



## LOW CARBON BY DESIGN

2015 CONFERENCE  
OCTOBER 1 - 2

VANCOUVER, BC  
HYATT REGENCY



Hosted by:



Canadian Passive  
House Institute West

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# Welcome to NAPHN15!

Following the success of NAPHN14 in Portland, Maine, this year’s event hosted by the Canadian Passive House Institute West is set to be our biggest yet! Over the past twelve months we have seen rapid growth in Passive House throughout North America. Social housing projects, high-rise and apartment buildings are demonstrating the standard can be successfully applied to all building types, and local governments are now recognizing the important role Passive House has to play in achieving climate change targets. The building landscape is changing, for the better.

The action begins on Wednesday, September 30th with pre-conference workshops, and the conference starts Thursday, October 1st with our keynote speaker Diane Urge-Vorsatz (Centre for Climate Change and Sustainable Energy Policy). We have over 50 speakers joining us from around the world, and presentations are colour-coded by advanced Passive House techniques, policy and regulation, and general topics suitable for attendees of all levels of Passive House knowledge. We encourage you to use the conference app on your mobile device to get the most of the event [naphn15.sched.org/mobile](http://naphn15.sched.org/mobile) and you’ll also find schedules and presentation summaries in this program.

Breakfast, lunch and refreshments will be served on Thursday and Friday outside the Georgia and Plaza ball-rooms. The official event dinner, with guest speaker Lloyd Alter, takes place on Thursday night at Bridge’s restaurant, where winners of the NAPHN15 Design Awards will be announced.

Make sure you don’t miss one of our two Passive House projects tours on Saturday Oct. 3rd. Choose from the Pedal Tour in Vancouver led by Mayor Robertson or a bus tour of projects in Whistler. Tickets for the dinner and tours are available via the app or at the registration desk.

Above all, we’d like to thank you for coming! The success of Passive House is down to the dedication of individuals and groups helping to shape the future of energy efficient building in North America and beyond. We wish you an inspiring and fulfilling experience with us!

The NAPHN15 Organizing Committee: Bronwyn Barry, Rob Bernhardt, Christopher Chan, Cillian Collins, Lydia Durfeld, Adam James, Ken Levenson, Leah Thorpe, Katie Shellard and Michael van der Laan.

# Workshops: September 30

UBC Robson Square, Vancouver

9:00am	<b>DesignPH Sketchup Plugin: Introduction &amp; Best Practices</b> 3.5 CORE AIBC LUs	<b>Multi-family and Large Passive House Design</b> 3.5 CORE AIBC LUs	<b>Passive House Window Design &amp; Certification: Understanding Performance for Advanced Practitioners and Window Manufacturers</b> 7 CORE AIBC LUs
1:30pm	<b>PHPP v9 – Updates, New Certification Classes and Primary Energy Renewable (PER) Calculations</b> 3.5 CORE AIBC LUs	<b>Passive House Fundamentals: An Intro for Developers, Policy Makers and Building Officials</b> 3.5 CORE AIBC LUs	
4:30pm	<b>Pre-conference cocktails (Mosaic Bar, Hyatt Regency) Sponsor: Synergist Windows</b>		

# Schedule: Thursday October 1

	Plaza A	Plaza B	Plaza C
7:30am	Expo Opens: Breakfast and registration		
8:30am	Welcome: NAPHN, CanPHI West, City of Vancouver		
9:05am	Keynote: Energy Efficient Buildings - A Key Opportunity To Mitigate Climate Change 0.75 CORE AIBC LUs		
9:55am	Greetings From Darmstadt		
10:15am	Break		
10:30am	Introduction to Passive House Innovation 1 CORE AIBC LUs	Passive House Business Case 1 CORE AIBC LUs	Big Building Developments: Passive House 2.0 1 CORE AIBC LUs
	Good Design Makes an Affordable Passive House School 0.75 CORE AIBC LUs	Panel: Essential Components and Why They're Special 0.75 CORE AIBC LUs	New York City High-Rise Passive House 0.75 CORE AIBC LUs
12:15pm	Lunch		
1:45pm - 2:45pm	Policymakers' Breakout 1, Seymour Room 34th Floor 0.75 CORE AIBC LUs		
1:45pm	EnerPHit: Making the Past our Future 0.75 CORE AIBC LUs	Introductory Project Case Studies: Making it Real 1.75 CORE AIBC LUs	Panel: Passive House Certifiers Roundtable 1 CORE AIBC LUs
2:45pm			Stretching to Passive House: Reconcile today's codes with Passive House 1.75 CORE AIBC LUs
3:30pm	Break		
3:50pm	De-mystifying the New Certification Classes: Project Specific Cause & Effect 0.75 CORE AIBC LUs	Media Panel: Marketing Passive House to the Masses 1.75 CORE AIBC LUs	Supportive Housing in Ottawa 0.75 CORE AIBC LUs
4:40pm	Passive House Institute Priorities for the Future 0.75 CORE AIBC LUs		The PHFA Project: Pumpin' up the PH in the USA! 0.75 CORE AIBC LUs
7:00pm	Dinner (ticket only) with guest speaker Lloyd Alter, Bridges Restaurant		

Advanced

Introductory/General

Plenary

Policy

## Welcome

**Thursday, 8:30am - 9:05am, Plaza A, B and C**  
**Speakers:** Bronwyn Barry **Co-President/Design Director, NAPHN/ One Sky Homes**, Sadhu Johnston **Acting City Manager, City of Vancouver**, Scott Kennedy **Principal, Cornerstone Architecture**

Representatives from the NAPHN, CanPHI West and the City of Vancouver will officially open the conference and welcome all attendees. They'll provide a framework for the evolution of the event and provide perspectives on how best to enjoy and maximize your participation at this year's event.

## Keynote

**Thursday, 9:05am - 9:55am, Plaza A, B and C**  
**Speaker:** Diana Ürge-Vorsatz **Director, Centre for Climate Change and Sustainable Energy Policy**

The catastrophic threat posed by climate change and the urgent need to take unprecedented global action to mitigate its worst effects is clear. What's not been clear is the critical role building efficiency has to play. As policymakers consider new climate change mitigation and adaptation initiatives, it is imperative we understand what is necessary and possible. Diana Urge-Vorsatz is a leading IPCC climate scientist on the forefront of investigating the relationship between building efficiency and climate change mitigation. This presentation will unpack her findings thus far and make a clear case for decisive action in our built environment.

## Greetings from Darmstadt

**Thursday, 9:55am - 10:15am, Plaza A, B and C**  
**Speaker:** Dr. Witta Ebel **Passive House Institute**

Dr. Ebel will welcome delegates to the conference with a greeting directly from Darmstadt. The Institute is preparing for 2016 when they will celebrate their 20th Anniversary plus the 25th Anniversary of the Kranichstein Passive House - the first ever calculated Passive House - which Dr. Ebel shares with her husband, Dr. Wolfgang Feist.

## Introduction to Passive House Innovation

**Thursday, 10:30am - 11:25am, Plaza A**

**Speaker:** Tomás O’Leary **Co-Founder and Managing Director, Passive House Academy**

Just getting started with Passive House? In this introductory explanation, Tomas O’Leary walks you through the basics of the standard; where it came from, what are the leading developments today and where it is headed tomorrow.

## Passive House Business Case

**Thursday, 10:30am - 11:25am, Plaza B**  
**Speakers:** Christy Love **Senior Project Engineer, RDH Building Engineering Ltd.**, Andrew Pape-Salmon **Senior Specialist - Energy, RDH**

A Synergy Sustainability Institute led consortium conducted market research and prepared a “passive house business case”, based on actual costs and predicted and measured performance of two developments on southern Vancouver Island – a 2 family residence in Saanich and a 6-plex spec development in Victoria. The financial business case considered both builder and consumer perspectives, and incorporated costs such as increased taxes and mortgage interest and energy saving benefits.

## Big Building Developments: Passive House 2.0

**Thursday, 10:30am - 11:25am, Plaza C**  
**Speaker:** Dieter Herz **Managing Director, Herz and Lang**

In the past 25 years Passive House has grown up and now we can expect supermarkets, courthouses even prisons to be built to the Passive House standard. Dieter Herz walks you through some of the details and strategies that break through market barriers and make Passive House the logical solution.

## Good Design Makes an Affordable Passive House School

**Thursday, 11:25am - 12:15pm, Plaza A**  
**Speaker:** Mario Bodem **Co-Founder, ING + ARCH**

A public school project in Bavaria goes from 1M over budget and impossible to achieve Passive House - to a Passive House success and 1M under budget. Find out the process that made this transformation possible and Passive House financially successful.



## Panel: Essential Components and Why They’re Special

**Thursday, 11:25am - 12:15pm, Plaza B**

**Speakers:** Bronwyn Barry **Co-President/ Design Director, NAPHN/ One Sky Homes**, Ken Eklund **WSU Energy Program**, Barry Stephens **Development & Technology Director, Zehnder**

Passive House building has driven a rapid evolution in critical building technologies such as windows, heat recovery ventilators and heat pumps. This introductory panel will examine the economics, the performance details and the supply chain issues around making the best products and making them available and affordable.

## New York City High-Rise Passive House

**Thursday, 11:25am - 12:15pm, Plaza C**

**Speaker:** Luke Falk **Assistant Vice President, The Related Companies**

In June 2015 the new Cornell Tech dormitory broke ground in New York City. At a planned 27 stories, it will be the tallest Passive House in the world. Design, planning and construction posed new requirements on a development team working on Passive House for the first time. Hear about the barriers to success and how the team is overcoming them.

## Policymakers’ Breakout 1: Government Policy and Best Practices

**Thursday, 1:45pm - 2:45pm, Seymour Room 34th Floor**

The first of two dialogue sessions will engage participants in a discussion on existing and considered low energy policies and best practices in North America and Europe. Information on demonstrated successes in N. America and Europe will be exchanged to fast-track learning and knowledge transfer between policy makers.

## EnerPHit: Making the Past our Future

**Thursday, 1:45pm - 3:30pm, Plaza A**

**Speakers:** Kevin Brennan, Michael Ingui **Baxt Ingui Architects**

Successfully understanding how to make high-performance retrofits that meet EnerPHit standards is critical to meeting carbon reduction goals and remaking our built environment. Learn details of the standard, and see case studies in the US and Europe. Learn how to make your next retrofit EnerPHit.

## Introductory Project Case Studies: Making it Real

**Thursday, 1:45pm - 3:30pm, Plaza B**

**Speakers:** Lukas Armstrong **B.Des M.Arch, LEED AP, Principal, Cover Architectural Collaborative Inc.** Darren Macri **CEO and Founder, Bleu Nest**, Lucio Picciano **Architect AIBC LEED AP, DLP Architecture inc.**

Gain a comprehensive and diverse rundown on the processes, components and details that make an integrated Passive House building successful. We’ll examine three projects by breaking them down into assembly details, air-sealing strategies and mechanical systems. Learn from these first-time practitioners’ victories and mistakes, get their lessons learned, and gain a better awareness of key priorities as you consider your first Passive House project. Questions from the audience will be encouraged.

## Panel: Passive House Certifiers Roundtable

**Thursday, 1:45pm - 2:40pm, Plaza C**

**Speakers:** Tad Everhart **President, CertiPHlers Cooperative**, Dieter Herz **Managing Director, Herz and Lang**, Tomás O’Leary **Co-Founder and Managing Director, Passive House Academy**, Andrew Peel **Peel Passive House Consulting**

With new building types going Passive and new certification classes being offered, the range of questions and suggested best practices are rapidly growing. Take advantage of a unique gathering of actual project certifiers, hear their recommendations and get your specific questions answered.

## Stretching to Passive House: Reconcile Today’s Codes with Passive House

**Thursday, 2:45pm - 3:30pm, Plaza C**

**Speaker:** Dave Ramslie **Head of Planning and Research, Integral Group**

Passive House offers a clear set of performance targets yet the gap with current energy codes, including stretch codes can prove disorienting. Examine ASHRAE 90.1, MNECB in relation to Passive House and the latest research on harmonizing Passive House and the stretch code of British Columbia. Learn how we can reconcile the targets and make the leap.

## De-mystifying the New Certification Classes: Project Specific Cause & Effect

**Thursday, 3:50pm - 4:40pm, Plaza A**

**Speaker:** Andre Harrmann **Harrmann Consulting**

Walk-through the application of the new Plus and Premium Certification Criteria on an existing Certified Passive House. What are the new opportunities and restrictions? How could it effect the physical design and the final performance? What are likely strategies for success? Find out all this and more as PER gets broken-down using a local project as an example.

## Media Panel: Marketing Passive House to the Masses

**Thursday, 3:50pm - 5:30pm, Plaza B**

**Speakers:** Lloyd Alter **Design Editor, TreeHugger.com**, Simon Cameron **BARE**

In this session Lloyd Alter, who has had his own share of marketing failures and successes, will chat with Simon Cameron of Vancouver’s BARE (“a group of fast moving, idea-generating, results-getting, coffee-swiggling, butt-saving branding and communication craftspeople”) about how to move the PH pitch from logic to emotion.

## Supportive Housing in Ottawa

**Thursday, 3:50pm - 4:40pm, Plaza C**

**Speakers:** Lisa Ker **Executive Director, Ottawa Salus**, Sonia Zouari **Project Architect & Passivhaus Designer, CSV Architects**

Lisa Ker, Executive Director of Ottawa Salus Corporation, will share the story of adopting Passive House for the 42 unit Salus Clementine Housing project as well as the benefits of adopting passive house standards for the organization and the affordable housing sector. Lisa will

also share the engagement strategies Ottawa Salus is putting in place for tenants and staff to support the goals of the project. Sonia Zouari of CSV Architects will present the architectural concept of the project and outline the impact of the Passive House standard on the architectural design.

## Passive House Institute Priorities for the Future

**Thursday, 4:40pm - 5:30pm, Plaza A**

**Speaker:** Dr. Witta Ebel **Passive House Institute**

PHI has been setting the benchmark for best practices in low-energy sustainable design for 25 years. Find out what PHI is looking toward in pushing best practices forward in the coming decade and further.

## The PHFA Project: Pumpin’ up the PH in the USA!

**Thursday, 4:40pm - 5:30pm, Plaza C**

**Speaker:** Timothy McDonald **President, Onion Flats LLC**

In the Spring of 2014 a group of approximately 25 “stakeholders”, composed of affordable housing developers, representatives from the Sustainability, Housing Authority and Mayor’s offices of Philadelphia and Pittsburgh, educators from Temple, Carnegie Mellon and Penn State Universities, as well as Passive House architects, designers and builders gathered to meet in Harrisburg to make a bold proposition to PHFA (Pennsylvania Housing Finance Agency: Initiate a project that would have all affordable housing in Pennsylvania be designed and constructed to a Net-Zero-Energy-Capable standard by 2030. The “tool” proposed to achieve this was Passive House.

## Dinner (ticket only) with guest speaker Lloyd Alter

**Thursday, 7:00pm - 9:00pm, Bridges Restaurant**

**Speaker:** Lloyd Alter **Design Editor, TreeHugger.com**

Join us for dinner, entertainment and awards at Bridges Restaurant on Granville Island. After spending the day inside, enjoy evening views of the Vancouver city skyline, the Coast Mountains and False Creek over a three course meal and what promises to be a humorous presentation from Lloyd Alter.

# Schedule: Friday October 2

	Plaza A	Plaza B	Plaza C
7:30am	Expo Opens: Breakfast and registration		
8:30am	<b>Mechanicals: Heat Pumps, Demand/Response Intelligence and the Grid</b> 0.75 CORE AIBC LUs	<b>Factory-Built Passive House: Affordable Housing for a Remote First Nations Community</b> 0.75 CORE AIBC LUs	<b>The Brussels Example: From Zero to Mandate in 8 Years</b> 0.75 CORE AIBC LUs
	<b>Good Business: Making Passive House Pay</b> 0.75 CORE AIBC LUs	<b>Panel: Passive House Ventilation - New Systems, New Options, New Strategies</b> 0.75 CORE AIBC LUs	<b>Multi Family Passive House Adapted to BC construction Techniques</b> 0.75 CORE AIBC LUs
10:15am	Break		
10:30am - 11:25am	<b>Policymakers’ Breakout 2, Seymour Room 34th Floor</b> 0.75 CORE AIBC LUs		
10:30am	<b>Window Performance: Meeting the Demands of your Climate</b> 0.75 CORE AIBC LUs	<b>Using Data for Better Design</b> 0.75 CORE AIBC LUs	<b>Advanced Case Studies from the Central West Coast and South West</b> 1.75 CORE AIBC LUs
	<b>The Yin and Yang of Enclosure Detailing: Techniques and Aesthetics</b> 0.75 CORE AIBC LUs	<b>Passive House in the Baltics: Cold Climate, Sports &amp; Swimming Pools</b> 0.75 CORE AIBC LUs	
12:15pm	Lunch		
1:45pm	<b>Towards the All-Renewable Energy Grid: PER, Plus and Premium Passive House</b> 1.75 CORE AIBC LUs	<b>Panel: Fort St. John Passive House - Municipalities Leading the Way to a Low-Energy Building Future</b> 0.75 CORE AIBC LUs	<b>Passive House In China Today</b> 0.75 CORE AIBC LUs
		<b>Panel: From Passivist to Activist - Passive House and Grassroots Political Action</b> 0.75 CORE AIBC LUs	<b>Passive House and Europe in 2020</b> 0.75 CORE AIBC LUs
3:30pm	Break		
3:50pm	<b>Closing Plenary</b>		
6:00pm	<b>NAPHN Evening Social (Venue TBA at Conference)</b>		
<div><div></div> Advanced</div> <div><div></div> Introductory/General</div> <div><div></div> Plenary</div> <div><div></div> Policy</div>			

## Mechanicals: Heat Pumps, Demand/Response Intelligence and the Grid

Friday, 8:30am - 9:20am, Plaza A

Speakers: Ken Eklund [WSU Energy Program](#)

Ken Eklund has organized four projects that test the capabilities and applications of CO2 heat pumps for water heating, demand-response service, and combined space and water heating. The projects combine lab and field testing, and most of the field tests are in occupied homes. He will share his three year adventure in researching the future of space and water heating including results and technology application.

## Factory-Built Passive House: Affordable Housing for a Remote First Nations Community

Friday, 8:30am - 9:20am, Plaza B

Speaker: Monte Paulsen [Red Door Energy Design](#)

The Bella Bella Staff Housing Project was constructed in a Vancouver-area factory, barged 700 kilometers north into the Great Bear Rainforest, and assembled in the ancient Heiltsuk Nation village of Bella Bella. Built for Vancouver Coastal Health by Britco Industries, this six-unit rowhouse terrace is Canada’s first public-tender Passive House, Canada’s first fully modular Passive House, the first Passive House in a First Nations community, and, completed less than nine months after contract, quite possibly the fastest Passive House on Earth.

## The Brussels Example: From Zero to Mandate in 8 Years

Friday, 8:30am - 9:20am, Plaza C

Speaker: Grégoire Clerfayt [Policy Advisor](#)

Since January 1st 2015, all new buildings and “deep renovations” in Brussels comply with the PH standard. But the enormous growth of PH construction was not just a straightforward consequence of the governmental decision: a number of incentive schemes and capacity building programs were initiated to promote the “energy transition” since 2007. The new law itself provisioned for a 3 year period of “soft landing”, allowing the gradual accumulation of best practices and experience. As a result,

there are already more than 1,000,000 m2 of passive buildings built (data as of 2014) visited by numerous delegations, and the number is growing with every single day. How is it possible ? A success story - European Energy Award 2012 – “Living” Category.

## Good Business: Making Passive House Pay

Friday, 9:20am - 10:15am, Plaza A

Speaker: Mark Bernhardt [President, Bernhardt Contracting](#)

This presentation will include an analysis of the costs associated with building certified Passive Houses on the West Coast. Data from two completed certified projects will be presented as well as other planned certified passive houses to illustrate the differences and challenges of building Passive House. Costly lessons learned and estimation techniques for passive house will also be discussed.

## Panel: Passive House Ventilation - New Systems, New Options, New Strategies

Friday, 9:20am - 10:15am, Plaza B

Speakers: Allen Gilliland [One Sky Homes](#), Ken Levenson [Co-President, CPHD, NAPHN/ Four Seven Five](#), Barry Stephens [Development & Technology Director, Zehnder](#)

As Passive House project types multiply and grow, the ventilation solutions are expanding too. Hear the latest systems thinking and technical developments in this ventilation roundtable discussion.

## Multi Family Passive House Adapted to BC construction Techniques

Friday, 9:20am - 10:15am, Plaza C

Speaker: Scott Kennedy [Principal, Cornerstone Architecture](#)

Designing three multi-family Passive House projects, with one under construction, familiar British Columbia multi-family wood construction techniques had to be adapted to Passive House principles. The presentation will include a discussion of the motivation for choosing the Passive House standard as well as compromises made to suit the available budget. The projects are being constructed by



conventionally trained multi-family wood construction crews with a specialist crew overseeing and executing the air tightness details. Thermal bridging and air tightness details are the greatest challenge for the design team. See the semi-central ventilation approach developed. See the modeling, the details and the components.

## Policymakers’ Breakout 2: Market Barriers and How to Overcome Them

**Friday, 10:30am - 11:25am, Seymour Room 34th Floor**

**Speaker:** Sonia Zouari [Project Architect & Passivhaus Designer, CSV Architects](#)

The second of two dialogue sessions will engage participants in the possible pathways to transforming the market towards high performance envelope standards and low energy construction. Information on demonstrated successes in N. America and Europe will be exchanged to fast-track learning and knowledge transfer between policy makers.

## Window Performance: Meeting the Demands of your Climate

**Friday, 10:30am - 11:25am, Plaza A**

**Speakers:** Jeff Casagrande [Synergist Window Company & Casagrande Woodworks](#), Andrew Peel [Peel Passive House Consulting](#)

High performance windows are a critical component of Passive House buildings, yet there is significant confusion amongst PH professionals regarding location-specific requirements. This seminar will explore the key Passive House window performance criteria and the factors that affect how they are achieved, both in building and window design.

## Using Data for Better Design

**Friday, 10:30am - 11:25am, Plaza B**

**Speaker:** Jonathan Hines [Director, Architype and ArchiHaus](#)

Award winning Passive House architect Jonathan Hines has collected extensive performance data on a series of school projects in the UK. Each set of data informed the design of the next project, providing a continuity of aesthetic and energy performance we can all learn from.

## Advanced Case Studies from the Central West Coast and South West

**Friday, 10:30am - 12:15pm, Plaza C**

**Speakers:** Allen Gilliland [One Sky Homes](#), Katy Hollbacher [Founder, Beyond Efficiency](#), Graham Irwin [AIA, CPHC, LEED AP, Principal, Essential Habitat](#), Jonah Stanford [Principal Designer, NEEDBASED](#)

Four advanced practitioners will share insights on their evolving Passive House experiences. Each will highlight specific details, techniques and practices developed from hard-won experience over multiple projects. Jonah and Graham will dig into the challenges of PHPP shading modeling, implementation strategies, and passive cooling. Katy and Allen will offer advice on the dangers of overly complex mechanical systems. All will focus on their particular areas of expertise and the challenges particular to their climate region/s while highlighting the universal tenets of Passive House design that apply to climates across the continent.

## The Yin and Yang of Enclosure Detailing: Techniques and Aesthetics

**Friday, 11:25am - 12:15pm, Plaza A**

**Speakers:** Dylan Lamar [Architect, CPHC, Green Hammer](#), Tessa Smith [Principal and Lead Designer, The Artisans Group](#)

A review of Passive House envelope “typologies” with lessons learned and best-practice recommendations with regard to constructability, thermal efficiency and aesthetic design implications. We’ll look at critical junctions of ground/wall, wall/window, and wall/roof, the “tall forehead” problem, Inside/Outside connection, and Cantilevers. Details from Green Hammer, Artisans Group, Kaplan & Thompson Architecture, Julie Torres-Moskovitz, and Holst Architecture. Cost efficiency studies for the Orchards Phase II multifamily (60-unit) building will also be reviewed.

## Passive House in the Baltics: Cold Climate, Sports & Swimming Pools

**Friday, 11:25am - 12:15pm, Plaza B**

**Speaker:** Ervins Krauklis [Architect](#)

The task was to make ecological homes with difficult program requirements such as an indoor swimming pool and an indoor sports room - both in Latvia. The answer to the many, and sometimes seemingly contradictory objectives, was Passive House. Find out the strategies, processes and details that made Passive House the logical choice and earned the Latvian Sustainability Award in 2014.

## Towards the All-Renewable Energy Grid: PER, Plus and Premium Passive House

**Friday, 1:45pm - 3:30pm, Plaza A**

**Speakers:** Graham Irwin [AIA, CPHC, LEED AP, Principal, Essential Habitat](#), Adrian Muskatewitz [Component Certifier and Consultant, Passive House Institute](#), Tomás O’Leary [Co-Founder and Managing Director, Passive House Academy](#)

As global energy supply sources move away from fossil fuels, our grid structure and loads must necessarily shift. Learn why this is necessary and how PHI has recently shifted its calculation of Primary Energy by introducing two additional standards to encourage and accommodate the complexities of all-renewable energy supply.

## Panel: Fort St. John Passive House - Municipalities Leading the Way to a Low-Energy Building Future

**Friday, 1:45pm - 2:40pm, Plaza B**

**Speakers:** Lori Ackerman [Mayor, City of Fort St. John](#), Dianne Hunter [City Manager, City of Fort St. John](#), Marty Paradine [Chief Administrative Officer, Town of Valleyview](#)

What can happen when a municipality becomes the owner and builder of an innovative low-energy project? Marken Design + Consulting joined forces with the City of Fort St. John in northern BC to build a Passive House demonstration project. Instead of writing green building guidelines and bylaws, the City of Fort St. John chose the more difficult path of implementing an actual project. The Mayor, City Manager and Energy Manager will share the trials and tribulations of realizing their vision and their measures of success for the future as they promote the house to the community as a “living lab” for extreme low-energy construction.

## Passive House In China Today

**Friday, 1:45pm - 2:40pm, Plaza C**

**Speaker:** Ling Guo [China Observer and Coordinator, Passive House Institute](#)

The adoption of Passive House in China is happening and like most things China adopts the effects will reverberate around the world. Find out the latest information on the projects, the components, the experiences of Passive House as it accelerates across China.

## Panel: From Passivist to Activist - Passive House and Grassroots Political Action

**Friday, 2:40pm - 3:30pm, Plaza B**

**Speakers:** Michael Hoexter [Climate and Energy Policy Analyst, Terraverde - Energizing Green Markets](#), Garth Hood [Thoughtful Dwellings](#), Buck Moorhead [AIA/CPHD, Buck Moorhead Architect](#)

A three person panel, in discussion with audience, relate experiences of carrying the Passive House message into the broader arena of grassroots environmental activism. Successes, failures and brainstorming for next steps to leverage the potential synergies in the broader activist community.

## Passive House and Europe in 2020

**Friday, 2:40pm - 3:30pm, Plaza C**

**Speaker:** Günter Lang [International Passive House Consultant, LANG Consulting](#)

How the economics, the project experiences and the policies are showing best practices, and converging on the mandate of nearly zero energy building across the European Union in 2020.

## Closing Plenary

**Friday, 3:50pm - 5:10pm, Plaza A, B and C**

Policy Report: Our policy makers will summarize their discussions and share outcomes, goals and future initiatives.

Closing Thanks: Ken Levenson, NAPHN and Rob Bernhardt, CanPHIWest.

# Tours: Saturday October 3

## Pedal House Project Tour: Vancouver

Cycle with the Mayor of Vancouver from downtown, to East Vancouver to Point Grey to celebrate three of the first Passive House projects in Vancouver. This quintessentially Vancouver tour will run rain or shine and includes two and a half hours of biking broken into 30 to 45 min blocks. Mayor Gregor Robertson will speak to the Passive House Standard and the Cities plan for carbon reduction. Lunch will be provided at the midway point and there will be an option to keep the bike for further exploring once the tour has finished.

## Passive House Project Tour: Whistler

Home to the largest ski resort in North America, beautiful mountain vistas and the first registered Passive House in Canada, Whistler has always been on the Passive House enthusiasts tour destination. Whistler has grown into one of the more prominent Passive House hubs in Canada since the construction of the Austria Haus in 2010. This bus tour to Whistler and Pemberton will explore four completed Passive House projects. Tours and presentations at each site will discuss design and construction details. Lunch and transportation provided.

Register online at [naphn15.canphi.ca](http://naphn15.canphi.ca) or at the information desk.

# Exhibitors

