



# 8<sup>th</sup> Annual North American Passive House Conference, Pittsburgh PA



## PHIUS Program Updates



Tim Montague, Director of Development, Passive House Institute US | PHIUS

[tim@passivehouse.us](mailto:tim@passivehouse.us)

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# *Outline*



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- **Development Overview**
- **News and Upgrades to Training Programs**
- **News and Upgrades to Certification Programs**



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# Development Overview

**XXX**



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**•XXX**

(Image Source: xxx)



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# News and Upgrades to Training Programs

# Suite of Professional Training and Certificate Programs



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- Certified Passive House *Consultant*, **CPHC**<sup>®</sup>
  - PHIUS Certified Builder
  - PHIUS+ Certified Rater
- PHIUS+ Certified Passive House Projects
- Window Performance Data Verification Program

# Virtual CPHC Training: more accessible, affordable, meeting high standards



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This past year **152** trainees went through the online/5-day in-class combination CPHC program, through three dedicated Army Corps trainings in 2012 and 2013 at Army Corps Facilities and through the second annual all in-class CPHC training at Yestermorrow intensive with retreat flavor!

Last year we launched the ***CPHC Continuing Education Program***: We record CPHC CEUs for you, 12 needed per year.

***The number of certified CPHCs now is 495, 40 pending!!!!***





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# ***NEW:* Builders Training Rocks!!!**



In the last year **180** trainees went through the Builders Training, all classes sold out!





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# PHIUS+ Certified Rater Training

*Gain* **75+** RESNET raters went through the PHIUS+ training, raters are now located in 21 states!





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# News and Upgrades to Certification Programs

## DOE



## Challenge Home: Taking off!!

**180** projects are currently enrolled in the certification process!!!



Other PHIUS+ Certifications:

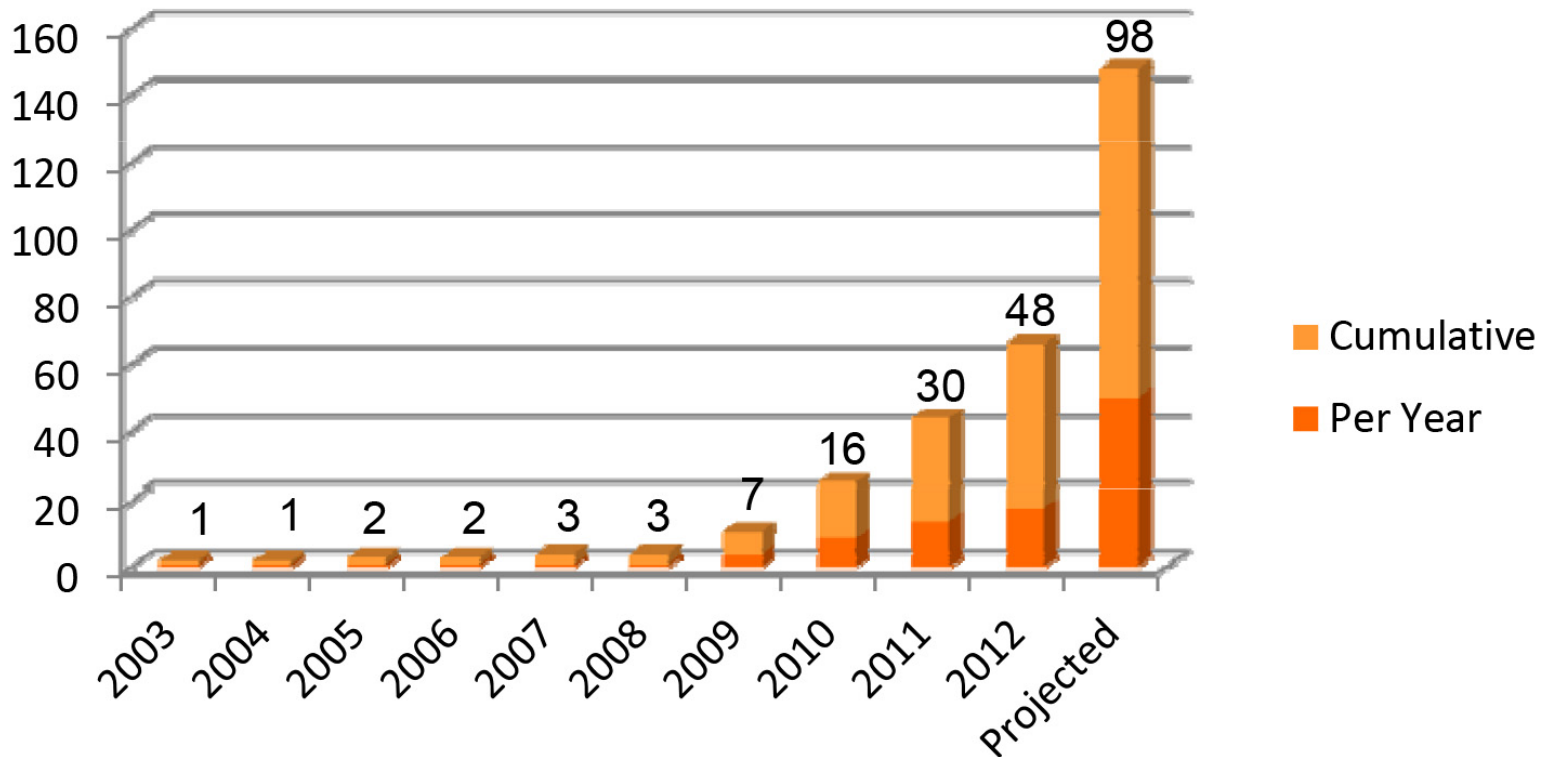
- New Construction Commercial
- Retrofit for Residential and Commercial Projects

# PHIUS Certifications over the past *10 Years in US and Canada*



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## Certified Projects



Projection of projects for the year 2013 from March...

# PHIUS Certifications

## 10 Years in US and Canada

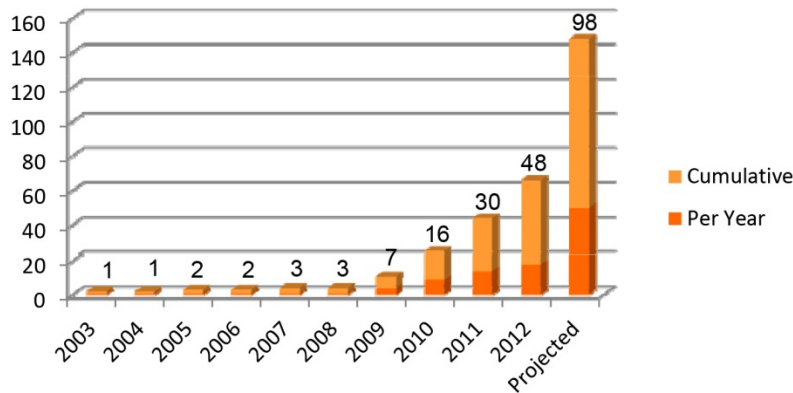


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Lisa: Updated graphic?



Certified Projects



...was exceeded mid year 2013 – far exceeded expectations!



# Launch of Window Verification Program: Climate Specific Performance Guidelines



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## PHIUS – Climate Specific Window Selection Guidelines

ASHRAE/DOE North American Climate Zone	Overall Installed Window U-value - $U_w$ Btu/hr-ft <sup>2</sup> ·°F	Center of Glass U-value - $U_g$ Btu/hr-ft <sup>2</sup> ·°F	SHGC – South	SHGC – North, East, West
8	≤0.11	≤0.10	≥0.50	
7	≤0.12	≤0.11	≥0.50	
6	≤0.13	≤0.12	≥0.50	
5	≤0.14	≤0.13	≥0.50	
4	≤0.15	≤0.14	≥0.50	
Marine North	≤0.16	≤0.15	≥0.50	
Marine South	≤0.22	≤0.20	≤0.50	
3 (west)	≤0.18	≤0.16	≤0.50	
2 (west)	≤0.18	≤0.16	≤0.30	
2 (east)	≤0.20	≤0.18	≤0.30	



Reference: Table Values PHIUS, Climate Map DOE/ASHRAE/NECB Zones by RDH

Product name: VEKA DH93WW		Center-of-glass properties				
ASHRAE/IECC/DOE North American Climate Zone		North, East, West - facing		Cardinal 2154/2001/2154		
Climate specific recommendations:		Whole-window nominal U-value		Ucog-Value		
		W/m2K	BTU/hr.ft2.F	SHGC	W/m2K BTU/hr.ft2.F	
8		1.21	0.21	0.255	0.719 0.127	
7		1.22	0.21	0.255	0.726 0.128	
6		1.22	0.22	0.255	0.735 0.129	
5		1.22	0.22	0.255	0.737 0.130	
4		1.23	0.22	0.255	0.741 0.131	
Marine North		1.23	0.22	0.255	0.745 0.131	
Marine South	<input checked="" type="checkbox"/>	1.23	0.22	0.255	0.750 0.132	
3	<input checked="" type="checkbox"/>	1.23	0.22	0.255	0.747 0.132	
2 West		1.23	0.22	0.255	0.749 0.132	
2 East		1.23	0.22	0.255	0.749 0.132	
VEKA DH93WW vertical slider upper		FRAME		Psi-spacer		
		U-frame		Psi		
		W/m2K	BTU/hr.ft2.F	W/mK	BTU/hr.ft2.F	
	mm in					
	Head	81 3.18	1.50 0.26	0.034	0.020	
	MR upper half	25 0.97	4.52 0.80	0.053	0.030	
	Jamb upper left	105 4.14	1.72 0.30	0.035	0.020	
	Jamb upper right	105 4.14	1.72 0.30	0.035	0.020	
VEKA DH93WW vertical slider lower		FRAME		Psi-spacer		Psi-opaque
		U-frame		Psi		
		W/m2K	BTU/hr.ft2.F	W/mK	BTU/hr.ft2.F	W/mK
	mm in					
	MR lower half	25 0.97	1.16 0.21	0.025	0.015	0.169
	Sill	85 3.36	1.48 0.26	0.035	0.020	BTU/hr.ft2.F
	Jamb lower left	92 3.64	1.55 0.27	0.035	0.020	0.098
	Jamb lower right	92 3.64	1.55 0.27	0.035	0.020	Grade C

For vertical slider the MR is the sill for the upper and head for the lower  
Valid through August 2015



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# The most exciting of all: Your Projects



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# Award Winning Projects US



Hill Residence, CA  
CPHC: Katy Hollbacher  
Architecture: Pauly Designs  
Builder: Carmel Building & Design  
***Fine Homebuilding's  
Home of the year!!!***



Lema Residence, IL  
Architect and CPHC:  
Tom Bassett-Dilley  
Builder: Weiss Building &  
Development  
***USGBC Emerald Award  
DOE Systems Builder Grand Winner***

# Award Winning Projects Canada



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Valley waste Management Office  
Building, Nova Scotia  
CPHC: Natalie Leonard  
Architect: Solterre Design  
Builder: Roscoe Construction



Hawkins House, Nova Scotia  
CPHC: Natalie Leonard  
Architecture: Passive House  
E Design  
Builder: Leonard Construction



# First Production Builder in the US certifies a PHIUS+ Project!



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Valley waste Management Office  
Building, Nova Scotia  
CPHC: Nathan St. Germain, IBACOS  
Architect: KGA Studio Architects  
Builder: Brookfield Homes

***...and many, many more great projects across the continent!***





# Thanks to all PHAUS Sponsors!!

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always around you

