

EuroPHit

**Why retrofit and how to do it right,
even step by step**



Well known examples

EuroPHit

Can it be done?



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Governmental offices - Expost in Bozen (IT)

EuroPHit

Before



After refurbishment 12 kWh/(m²a)



Client: Provincia Autonoma di Bolzano-Alto Adige, IT

Architect: Michael Tribus Architecture, IT

Completion: 2006



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SFH Groove Cottage Hereford (GB)

EuroPHit

Before



After refurbishment 25 kWh/(m²a)



Client: Andrew Simmonds and Lorna Pearcey, GB

Architect: Simmonds.Mills Architects, GB

Completion: 2009



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Programme of the European Union



Baaderstrasse 7, Munich (DE)

EuroPHit

Before



After refurbishment: 25 kWh/(m²a)



Client: Baaderstrasse GmbH&Co.KG, DE

Architect: Peter Fink Architekten GmbH, DE

Completion: 2012



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The project



Reduce consumption!

EuroPHit

how to get there?

High efficiency

EU's 2020 objective:

All new/refurbished buildings as
NZEBs (Nearly Zero Energy Buildings)

Low efficiency

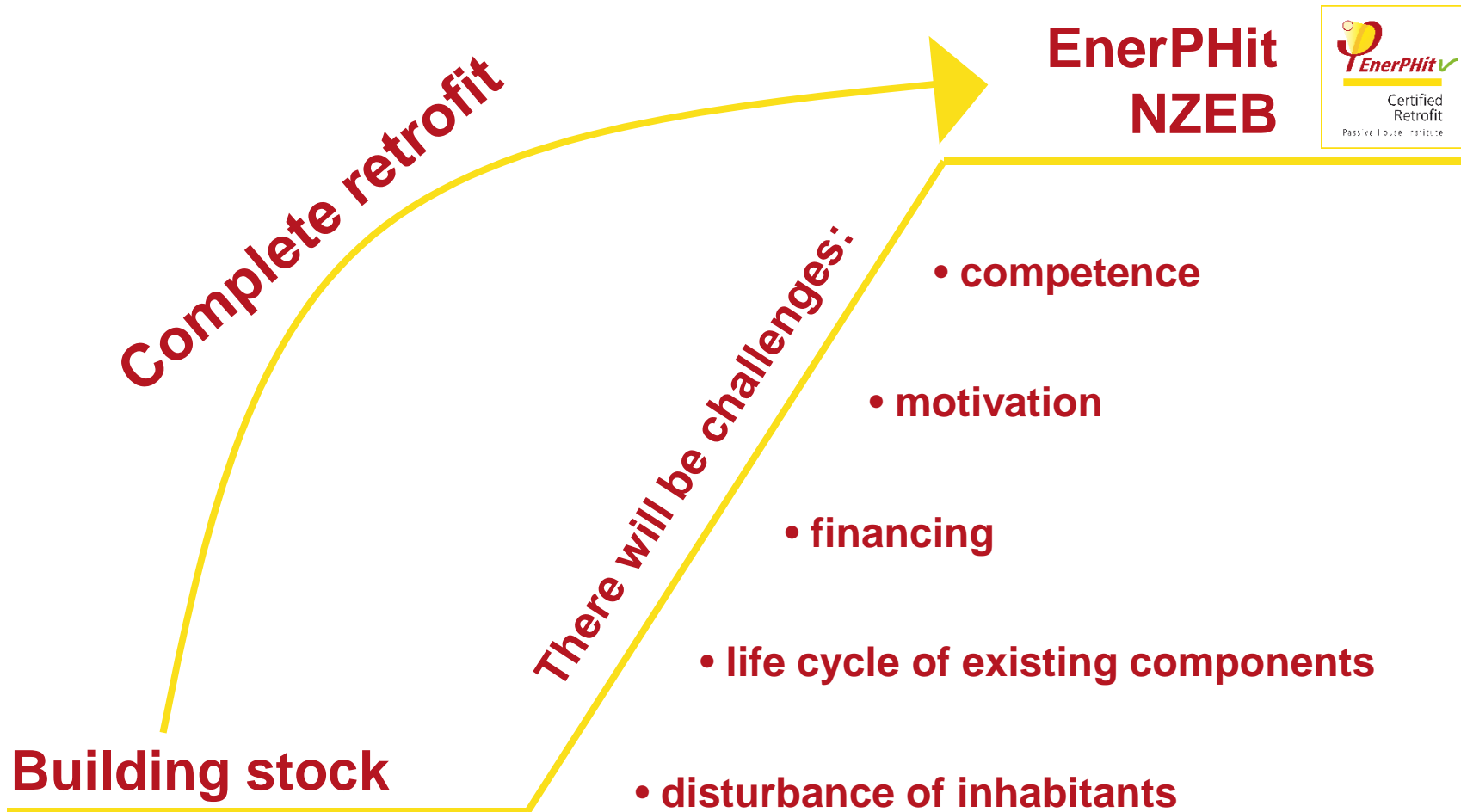


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All at once – we know it works!

EuroPHit



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...Or step by step

EuroPHit

Overall refurbishment plan

Building stock

• criteria and software tool WP 2

step

• pilot projects WP 3

by

• financing instruments WP 4

step

• suitable products WP 5

Retrofit

• dissemination WP 6

EnerPHit
+ RES

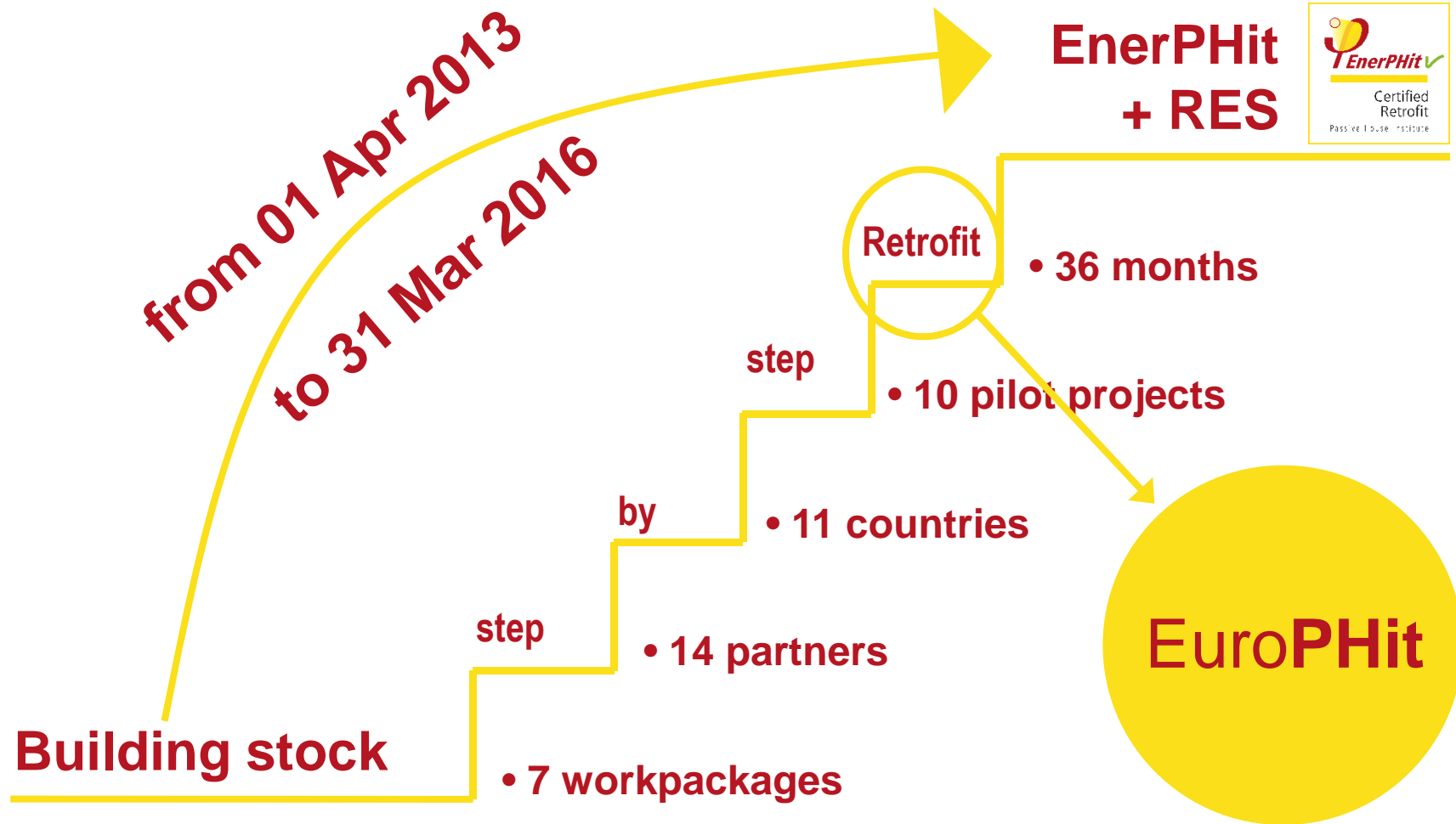


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Start NOW!

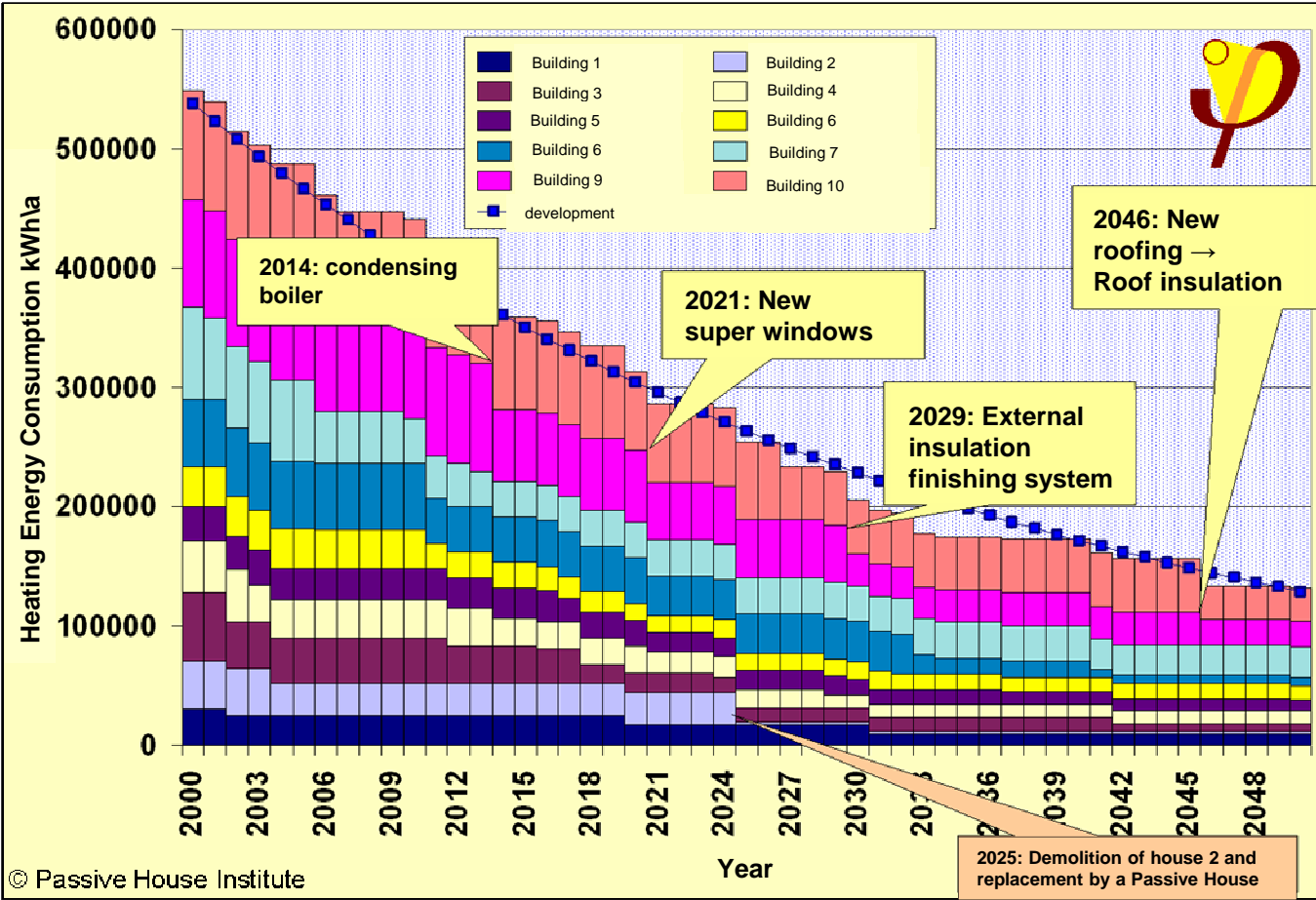
EuroPHit



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Deep retrofits are sustainable



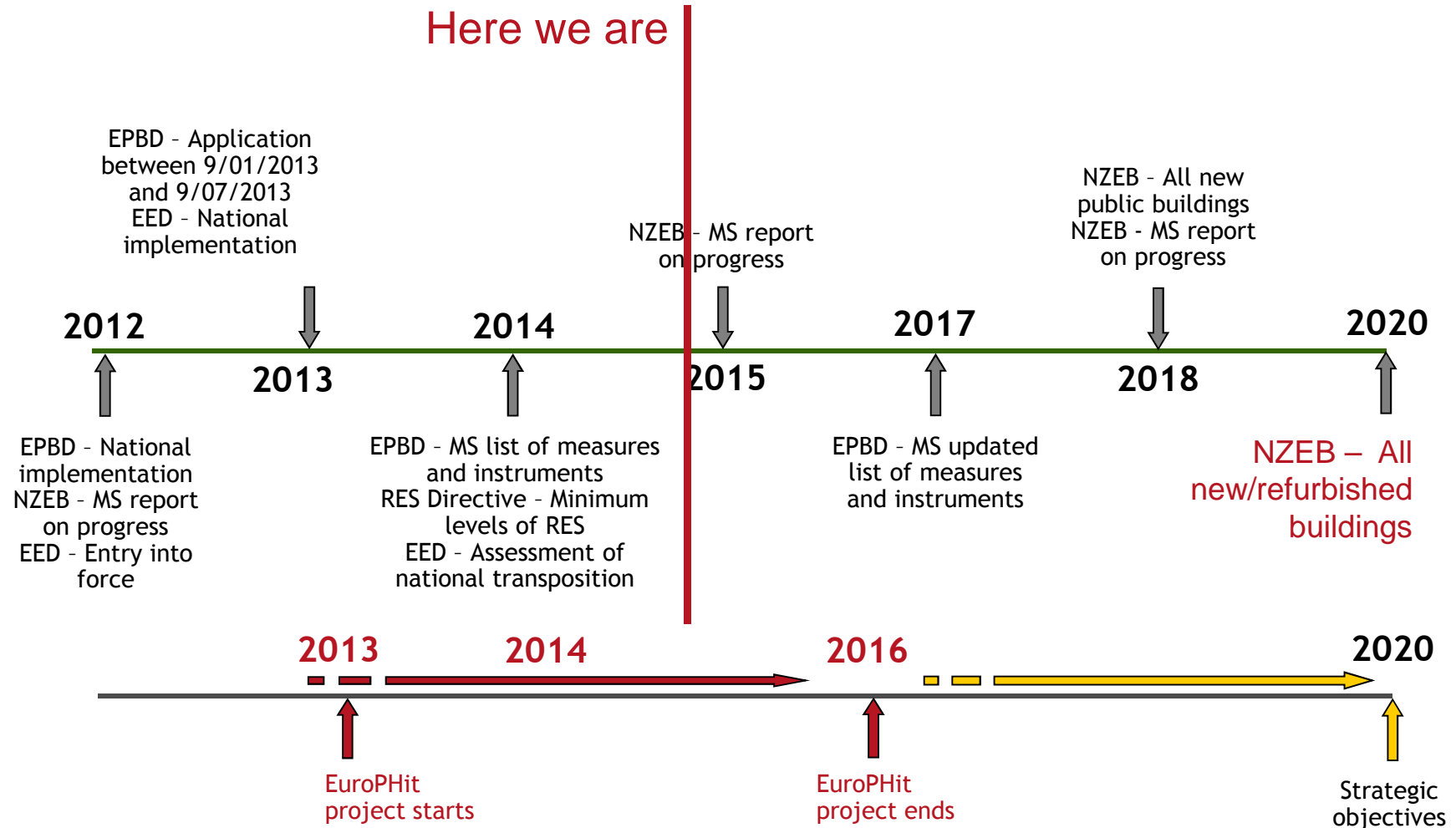
© Passive House Institute



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The policy background



The contents



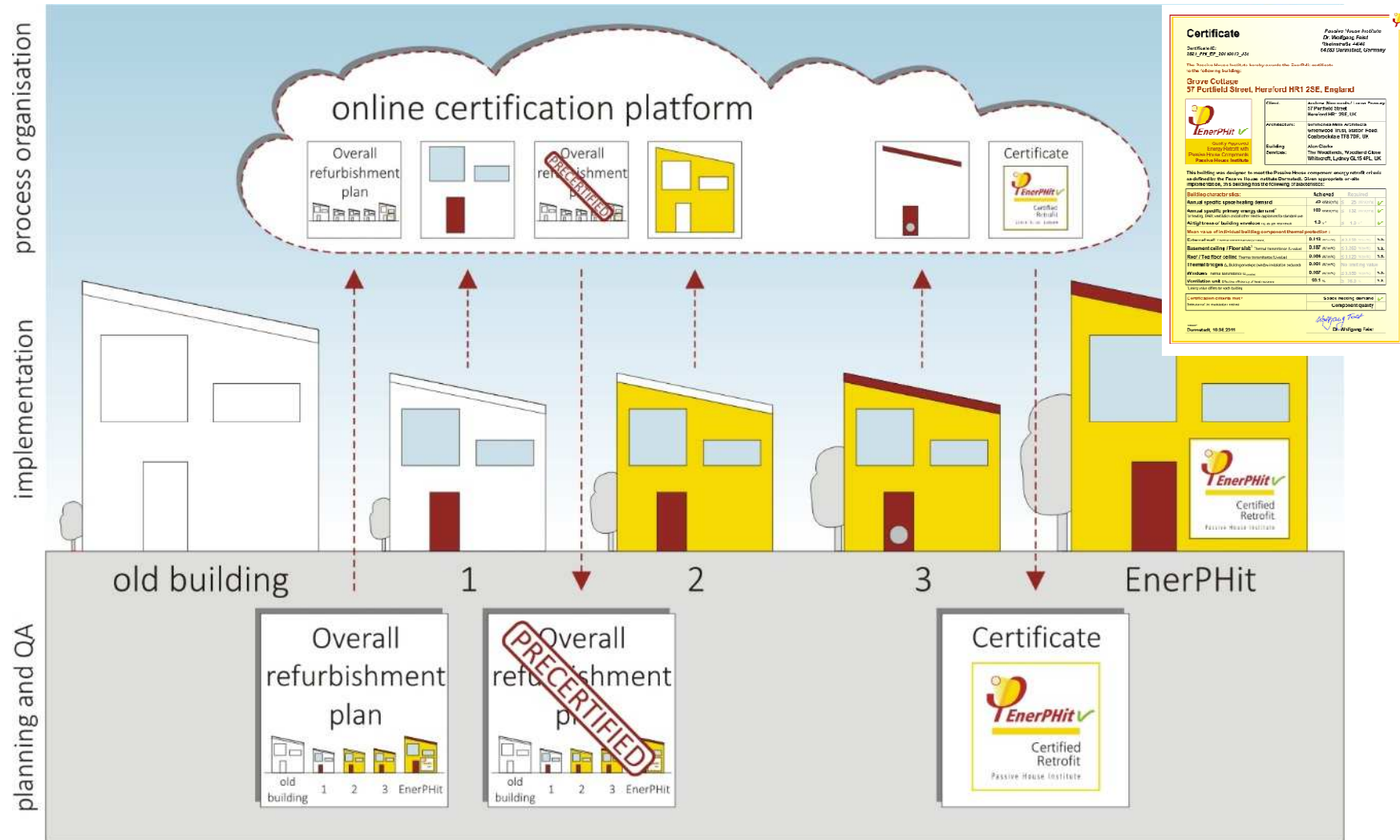
Expected results:

- **Criteria for step-by-step retrofits ✓**
- **Certificate scheme for step-by-step energy-efficient retrofits ✓**
- **Target group based elaboration / adaptation of key results**
- **Appraisal guideline for energy efficient retrofits incl. RES ✓**
- **Special financing models and market incentive programmes**
- **Design concepts for future product development**
- **Energy balance tool for the step-by-step energy retrofits ✓**



Certification criteria and scheme

EuroPHit

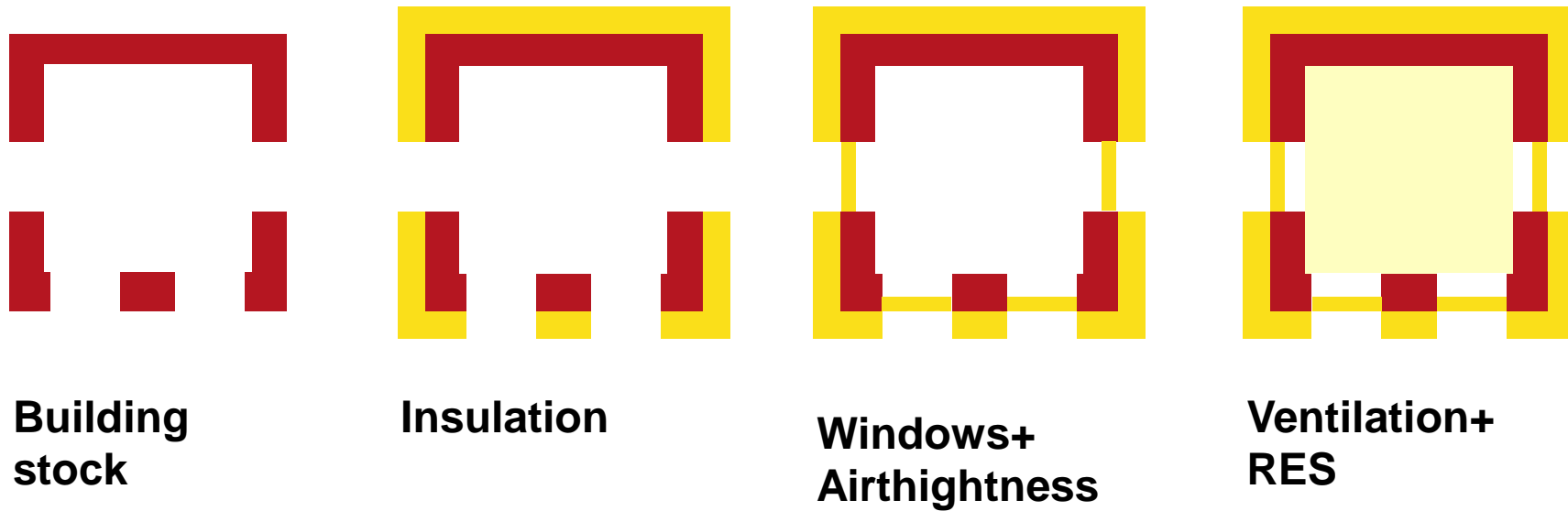


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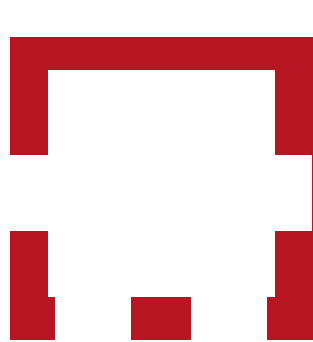
What is a step-by-step retrofit?

1. Components step-by-step

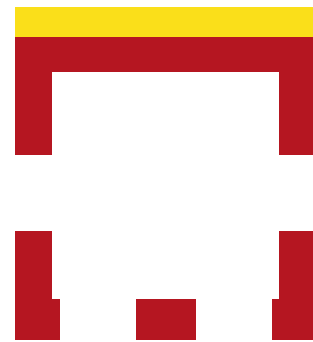


What is a step-by-step retrofit?

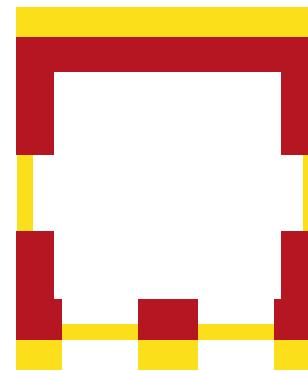
2. Facades / units / parts / whole sections step-by-step



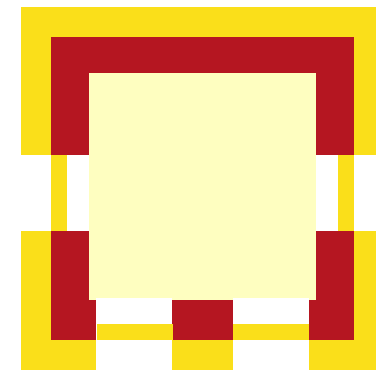
Building stock



North side



**South side+
Windows+
Airtightness**

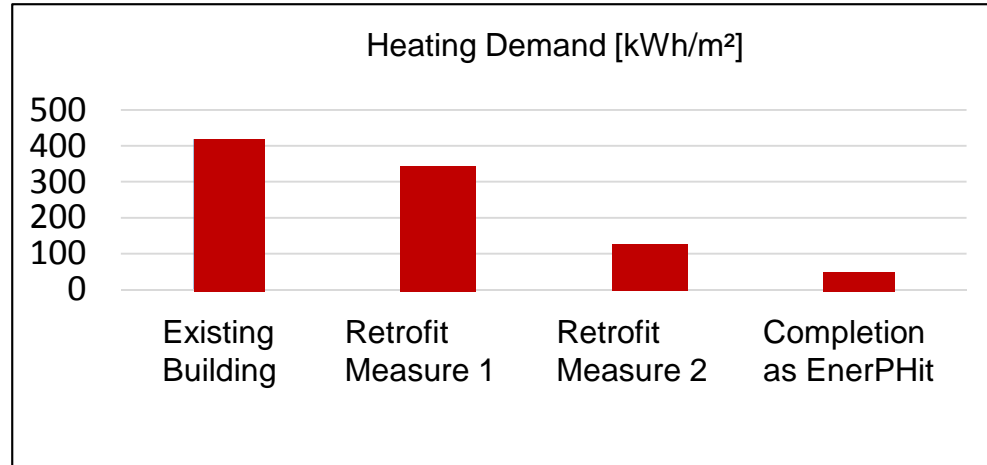


**Rest+
Ventilation+
RES**



Energy balance calculation tool

EuroPHit



Das Energiebilanzierungs- und Planungstool

für effiziente Gebäude und Modernisierungen



Variantenberechnung

Passivhaus mit PHPP Version 9.1

Passivhaus-Reihenendhaus / Klima: PHPP-Standard / EBF: 156 m² / Heizen: 61,7 kWh/(m²a) / Übertemperatur: 0,1 % / PER: 13,1 kWh/(m²a)

		aktiv					
		3 Passivhaus mit WP	Bestand	Schlechter Wärmeschutz	Mässiger Wärmeschutz	Passivhaus mit WP + Solarthermie	
Ergebnisse		Einheit	3	1	2	3	4
Heizwärmebedarf	kWh/(m²a)	61,7	418,8	107,1	61,7	11,6	
Heizlast	W/m²	36,3	175,1	62,1	36,3	9,5	
Kühl- + Entfeuchtungsbedarf	kWh/(m²a)						
Kühllast	W/m²						
Übertemperaturhäufigkeit (> 25 °C)	%	0,1	2,9	1,6	0,1	1,0	
PER-Bedarf	kWh/(m²a)	13,1	1131,0	255,9	13,1	33,3	
Passivhaus Classic?	ja / nein	nein	nein	nein	nein	nein	
▼ Endenergie			-	-	-	-	
▼ Heizleistung Wärmeerzeuger	kW	8,7	30,3	12,7	8,7	4,5	



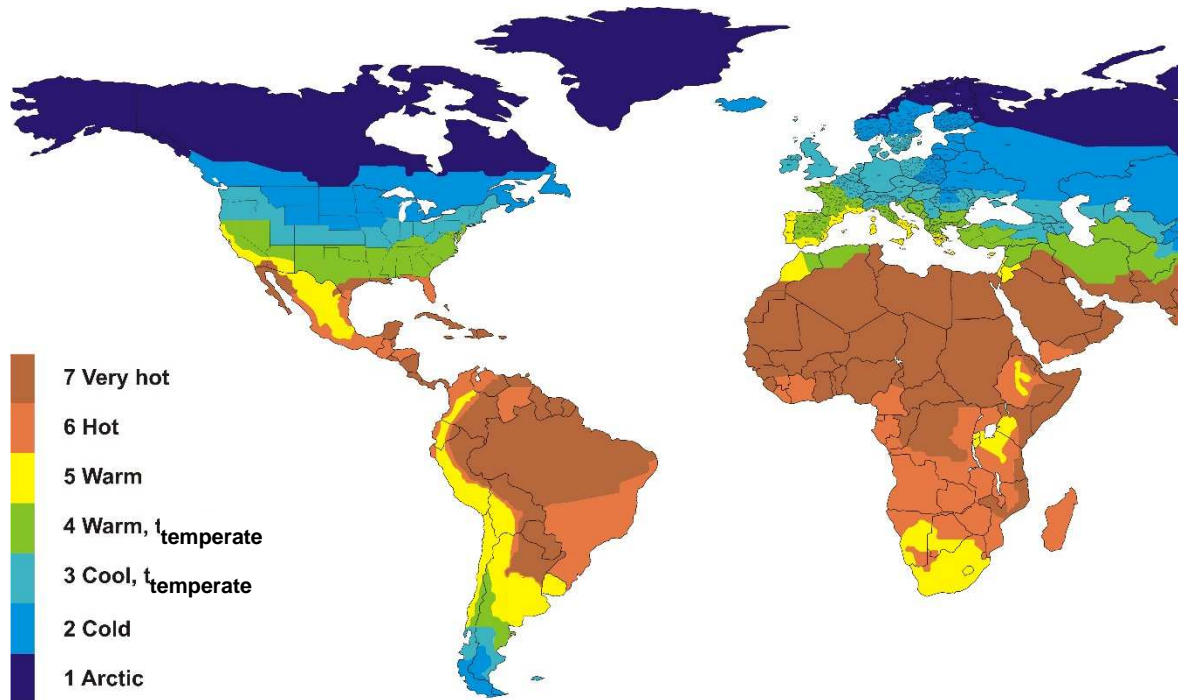
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EnerPHit standard for energy retrofit with PH components

EuroPHit

International criteria available, including sets of component requirements for 7 climate zones



Certificate

The Passive House Institute hereby awards the EnerPHit certificate to the following building:

Passive House, Passivestr. 100, P-12345 Passivcity

Passive House Institute
Dr. Wolfgang Feist
Rheinstraße 44/46
64283 Darmstadt, Germany

Client:	Paula Passive Passivestr. 100, 12345 Passivcity, Country	
Architecture:	Architect's Office Passivestr. 100, 12345 Passivcity, Country	
Building Services:	MEP-Engineering Office Passivestr. 100, 12345 Passivcity, Country	

This building was designed to meet the Passive House component energy retrofit criteria as defined by the Passive House Institute Darmstadt. Given appropriate on-site implementation, this building has the following characteristics:

Building characteristics:	Achieved	Required	
Annual specific space heating demand ¹	99 kWh/(m ² a)	≤ 25 kWh/(m ² a)	- ¹
Annual specific primary energy demand ² <small>for heating, DHW, ventilation and all other electric appliances for standard use</small>	999 kWh/(m ² a)	≤ 129 kWh/(m ² a)	✓
Airtightness of building envelope ³ (n ₅₀ per test result)	0.9 h ⁻¹	≤ 1.0 h ⁻¹	✓
Mean value of individual building component thermal protection:			
Exterior insulation to ambient ⁴ (Thermal transmittance (U-value))	0.999 W/(m ² K)	≤ 0.15 W/(m ² K)	✓
Exterior insulation to ground ⁵ (Thermal transmittance (U-value))	0.999 W/(m ² K)	≤ 0.19 W/(m ² K)	- ³
Interior insulation to ambient (Thermal transmittance (U-value))	0.999 W/(m ² K)	≤ 0.35 W/(m ² K)	✓
Interior insulation to ground (Thermal transmittance (U-value))	0.999 W/(m ² K)	≤ 0.61 W/(m ² K)	✓
Thermal bridges A ₁ (Building envelope/window installation excluded)	0.999 W/(m ² K)	No limiting value	
Windows (Thermal transmittance U _{value})	0.999 W/(m ² K)	≤ 0.85 W/(m ² K)	✓
Exterior doors (Thermal transmittance U _{value})	0.999 W/(m ² K)	≤ 0.80 W/(m ² K)	✓
Ventilation unit (Effective efficiency of heat recovery)	99.9 %	≥ 75 %	✓

¹Limiting value is not relevant; ²Limiting value differs for each building; ³The requirements can not be met (exception applies)

Certification criteria met?	Space heating demand
Selection of the evaluation method	Component quality ✓

Issued:
City, Date

Dr. Wolfgang Feist

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37

3 Case Study Projects

EuroPHit

- Home for the Elderly, County Dublin
- Secondary School, Galway
- Hotel, Valcanover
- Social Housing, Courcelles
- Social Housing, Liévin
- Family Home, Tourmon-sur-Rhone
- Therapy Centre, Asturias
- Single Family Home, Santander
- Two Schools, Gabrovo
- Family Home, Svartbäcksvägen
- Rehab Workshop, Naestved
- Council Apart. Block, Porto



Base map



www.europhit.eu/projects



Co-funded by the Intelligent Energy Europe Programme of the European Union



3 overall refurbishment plans

EuroPHit



EnerPHit verification

Building: Hotel Restaurant Valcanover
Country: Italy
Building type: Masonry construction
Climate: Purgine
 Altitude of building site (in [m] above sea level): 459

Year of Construction: 1928
Number of dwelling units: 1
Number of Occupants: 37.0
Exterior vol. V_e: 2948.8 m³

Specific building demands with reference to the treated floor area	Requirements	Fulfilled?
Space heating Annual heating demand: 269 kWh/(m²a)	25 kWh/(m²a)	no
Heating load: 128 W/m²	-	-
Space cooling Overall specific space cooling demand: 4 kWh/(m²a)	-	-
Cooling load: 13 W/m²	-	-
Frequency of overheating (> 25 °C): %	-	-
Primary Energy Heating, cooling, desalinating, DHW, space heating and auxiliary electricity: 445 kWh/(m²a)	425 kWh/(m²a)	no
Specific primary energy reduction through solar electricity: kWh/(m²a)	-	-
Airtightness Pressurization test result n ₅₀ : 10.0 1/h	1 1/h	no

I confirm that the values given herein have been determined following the PHPP methodology and were determined based on the characteristics of the building. The PHPP calculations are attached to this application.

EnerPHit building retrofit (acc. to heating demand)? no

EnerPHit verification

Building: Hotel Restaurant Valcanover
Country: Italy
Building type: Masonry construction
Climate: Purgine
 Altitude of building site (in [m] above sea level): 459

Year of Construction: 1928
Number of dwelling units: 1
Number of Occupants: 37.0
Exterior vol. V_e: 3281.5 m³

Specific building demands with reference to the treated floor area	Requirements	Fulfilled?
Space heating Annual heating demand: 18 kWh/(m²a)	25 kWh/(m²a)	yes
Heating load: 22 W/m²	-	-
Space cooling Overall specific space cooling demand: 5 kWh/(m²a)	-	-
Cooling load: 13 W/m²	-	-
Frequency of overheating (> 25 °C): %	-	-
Primary Energy Heating, cooling, desalinating, DHW, space heating and auxiliary electricity: kWh/(m²a)	123 kWh/(m²a)	-
Specific primary energy reduction through solar electricity: kWh/(m²a)	-	-
Airtightness Pressurization test result n ₅₀ : 1.0 1/h	1 1/h	yes

I confirm that the values given herein have been determined following the PHPP methodology and were determined based on the characteristics of the building. The PHPP calculations are attached to this application.

EnerPHit building retrofit (acc. to heating demand)? yes



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3 Trainings

EuroPHit



www.europhit.eu/events



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Certification platform

EuroPHit

Aktivitäten Firefox Mo, 9. Mär, 17:04 de

Passive House Checklist for New Passive House - Mozilla Firefox

Passive House Checklist ...

https://certification.fragmich.net/en/checklists/14/update/

Progress of project : 13.0 %

Obsolete content
Hide Show

1. PHPP, general

2. Drawings

2.1 Site location plan with adjacent buildings

2.2 Photographs of building, site + surroundings

- Please include photographs of the surroundings in all directions. Shading objects are important for heating/cooling demand.

Okay by designer
 Notify certifier

Okay by certifier

New comment:
Here are the first photos.

Durchsuchen... 1.jpg
Durchsuchen... 2.jpg
Durchsuchen... 3.jpg
Durchsuchen... 4.jpg

Keine Datei ausgewählt.

2.3 Floor plans

2.4 Cross sections

2.5 Elevations

2.6 Details of the thermal envelope

2.7 Information about shading objects

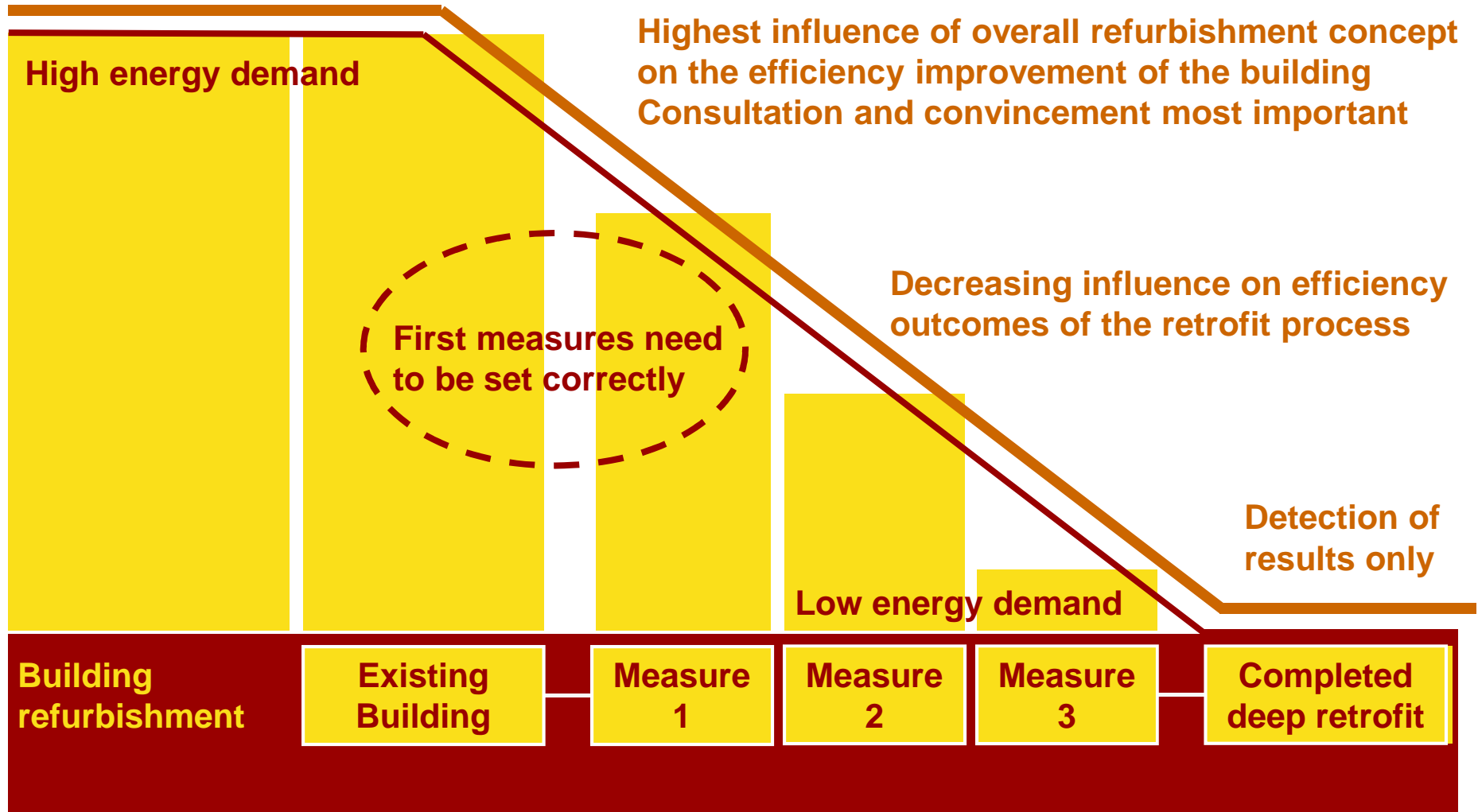
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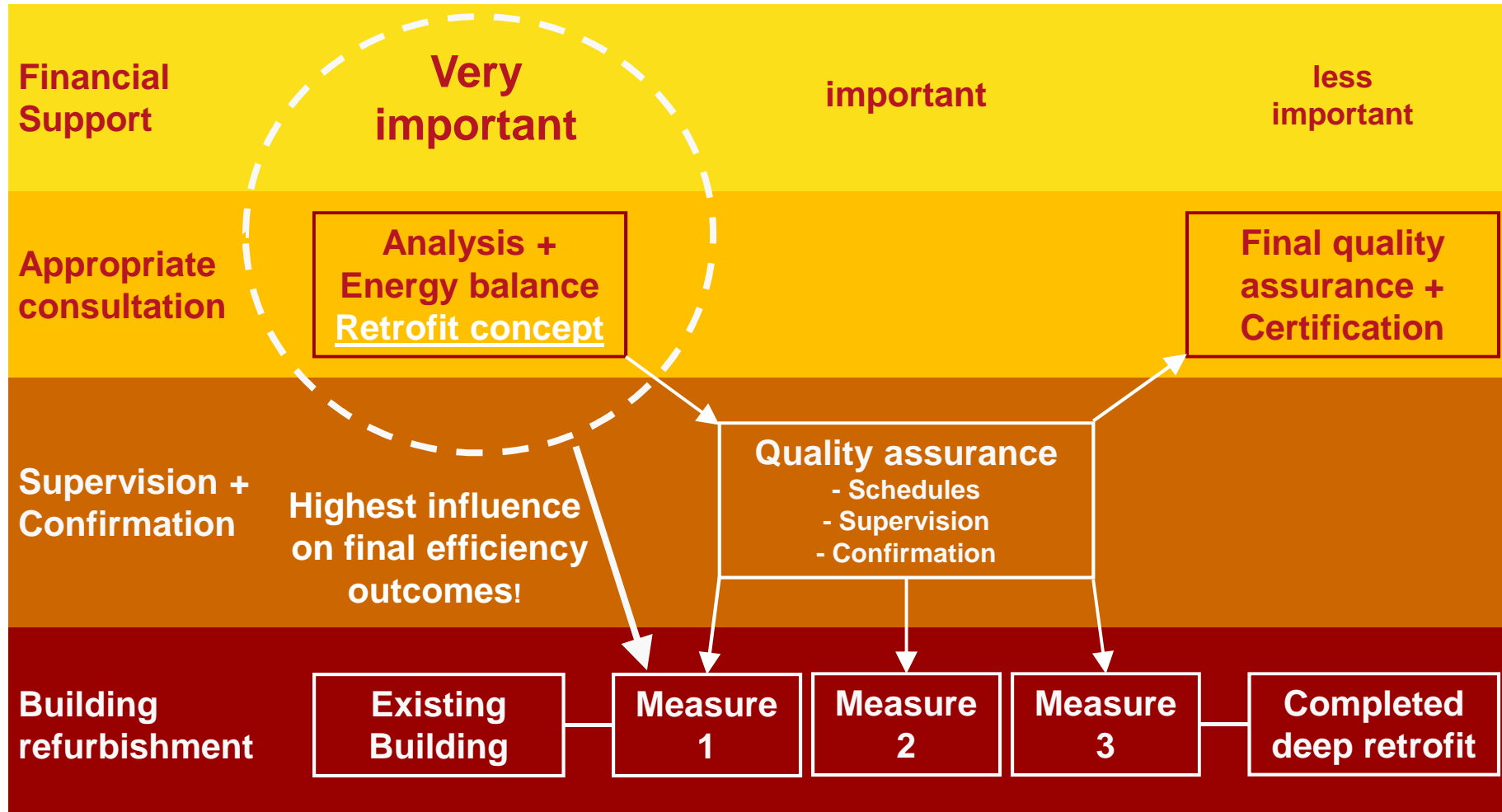
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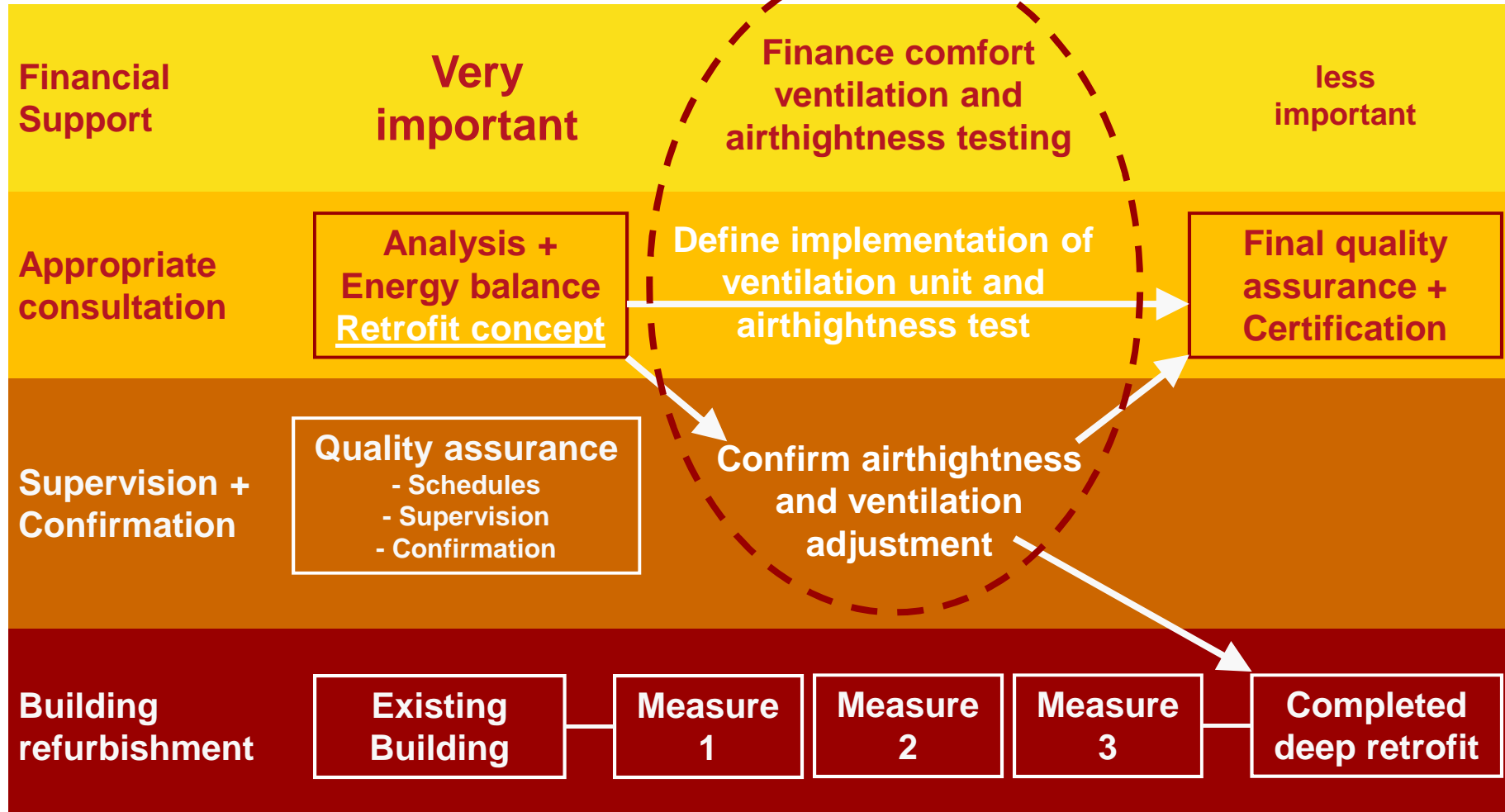
4 Financial concepts



4 Financial focus on initial consultation EuroPHit



4 Support unpopular measures



4 Questionnaires

EuroPHit

bre

EuroPHit Questionnaire

This questionnaire is intended to investigate people's experience of energy efficient (EE) refurbishments in European countries as part of the research for the EuroPHit project. We would be very grateful if you would spend a few minutes to complete the questionnaire which is in four sections.

Section 1: General Information
Section 2: Financial opportunities and barriers
Section 3: Existing finance models
Section 4: Your experience of EE refurbishments

All information you provide will be treated in confidence by the research team. Please note that until you submit your response at the end of the survey, your answers will be saved so you can take a break and return to the survey at any time as long as you use the same e-mail address.

Section A: About you and your organisation

A1: Please provide some details about you and your organisation

Name of your organisation

Your name

Your e-mail

Your phone number

Work address 1

Work address 2

Work address 3

Post Code

Country

Next

Survey Powered by **Qualtrics**

We are interested in your experience! Check

www.europhit.eu/questionnaires



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4 Financial workshops

EuroPHit



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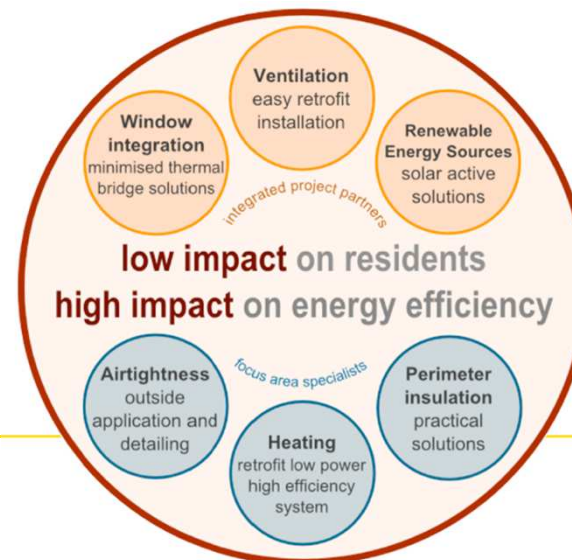
5 Product Development

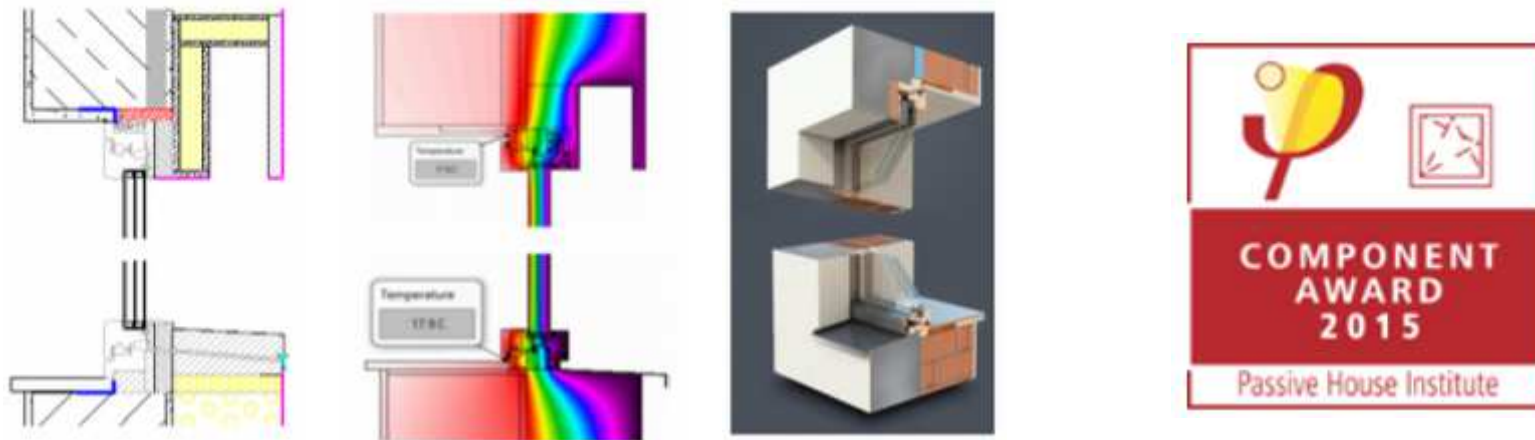
- Increase availability and spur the development of regional Passive House components for step-by-step retrofit and deep renovation
- Development of design concepts and scientifically validated guidelines for suitable Passive House components

Currently developed

- Final Guidelines with precisely defined concepts
- Draw attention of other manufacturers and motivate them to get involved in the development of retrofit components ✓

Component award 2015





The main challenge in the Component Award 2015 for Passive House windows was that the product had to show a degree of flexibility since refurbishments are often carried out in a step-by-step manner.

Ideal windows had to deliver excellent results during the transitional period as well as after the completion of all refurbishment measures.

The cost effectiveness of the windows was assessed first and foremost, with a comparison of purchase costs with potential savings.



19th International Passive House Conference

EuroPHit



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Framework programme related to Project at 19th International Passive House Conference

EuroPHit

Do you have a question on step-by-step retrofits and its financing?

Come to EuroPHit booth, which will be a part of the Passive House Institute's booth No 3.7 at **exhibition hall** in Congress Center Leipzig. **EuroPHit Partners** will be ready to answer your questions.

Come and learn more about step by step retrofits in praxis and also financing related to refurbishment:

- Thursday, 16 April, **Congress Center Leipzig**

Business case seminar <small>EuroPHit</small>	2:00pm - 6:30pm	Programme available
--	-----------------	----------------------------

This seminar, supported by the EU-funded **EuroPHit** project and put on by the **EuroPHit** Passive House Institute, explores the business case for Passive House concepts and components. The half-day event will provide insight into the economics of building energy efficiency and high performance building components, as well using the PHPP to compare the business cases for design variants. The basics of economic feasibility calculations and boundary conditions will be explained as will the influence of funding programmes.





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19th International Passive House Conference EuroPHit

17th April 2015, Congress Center Leipzig

PLENARY SESSION	Time	Location
Opening remarks Dorothee Dubrau, Ruairi O´Brien, Hubertus Milke, Frank Heidrich	9:00am	Hall 1
Passive House and EU Support Philippe Moseley	9:25am	Hall 1
Passive House Components Wolfgang Feist 	9:45am	Hall 1
Results of the European Passive House Projects PHI Team	10:30am	Hall 1
Component Award Ceremony PHI Team 	11:00am	Hall 1
Group visit to the exhibition	11:15am	

Session	Time	Location
I. NZEBs and the economics of Passive House	1pm - 3:30pm	Hall 1
II. Building services	1pm - 3:30pm	Hall 2
III. Leipzig and Saxony	1pm - 3:30pm	Hall 3
IV. EuroPHit: Components for Refurbishing 	1pm - 3:30pm	Hall 4
V. Components: Building envelope	4pm - 6:30pm	Hall 1
VI. Planning, analysis and training	4pm - 6:30pm	Hall 2
VII. EnerPHit: Innovative retrofitting concepts	4pm - 6:30pm	Hall 3
VIII. China is catching up	4pm - 6:30pm	Hall 4



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Programme of the European Union



19th International Passive House Conference EuroPHit

18th April 2015, Congress Center Leipzig

PLENARY SESSION	Time	Location
Opening remarks Wolfgang Feist	9:00am	Hall 1
Trans-European EnerPHit Case Studies Lead the Way Tomas O'Leary <small>EuroPHit</small>	9:15am	Hall 1
Classic, plus, premium: The new Passive House classes and how they can be reached Benjamin Krick	9:45am	Hall 1

Session	Time	Location
IX. Building services engineering	10:30am - 1pm	Hall 1
X. Non-residential Passive House buildings	10:30am - 1pm	Hall 2
XI. PassREg-Regions take on their leading role <small>PassREg</small>	10:30am - 1pm	Hall 3
XII. EuroPHit - Step-by- Step Retrofits <small>EuroPHit</small>	10:30am - 1pm	Hall 4
XIII. The path towards Nearly Zero-Energy Buildings	2:30pm - 5pm	Hall 1
XIV. PassREg - Passive House neighbourhoods <small>PassREg</small>	2:30pm - 5pm	Hall 2
XV. Energy efficiency in warm and hot climates	2:30pm - 5pm	Hall 3
XVI. Innovative Projects from all over the World	2:30pm - 5pm	Hall 4

Additional program within the session	Time	Location
Experts forum (DE) Programme available	2:30pm - 4:00pm	Hall 5

PLENARY SESSION	Time	Location
Closing Plenary session Wolfgang Feist	5:15pm - 6:00pm	Hall 1

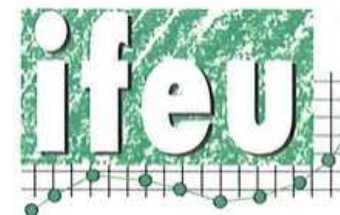


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ifeu AWARD 2014

- The certification concept for step-by-step retrofits focused on highly efficient building modernisations, developed by PHI, and largely developed within EuroPHit project, has won first prize in a competition. The award jury especially lauded the approach of a "refurbishment road map" with appropriate individual steps.
- The intent is to provide both a certification of such "overall road maps" as well as an energy assessment of the individual refurbishment steps in the planning tool PHPP.
- The award was initiated by the Institute for Energy and Environmental Research in Heidelberg (ifeu).



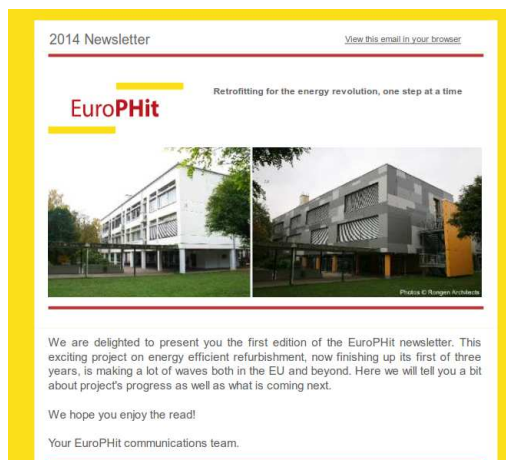
A screenshot of the website 'Gebäude Energieberater'. The header is red with a yellow navigation bar. The main content area is white and features a blue banner for a 'Ratgeber-App für Architekten, Ingenieure und Planer'. Below this is a diagram titled 'Die Zukunft im Blick' showing a progression from 'Altbau' to 'EnerPHit' through three stages of modernization. The diagram includes icons for 'Online-Zertifizierungs-Plattform', 'Moderner Sanierungsfahrplan (SBFA)', and 'Zertifikat'. On the right side, there are several red and white boxes for 'EnerPHit' related content, including 'Energie-Management', 'GEB INFODIENSTE', 'FRAGE DES MONATS', and 'WISSENSCHECK'. The footer contains text about the award and the institute's involvement in the EuroPHit project.



Completed PR Material

EuroPHit

✓ **Project Newsletter (D6.2)**
Template + all translations



✓ **Project leaflet (D6.3)**
Template + all translations



✓ **Presentation update (D6.4)**
Template + all translations



✓ **General poster (D6.5)**
Template + all translations

- English version
- Bulgarian version
- Czech version
- Danish version
- French version
- German version
- Italian version
- Slovakian version
- Spanish version
- Swedish version

- New Partners: ONYX and Askeen



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EuroPHit - Website

EuroPHit

Regularly updated with new data –
Case studies, Events, News, Info material... Your input is welcome!

Retrofitting for the energy revolution, one step at a time

EuroPHit

Home Energy Retrofits Projects Finance Products Events Info & News Members

© Passive House Institute

The EuroPHit Project

With the EnerPHit Standard as the goal and Passive House principles as the basis, EuroPHit applies knowledge on deep energy retrofits to the oft-overlooked yet critical area of step-by-step refurbishments.

Sign up with the EuroPHit network, free of charge, and become part of a pool of competence on energy retrofitting. Benefits include access to the EuroPHit Forum as well as being kept up to date on project progress and key project outcomes.

Upcoming Events

- Int'l Passive House Days
7-9 November, 2014
- Int'l Passive House Conference
17-18 April, 2015

Further Info

Retrofitting for the energy revolution, one step at a time

EuroPHit

Home Energy Retrofits Projects Finance Products Events Info & News Members

Home » Projects » Case Studies

Case Studies

CS01 Rochestown Home for Elderly
Building Owner/Consulting EuroPHit Partner: Dun Laoghaire Rathdown (DLR) County Council / MosArt
Country: Ireland
Existing treated floor area: 1 613.00 m²

CS02 RosMuc Secondary School
Building Owner/Consulting EuroPHit Partner: Vocational Educational Committee (VEC) / MosArt
Country: Ireland
Existing treated floor area: 579.57 m²

CS03 Hotel-Restaurant Valcanover
Building Owner/Consulting EuroPHit Partner: Maria Biasi and Monica Valcanover / ZEPHIR
Country: Italy
Existing treated floor area: 586.00 m²

Upcoming Events

- Int'l Passive House Days
7-9 November, 2014
- Int'l Passive House Conference
17-18 April, 2015

Further Info

- Passive House Institute
- IPHA The International Passive House Association
- Passipedia: The Passive House resource
- Passive House Database



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International networks

EuroPHit

- Sign up for EuroPHit free of charge!
- Create a vibrant networks that exist even after project

The screenshot displays the EuroPHit website interface. At the top, a navigation menu includes Home, Energy Retrofits, Projects, Finance, Products, Events/Awards, Info & News, and Members. Below the menu, a breadcrumb trail reads 'Home » EuroPHit members for listing'. A search bar with a 'Search' button is positioned to the right. The main content area is titled 'EuroPHit Members For Listing' and includes an 'Edit Search Criteria' link. It states 'Displaying contacts where: Contacts IN' and provides a link to 'Map these contacts'. A pagination bar shows 'Page 1 of 6' and 'Contact 1 - 50 of 267'. Below this is a table of member profiles, each with a small icon, name, city, profession, and 'View Map' links. To the right, a 'Hot EuroPHit Forum' section is highlighted with a yellow box. It contains a registration form for the 'EuroPHit Network'. The form includes a membership selection (0.00 € Free EuroPHit membership), an email address field, a checkbox for signing up on behalf of an organization, a username field with a 'Check Availability' link, and a note about punctuation in usernames. Below the forum section, an 'Upcoming Events' section lists 'Int'l Passive House Conference' (17-18 April, 2015) and 'Int'l Passive House Days' (13-15 November, 2015).

Name	City (Primary)	Profession	
Alberti, Nicola	Travagliato (BS)	Architect/planner	View Map
Alberto Anselmo, Alberto	Asti	Engineer	View Map
Albrecht, Peter	San Sebastian	Architect/planner	View Map
aleman, juan mari	elizondo	Architect/planner	View Map
alonso, ana	Madrid	Architect/planner	View Map
Amort, Richard	Rodeneck	Manufacturer/supplier of building components	View Map
Annovazzi, Stefania	Brescia (BS)	Architect/planner	View Map
Argiolas, Marco	Milano	Manufacturer/supplier of building components	View Map
Arnautu, Dragos	Darmstadt	Architect/planner	View Map



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Forum – Get involved !

EuroPHit

FORUM
iPHA
Where Passive House stakeholders meet

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FAQ Members Logout [eva.vahalova@passiv.de]

It is currently Fri 27. Mar 2015, 13:06
[Moderator Control Panel]
Last visit was: Wed 4. Mar 2015, 12:45

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TECHNICAL	TOPICS	POSTS	LAST POST
Unread posts Building envelope and building services windows, insulation, wall systems, airtightness, thermal bridges as well as ventilation units, heating and cooling, DHW... Moderator: eva.vahalova@passiv.de	66	286	by tomas@passivehouseacademy.ie Wed 25. Mar 2015, 12:54
PHPP and certification PHPP calculations, software issues, certification criteria and the certification process... Moderator: alang	52	246	by tomas.mikeska@passiv.de Wed 18. Feb 2015, 16:11

SOCIAL	TOPICS	POSTS	LAST POST
Networking and opportunities Passive House networks, job opportunities, education, events ... Moderator: alang	9	13	by wolfgang.hasper@passiv.de Fri 6. Mar 2015, 12:39

STRATEGIC AND FAQ	TOPICS	POSTS	LAST POST
Strategic discussions Zero energy, fuel factors, intergration of renewables, nearly zero energy buildings, cost effectiveness, legislation... Moderator: eva.vahalova@passiv.de	6	36	by sarah Tue 29. Jul 2014, 15:23
General FAQ For general questions, questions about the forum and other random stuff... Moderator: eva.vahalova@passiv.de	3	5	by sarah Thu 9. Oct 2014, 17:02
Affiliates classified for use by staff/experts of iPHA Affiliate Organisations only Moderators: alang , ipha	5	17	by andre@passivehouse.ca Sun 14. Dec 2014, 08:56
iPHA Forum Committee The support for the Forum Committee to exchange ideas! Moderators: alang , ipha	5	15	by rosemeier@passivehouse.org Sat 20. Jul 2013, 09:09

FORUM	TOPICS	POSTS	LAST POST
EuroPHit All discussions and questions related to the EuroPHit project and step-by-step refurbishments Moderator: eva.vahalova@passiv.de	31	60	by eva.vahalova@passiv.de Mon 23. Mar 2015, 12:18

STATISTICS
Total posts 692 • Total topics 177 • Total members 630

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Forum – Log in and share your experience!

EuroPHit

- EuroPHit Forum was integrated to iPHA forum with separate section with topic and polls
- EuroPHit MONDAYS: The most posting 3 participants could win the PHPP bundle before the conference
- Interesting posts published on EuroPHit website and iPHA Newsletters

Hot EuroPHit Forum Discussions NOW!

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- Determination of airtightness
- Competence of persons involved
- Perceived barriers and solutions to financing
- More demonstration projects needed

EuroPHit
Moderator: eva.vahalova@passiv.de

NEW TOPIC Search this forum... Search

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ANNOUNCEMENTS	REPLIES	VIEWS	LAST POST
EuroPHit CALLS FOR by eva.vahalova@passiv.de » Fri 23. Jan 2015, 12:49	4	46	by eva.vahalova@passiv.de » Fri 23. Jan 2015, 13:16
EuroPHit - Retrofitting for the energy revolution by eva.vahalova@passiv.de » Thu 22. Jan 2015, 19:01	8	121	by eva.vahalova@passiv.de » Mon 23. Mar 2015, 12:20

TOPICS	REPLIES	VIEWS	LAST POST
Integrated ventilation concepts by eva.vahalova@passiv.de » Mon 23. Mar 2015, 12:18	0	5	by eva.vahalova@passiv.de » Mon 23. Mar 2015, 12:18
Target groups by eva.vahalova@passiv.de » Mon 23. Mar 2015, 12:17	0	3	by eva.vahalova@passiv.de » Mon 23. Mar 2015, 12:17
Products for step-by-step retrofits by eva.vahalova@passiv.de » Mon 23. Mar 2015, 12:16	0	1	by eva.vahalova@passiv.de » Mon 23. Mar 2015, 12:16
Lock-in situation before change of ownership by eva.vahalova@passiv.de » Mon 16. Feb 2015, 22:47	1	14	by jastor » Thu 19. Mar 2015, 02:07
Temporary EIFS connections by eva.vahalova@passiv.de » Tue 10. Feb 2015, 15:50	4	21	by jastor » Thu 19. Mar 2015, 01:44
Connection detail by eva.vahalova@passiv.de » Mon 16. Mar 2015, 11:08	0	5	by eva.vahalova@passiv.de » Mon 16. Mar 2015, 11:08
One Stop Shop in energy efficient retrofit by eva.vahalova@passiv.de » Mon 16. Mar 2015, 11:07	0	4	by eva.vahalova@passiv.de » Mon 16. Mar 2015, 11:07
Financial institution for financing retrofits by eva.vahalova@passiv.de » Mon 16. Mar 2015, 11:07	0	4	by eva.vahalova@passiv.de » Mon 16. Mar 2015, 11:07
Media to approach with EuroPHit findings by eva.vahalova@passiv.de » Tue 10. Feb 2015, 15:52	3	22	by nesifranz » Thu 12. Mar 2015, 15:48
Existing financings models by eva.vahalova@passiv.de » Mon 23. Feb 2015, 15:14	2	18	by iglika » Wed 11. Mar 2015, 13:08
Suitable details wanted by eva.vahalova@passiv.de » Tue 10. Feb 2015, 15:48	1	12	by jastor » Tue 10. Mar 2015, 14:36
Single retrofit steps common practice? by eva.vahalova@passiv.de » Tue 10. Feb 2015, 15:40	1	23	by jastor » Tue 10. Mar 2015, 14:28
Requirements for financial institutions by eva.vahalova@passiv.de » Mon 9. Mar 2015, 12:38	0	3	by eva.vahalova@passiv.de » Mon 9. Mar 2015, 12:38
Implications of quality assurance by eva.vahalova@passiv.de » Mon 9. Mar 2015, 12:38	0	7	by eva.vahalova@passiv.de » Mon 9. Mar 2015, 12:38
Case studies & financial implications by eva.vahalova@passiv.de » Mon 9. Mar 2015, 12:37	0	3	by eva.vahalova@passiv.de » Mon 9. Mar 2015, 12:37
Planning decreasing heat demand by eva.vahalova@passiv.de » Mon 23. Feb 2015, 15:13	1	13	by sp@passivhus.dk » Wed 4. Mar 2015, 18:08

Board index • Technical • Building envelope and building services

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EuroPHit - Retrofitting for the energy revolution
Moderator: eva.vahalova@passiv.de

POST/REPLY Search this topic... Search

EuroPHit - Retrofitting for the energy revolution
by eva.vahalova@passiv.de » Thu 22. Jan 2015, 19:01

EuroPHit

In this EuroPHit Forum are weekly posted topics related to step-by-step retrofits, technical and conceptual details, project financing, product ideas and also weekly opinion polls. Experienced **Passive House Institute** researchers and EuroPHit partners are ready to answer your questions and help you to get your renovations done correctly.

Participate now for a chance to win PHPP9 and designPH bundle or free iPHA Membership!

All Forum participants with a minimum of 15 posts will be entered into a random draw for a chance to win one of 3 free bundle packs of PHPP9 and designPH or 3 six-month iPHA Memberships. Winners will be announced at the 19th International Passive House Conference.

"IF YOU DO IT, DO IT RIGHT"

1st Week: 2.2.-8.2.2015
by eva.vahalova@passiv.de » Tue 10. Feb 2015, 15:39
Single retrofit steps common practice? <http://forum.passivpeda.org/viewtopic.php?12981194>, INCLUDING POLL

Determination of airtightness <http://forum.passivpeda.org/viewtopic.php?12981195>

Example projects for step-by-step retrofits wanted <http://forum.passivpeda.org/viewtopic.php?12981196>

2nd Week: 9.2.-15.2.2015
by eva.vahalova@passiv.de » Tue 10. Feb 2015, 15:47
Suitable details wanted <http://forum.passivpeda.org/viewtopic.php?12981197>

Temporary EIFS connections <http://forum.passivpeda.org/viewtopic.php?12981198>, INCLUDING POLL

Media to approach with EuroPHit findings <http://forum.passivpeda.org/viewtopic.php?12981199>

3rd week - 16.2.-22.2.2015
by eva.vahalova@passiv.de » Mon 16. Feb 2015, 22:43



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Please see www.passivehouse-international.org for further information. Participating buildings will be listed as of September on www.passivehouse-database.org

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International PASSIVE HOUSE Association IPHIA

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Case study and observer projects will be available to PH Days!



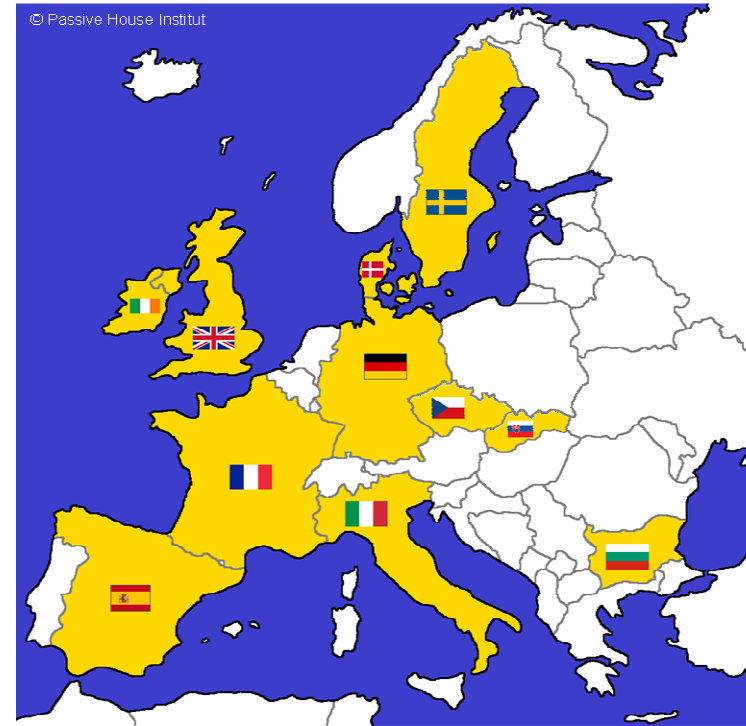
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Thank you for your attention

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