon neutral, towards energy efficiency, renewable energy, and getting us towards climate solutions.
GRAPHIC	<i>Graphic animation representation of plants growing with words “Climate Solutions = Opportunity”</i>
Jay Manning	There is nothing but opportunity in the transformation of our economy from one that’s based on petroleum to one that’s based on renewables and cleaner forms of technology.
Jay Manning	There is all kinds of opportunities for folks who are in the trades.
GRAPHIC	<i>Graphic animation representation of plants growing with words “Green Building = Jobs</i>
Jay Manning	Whether you’re an engineer or a carpenter or a plumber, there is nothing but opportunity here. People are going to have to install solar panels on the top of homes. People are going to have to weatherize and make businesses and homes more efficient.
Jay Manning	Those jobs, they exist now and there are going to be lots more of them over the next 20 years.
GRAPHIC	<i>Graphic animation representation of plants growing with words “Green Building = Jobs = Climate Solutions”</i>
Jay Manning	Jobs that you can feel excited about. I have a good job, good pay and I’m doing the right thing by the planet it doesn’t get much better than that.
VIDEO Montage MUSIC UP	<i>Montage (time lapse and DVE) – LEED Buildings, Building sites, concrete pour, students in classroom, architects working around table, residential home, solar panels, wind turbines, etc</i>

Kathleen O'Brien	It's a unifying concept. It's not partisan. There are conservatives and liberals who love green building because it makes sense economically, it makes sense socially, it makes sense environmentally.
Rhys Roth	Now we're seeing business people coming together with environmentalists and labor.
Kathleen O'Brien	In 1983, we called it resource-efficient building or energy-efficient building. Slowly but surely, the word green crept in. We started at the bottom end. We started looking at construction waste.
Yancy Wright	We can generate anywhere from 30 to 40,000 tons a year in construction waste. What is it that we can do to try to help make that better?
GRAPHIC	Graphic animation representation of plants growing with words REDUCE REUSE RECYCLE
Yancy Wright	A closed loop recycling process. Especially if you can keep it local. Our local recycling facility created this piece of machinery that now grinds up the drywall that comes out of our, our buildings, sifts out the paper, sends this perfectly good gypsum product now to Ashgrove Cement. Now we're getting concrete out to our job sites that has our own recycled gypsum in it.
Yancy Wright	Both of these projects are doing extremely well as it comes to waste recycling. Both right now are at just above 91%, the industry average is just over 40%. So we're doing quite well.
Yancy Wright	By recognizing ways in which what we do every day can be changed, the more we put the green lenses on, the quicker we can start to change and evolve.
Ash Awad	Whenever we save a kilowatt hour, we are saving CO2, we are saving the environment. If you think about reducing energy in a building, you have to imagine reducing the amount of energy a power plant is producing. Sometimes that's about making simple operational changes. Sometimes it's about actually making major retrofits.
Ash Awad	We love our trades people. And you could be part of our plumbing teams, or electrical teams. you can be a pipe fitter, a sheet metal worker all working on making buildings more energy efficient all the way to putting in solar panels and thermal solar systems. So our trades people are really important to us and a keen part of the green movement, the green collared jobs.
Rhys Roth	Fortunately, there's a lot of training and apprenticeship programs, and community college programs that help folks develop the skill sets that they're going to need to do those jobs, um, in the green economy.
GRAPHIC	Graphic animation representation of plants growing with words Job Training for the 21st Century
BROLL	Towers, building and signage at Satsop/Wired

Kathleen O'Brien	In terms of training, we developed the Sustainable Building Advisor Certificate Program, and it's also now being offered in locations around the country. the Program is aimed at any working professional who has some decision-making power within sustainable building world
Yancy Wright	The most cost saving process for building a green building is simply to integrate those green building concepts early on in schematic design.
Yancy Wright	If you're a student, I think the best thing you can do is become LEED accredited. LEED is really truly the, recognized national metric for measuring green buildings. There's certified silver, gold, and platinum. Two years ago, 18% of our volume were LEED certified projects, last year, it was 53% of our volume, and this year we've jumped up to 91% of our volume..
GRAPHIC	GREEN BUILD ACCREDITATION (LEED, BuiltGreen, Green Globes, Earth Advantage, etc)
Aaron Adelstein	Built Green is a similar program to LEED, in terms of its goals and its approaches. Built Green is a more localized, program, operated by the Master Builders' Association In partnership with King County and Snohomish County.
Aaron Adelstein	part of what Built Green provides is that structure by which, a builder can build a green project without having to learn everything from scratch and, a buyer can understand what the builder has done. It also provides a third party mark of integrity.
Aaron Adelstein	Green building is a growth economy, and if you want to stay in business, you'd better be thinking about green building, or the market will pass you by.
Kathleen O'Brien	There's this whole area of trades jobs and technical jobs. We need young people to get excited about this. And I think they'll get excited if they know that it's innovative. they also don't probably realize that it's some of the best paying work out there.
Maili Jonkman	I'm part of the workforce that actually builds the green buildings. It's the new market. You know? This is where we're going. Our eyes are open and we're not going back.
Cheryl Fambles	WIRED is a federal workforce initiative from the Department of Labor. It's about connecting people to the jobs of the 21 st century. Satsop is the epitome of recycling. It's about taking this old nuclear site and converting it into a place where people learn green.
Bob Guenther	When we look at the opportunity that lies here in this plant site with nearly \$300 million worth of infrastructure and with all of the, possibilities for worker training in the construction phases, it's right here. WIRED covers innovation, it covers energy, covers manufacturing it covers construction
Cheryl Fambles	Satsop is a place where you can use your mind and your hands and you can learn the techniques and the opportunities in the green economy.

Dave Johnson	This is a good time for students or those that are interested in the trades to get involved just based on what we're implementing in our apprenticeship programs. There's a lot of work out there to do. And this generation has both responsibility and the obligation to pick that up. And that provides an awful lot of opportunities.
Holly Hamilton	I love to do things with my hands, and I'm really good at math and I love to look at designs.
Jacob Jennings	I just love being able to say I built that. And being able to say it's energy efficient just helps it even more.
Stacia Jenkins	One of the things I'm just loving about this whole new rebuilding the infrastructure of America because it's making construction jobs and manufacturing jobs cool again.
Lee Nugent	It's important to remember that the construction industry, it can't be outsourced.
Stacia Jenkins	I love when I have a 27 year old come in and he says "I can't imagine anything I'd rather be doing." And he loves his work and I get that all the time in any of the trades. Every one of the building trades are looking for those ways that their industry can become greener.
Lee Nugent	The programs are evolving everyone from the pipe fitters, the electricians, the cement masons, the iron workers. That technology is changing and the trades are changing with it. It's a natural way to evolve.
Stacia Jenkins	We're training people to do pervious concrete installations, which is concrete where the water can run through, and prevent storm water runoff and so we've been certifying cement finishers because more and more cities are requiring that kind of concrete.
Mark Maher	if you like working with your hands and creating and making things, the trades is a great place to go. The money is very, very good. Green jobs, union jobs, green money.
GRAPHIC	GREEN MANUFACTURING=GREEN JOBS
John Vicklund	Manufacturing is no longer dirty, dark, depressing and dangerous. It's clean, it's interesting, it's high tech. You don't use backbreaking labor any more to produce, um, the goods and services that we use to construct our homes.
Dave Johnson	There are some exciting aspects to what we see in the future and what's going to happen. A lot of it is in manufacturing and the opportunities that manufacturing provides for the building trades. there's no reason we couldn't be the leading producer of let's just say, blades for wind turbines. Every manufacturing plant has to be constructed which provides jobs for the building trades. Many of the manufacturing facilities will be built using, you know, green standards.

John Vicklund	I think the future is that as a society we will continue to look for ways to make life healthier and more satisfying for the citizens of our community and the citizens of the world. And in order to do that we need to create products that will serve them well. But at the same time we don't want to destroy the environment that we're living in.
GRAPHIC	PACIFIC NORTHWEST = LEADER IN GREEN BUILDING
Rhys Roth	We want our region, the Pacific Northwest, to be the world leader. To create tens of thousands of jobs in the green building and clean energy sectors so that we can prosper as, at the same time as we help save the world. If you're in high school now, it's an incredible time to be alive. There's going to be a whole range of career opportunities in front of you that are going to allow you to contribute to the greatest challenge we face, which is to create a sustainable economy and a way of life in which we can pass on to future generations a habitable planet. What an incredible endeavor to be involved in.
Maili Jonkman	This is an exciting time. It's like things are changing. It's like people are finally waking up.
Stacia Jenkins	It's exciting to be part of the construction industry at this time. All of a sudden wow, we're it. Let's do it And let's train a whole bunch of other people to do it.
Three Construction Workers	Go green.
Jay Manning	Imagine a world where instead of being blamed or viewed as part of the problem, you're actually viewed as part of the solution. And that's a future worth fighting for.

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Speakers:

Rhys Roth - Climate Solutions

Yancy Wright -Sellen Construction

Jay Manning - Washington State Department of Ecology

Kathleen O'Brien - O'Brien & Company

Ash Awad - Mckinstry Engineering

Aaron Adelstein - Built Green

Maili Jonkman - Laborers Local #252 Leed-AP

Cheryl Fambles – WIRED (Workforce Innovation in Regional Economic Development)

Bob Guenther - IBEW Local #77

Dave Johnson - Washington State Building & Construction Trades Council

Holly Hamilton - High School Student

Jacob Jennings - High school Student

Stacia Jenkins - Western WA Cement Masons and Western WA Plasterers Apprenticeships

Lee Newgent - Seattle/King County Building & Construction Trades Council

Mark Maher - Western WA Cement Masons

John Vicklund - Washington Manufacturing Services

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