

EuroPHit

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



Well known examples

EuroPHit

Can it be done?



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



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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Programme of the European Union



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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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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Programme of the European Union



Listed office building – Becker in Rimbach (DE)

EuroPHit

Before



After refurbishment: 20 kWh/(m²a)



Client: Grundstücksgesellschaft Schloßstr. 9 Becker u. Martin GbR, DE

Architect: Peter Hinz, Planungsgruppe 7, DE

Completion: 2011



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Programme of the European Union



Gymnasium Baesweiler - Energetische Sanierung (DE)

EuroPHit

Before



After refurbishment 15 kWh/(m²a)



Client: City of Baesweiler, DE

Architect: Rongen Architekten, DE

Completion: 2010



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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

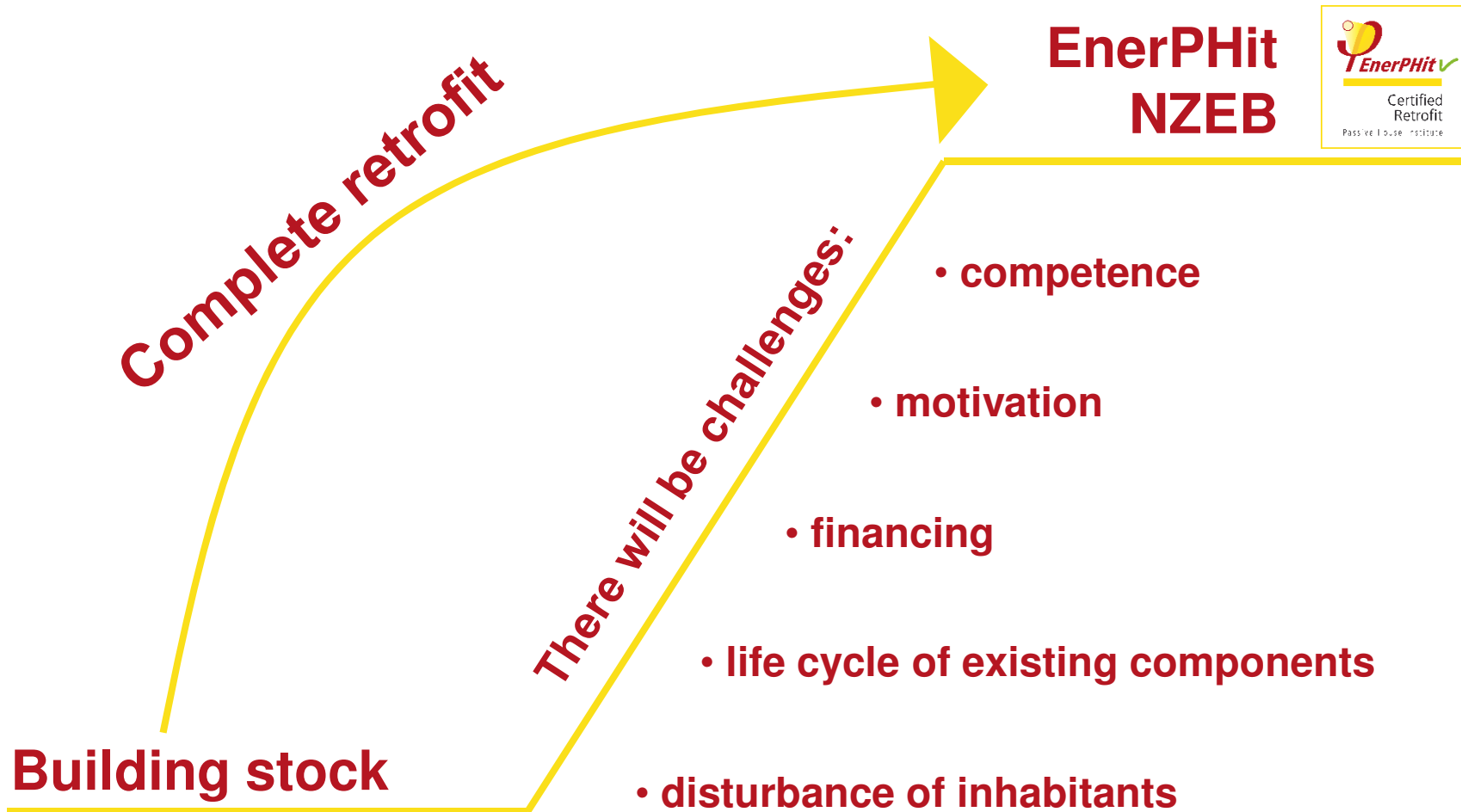


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All at once – we know it works!

EuroPHit



...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

**from 01 Apr 2013
to 31 Mar 2016**

Building stock

• 7 workpackages

step

• 14 partners

by

• 11 countries

step

• 10 pilot projects

Retrofit

• 36 months

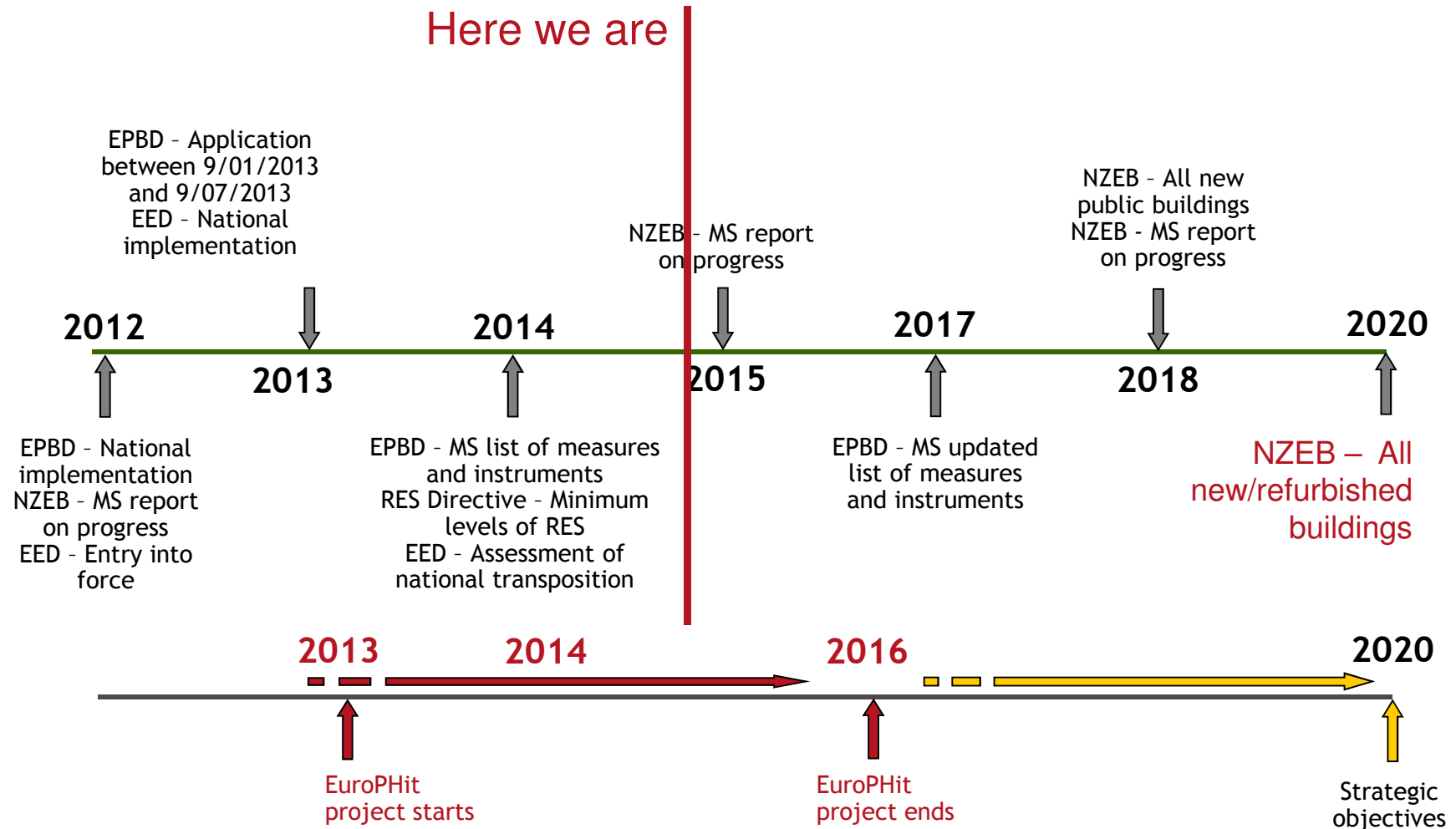
**EnerPHit
+ RES**



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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 ✓**



1 Management

Coordination, management of consortium and meetings



Frankfurt / DE



Aachen / DE



Bratislava / DE



Dublin / IE



Leipzig / DE



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2 Quality Assurance and design tools

EuroPHit

- Criteria and set up certification process for sbs refurbishments ✓

Almost completed, expected Summer 2015

- Develop an energy balancing tool for step-by-step refurbishments incl. RES and implement it into the PHPP ✓

PHPP 9 released in German, English version expected late 2015

- Set up a concept for minimal monitoring ✓

Completed, uploaded to passipedia

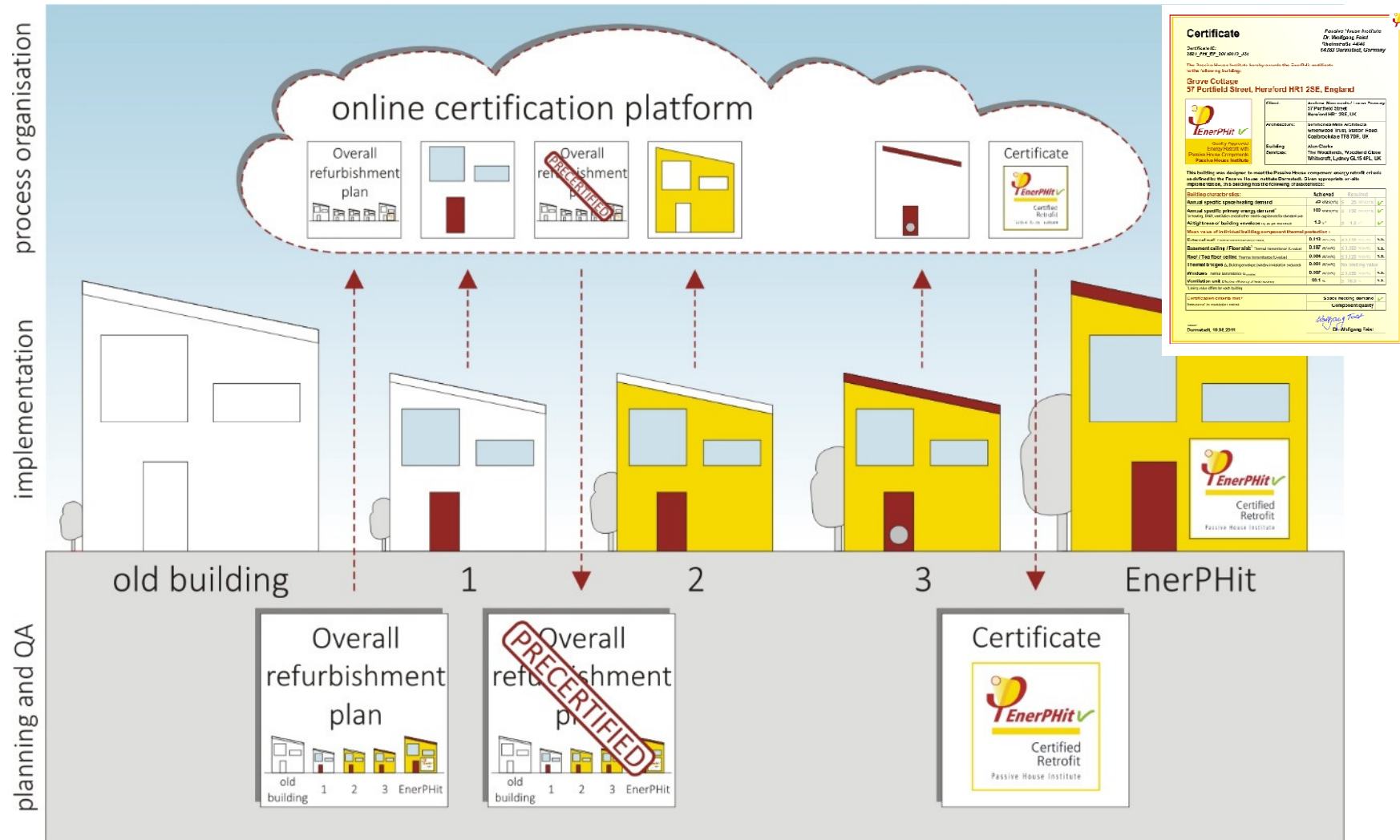
- Create handbook with focus on step-by-step retrofits
- Set up training modules for designers and craftspeople

Outlines available on www.europhit.eu



Certification criteria and scheme

EuroPHit

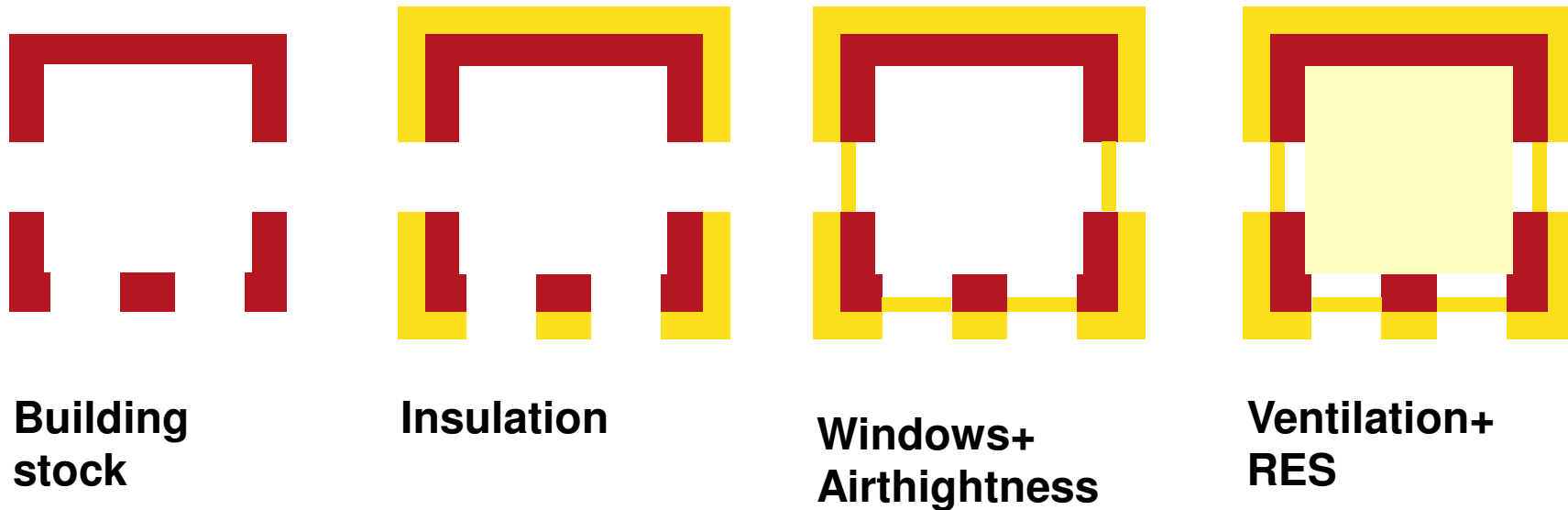


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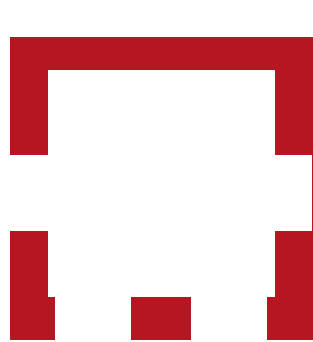
What is a step-by-step retrofit?

1. Components step-by-step

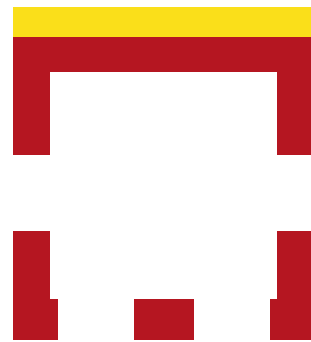


What is a step-by-step retrofit?

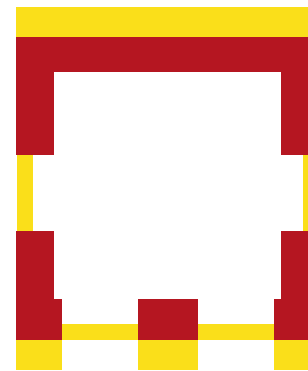
2. Facades / units / parts / whole sections step-by-step



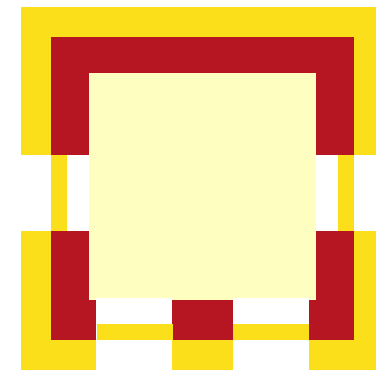
Building stock



North side



**South side+
Windows+
Airtightness**

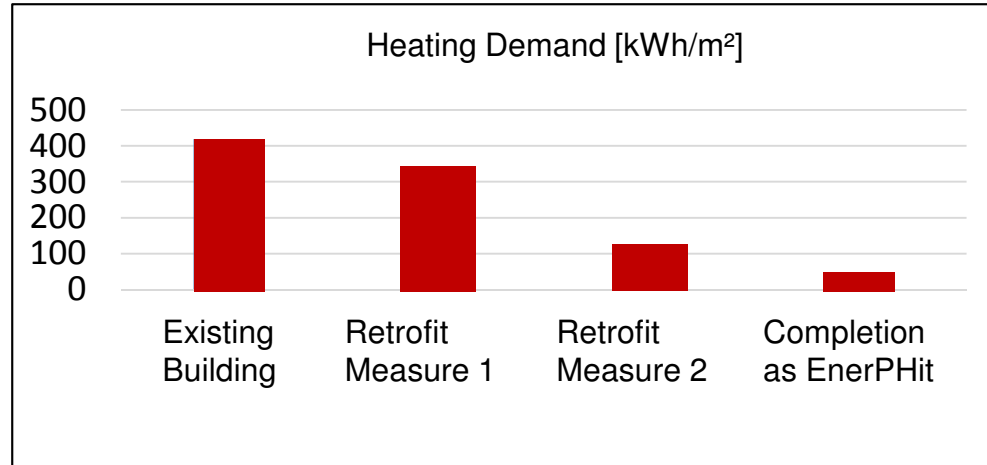


**Rest+
Ventilation+
RES**



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				
		aktive Variante wählen >>				
		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



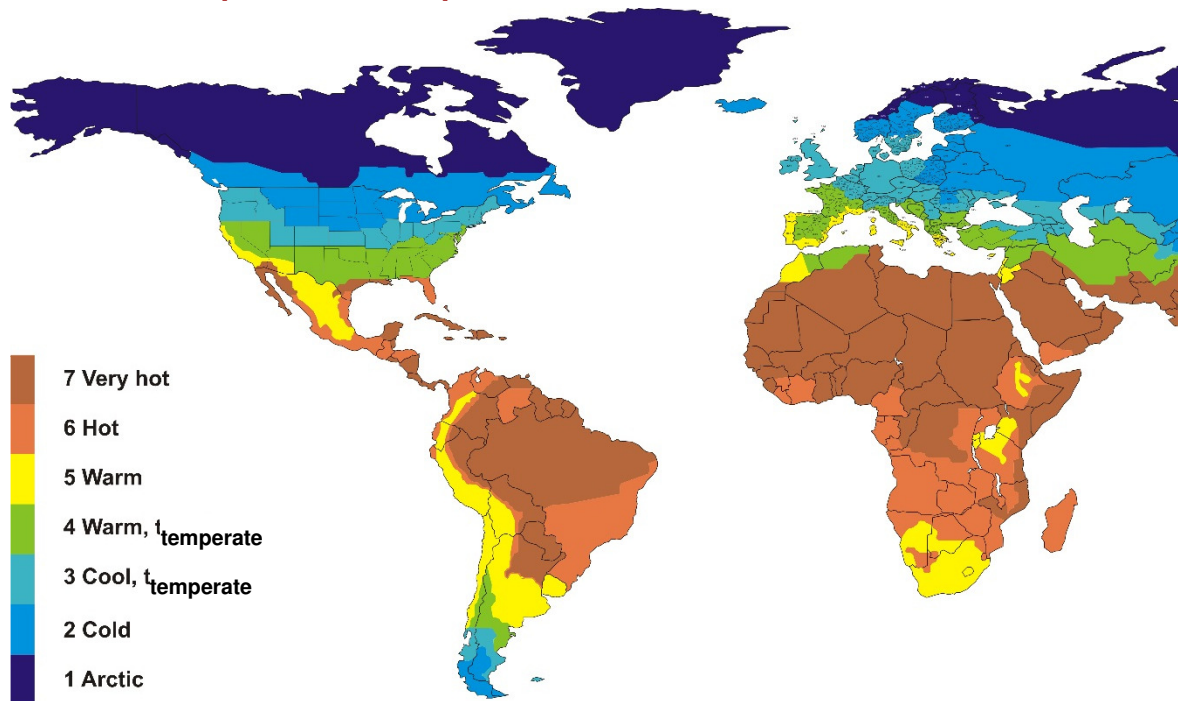
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EnerPHit standard for energy retrofit with PH components

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 <small>(n₅₀ per test result)</small>	0.9 h ⁻¹	≤ 1.0 h ⁻¹	✓
Mean value of individual building component thermal protection:			
Exterior insulation to ambient <small>Thermal transmittance (U-value)</small>	0.999 W/(m ² K)	≤ 0.15 W/(m ² K)	✓
Exterior insulation to ground ³ <small>Thermal transmittance (U-value)</small>	0.999 W/(m ² K)	≤ 0.19 W/(m ² K)	- ³
Interior insulation to ambient <small>Thermal transmittance (U-value)</small>	0.999 W/(m ² K)	≤ 0.35 W/(m ² K)	✓
Interior insulation to ground <small>Thermal transmittance (U-value)</small>	0.999 W/(m ² K)	≤ 0.61 W/(m ² K)	✓
Thermal bridges <small>A_g Building envelope (window installation excluded)</small>	0.999 W/(m ² K)	No limiting value	
Windows <small>Thermal transmittance (U-value)</small>	0.999 W/(m ² K)	≤ 0.85 W/(m ² K)	✓
Exterior doors <small>Thermal transmittance (U-value)</small>	0.999 W/(m ² K)	≤ 0.80 W/(m ² K)	✓
Ventilation unit <small>Effective efficiency of heat recovery</small>	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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3 Practical Implementation

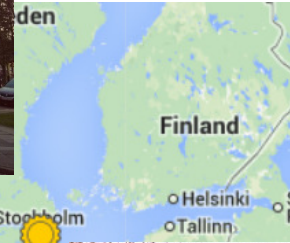
- Select at least 10 refurbishment projects ✓
Completed, observer projects are being added
- Set up overall refurbishment concepts ✓
Drafts completed, revisions according to projects
- complete at least the first refurbishment step
7 projects on site, 3 this summer, 3 in winter
- Develop specific construction details for sbs refurbishment
Platform under construction, expected Summer 2015
- Set up tender specifications for step-by-step refurbishments
Collected, expected Summer 2015
- Train design and contractor teams for sbs and deep retrofits
Trainings ongoing
- Monitor and document the performance of the retrofit measures
- Evaluate PV potentials for all CS projects ✓
Almost completed



3 Case Study Projects

EuroPHit

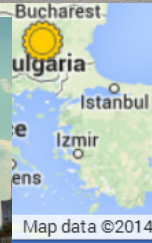
- Home for the Elderly, County Dublin
- Secondary School, Galway
- Hotel, Valcanover
- Social Housing, Courcelles
- Social Housing, Liévin
- Family Home, Tourmon-sur-Rhone
- Therapy Centre, Asturias
- Single Family Home, Santander
- Two Schools, Gabrovo
- Family Home, Svartbäcksvägen
- Rehab Workshop,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



Base map



www.europhit.eu/projects



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3 overall refurbishment plans

EuroPHit



EnerPHit verification

Building: Hotel Restaurant Valcanover
Country: Italy
Building type: Masonry construction
Climate: Porgine
 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: 2946.8 m³

Interior temperature winter [C°]: 20.0
Interior heat gains winter [W/m²]: 9.4
Interior temp. summer [C°]: 25.0
IHG summer [W/m²]: 18.3
Spec. capacity [W/K per m² TFA]: 204
Mechanical cooling: X

Specific building demands with reference to the treated floor area	Requirements	Fulfilled?
Space heating Annual heating demand	269 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, dehumidifying, DHW, space heating and auxiliary electricity	868 kWh/(m²a)	no
Specific primary energy reduction through solar electricity	445 kWh/(m²a)	-
Airtightness Pressurization test result n ₅₀	10.0 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: Porgine
 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

Interior temperature winter [C°]: 20.0
Interior heat gains winter [W/m²]: 9.4
Interior temp. summer [C°]: 25.0
IHG summer [W/m²]: 18.3
Spec. capacity [W/K per m² TFA]: 204
Mechanical cooling: X

Specific building demands with reference to the treated floor area	Requirements	Fulfilled?
Space heating Annual heating demand	18 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, dehumidifying, DHW, space heating and auxiliary electricity	123 kWh/(m²a)	-
Specific primary energy reduction through solar electricity	kWh/(m²a)	-
Airtightness Pressurization test result n ₅₀	1.0 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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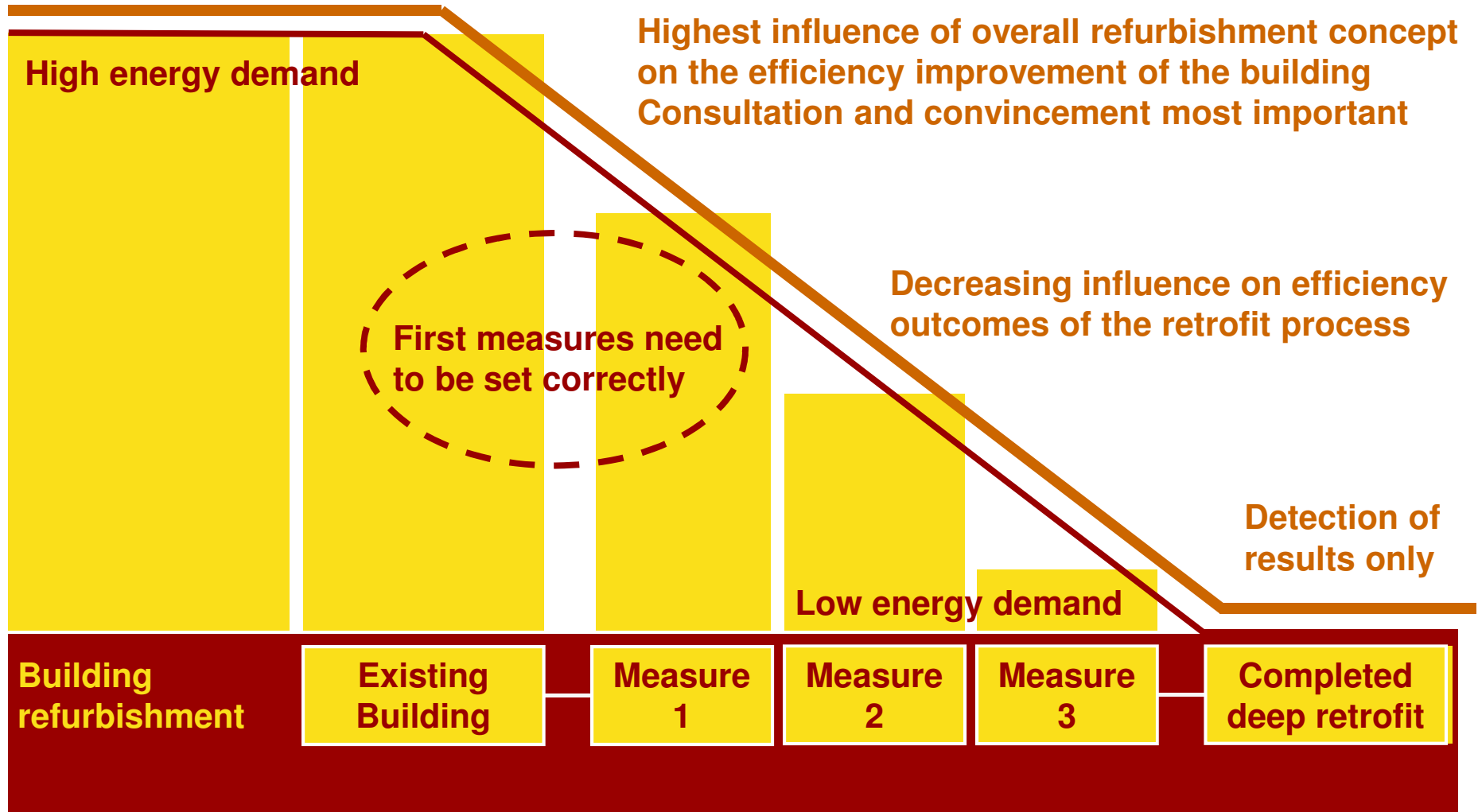
4 Models for Finance

- Questionnaires to collect retrofit project information ✓
Ongoing, online questionnaire available
- Analyse the fiscal concepts for step-by-step refurbishments
Ongoing, expected Summer 2015
- Set up financial guidelines ✓
Draft completed, available on www.europhit.eu
Provide a lifecycle concept to assess long term strategies
draft available on www.passipedia.org
- Provide solution to overcome existing market barriers
Ongoing
- Develop incentive policies for ‘high quality’ and ‘energy efficiency’
Starting
- Develop one-stop shop solutions
Starting
- Motivate financial institutions to provide new financing models ✓
Financial workshops all over Europe, 5 completed



4 Focus for step-by-step financing

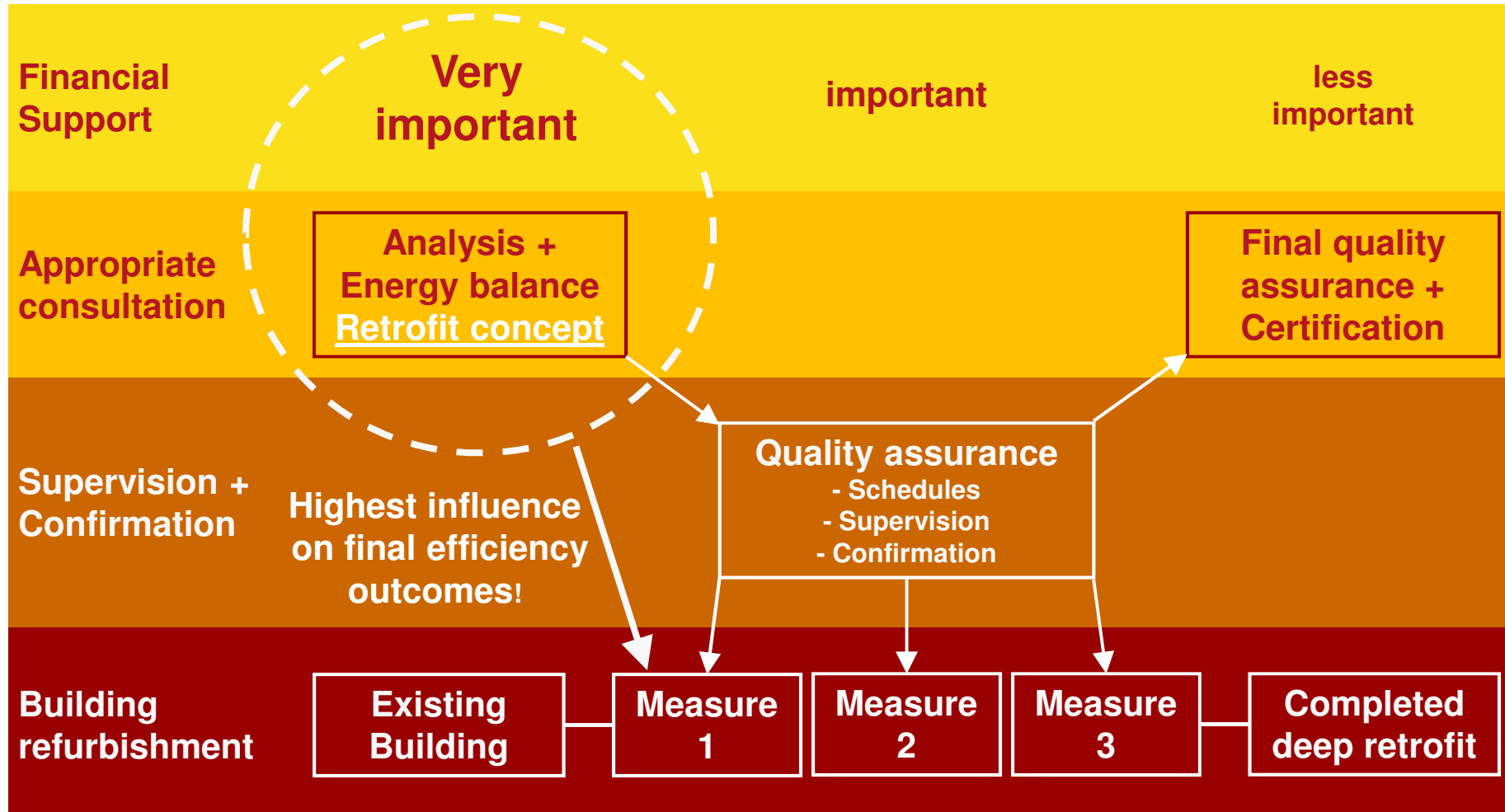
EuroPHit



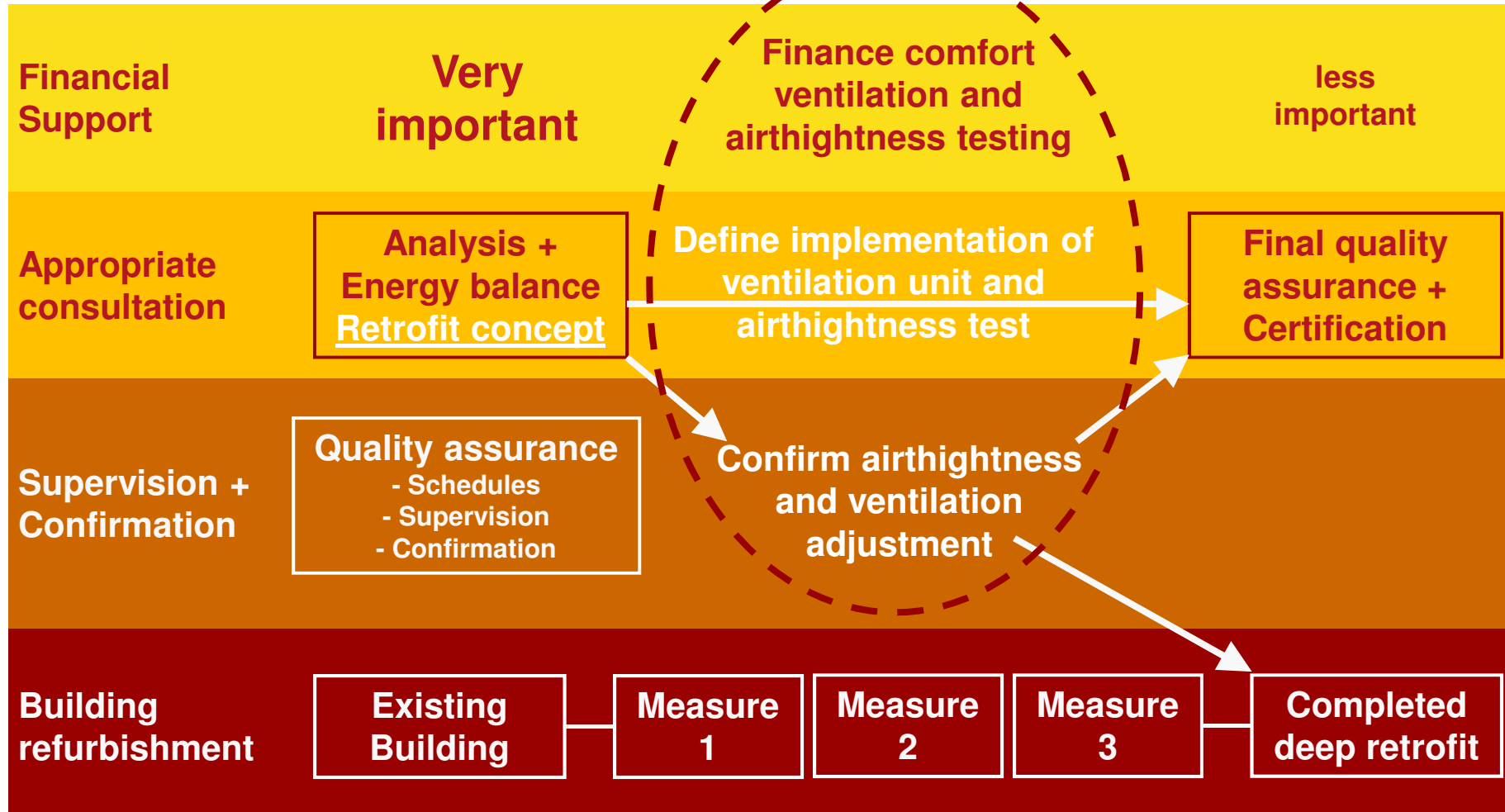
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4 Financial focus on initial consultation EuroPHit



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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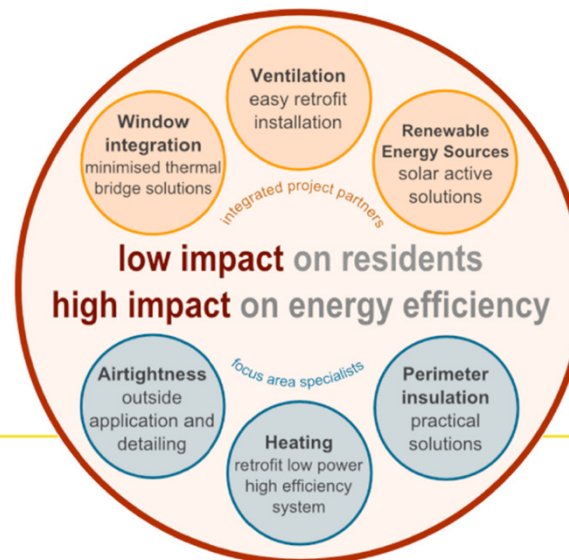
5 Product Development

- 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



6 Dissemination

EuroPHit

- Devo of comm strategy key orgs & how to reach them ✓
Completed
- PR materials including a project leaflet, poster, roll-ups, presentations, press releases, newsletters ✓
Completed or ongoing, available on www.europhit.eu
- Final brochure
- EuroPHit website, member area, forum and FAQ ✓
Completed or ongoing, get involved here: www.europhit.eu
- QA procedure for experts on step-by-step refurbishment
Platform is tested
- Participation in the PH Conference
www.europhit.eu/events
- Participation in regional PH Days
11th International Passive House Days



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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 EuroPHit	2:00pm - 6:30pm	Programme available
---------------------------------------	-----------------	----------------------------

This seminar, supported by the EU-funded EuroPHit project and put on by the 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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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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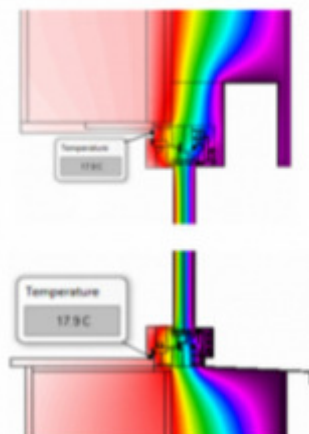
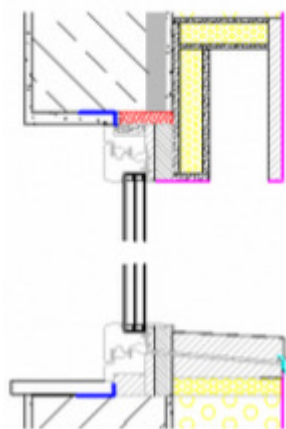
19th International Passive House Conference

EuroPHit



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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.



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 for "Gebäude Energieberater". The header is red with the title "Gebäude Energieberater" in white. To the right of the title is a green circular logo for "KLIMA-NEUTRAL". Below the title is a search bar with the text "SUCHE / WEBCODE" and a "SUCHEN" button. The navigation menu includes "HOME", "ZEITSCHRIFT", "ARCHIV", "NEWSLETTER", "DOSSIERS & THEMEN", "INFODIENSTE", "FORUM", "ABO", and "STELLENMARKT". The main content area features a blue banner for "Die Ratgeber-App für Architekten, Ingenieure und Planer" with the website "www.recht-architektende". Below this is a section titled "Die Zukunft im Blick" with a diagram showing the progression from "Altbau" to "EnerPHit" through three stages of modernization. The diagram includes icons for "Online-Zertifizierungs-Plattform", "Modernisierungs-Fahrplan", and "Zertifikat". To the right of the main content are three red boxes: "GEB INFODIENSTE" with links to newsletter, forum, termines, dossiers, wissenscheck, and app; "FRAGE DES MONATS" with a question about solar and biomass incentives; and "WISSENSCHECK" with a checkmark icon and the text "Testen Sie Ihr Wissen und lernen Sie dazu! Jeden Monat".



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
 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

Fertig



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

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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 retrofiting. 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, there is a navigation menu with items: 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 is located on the right side of the page.

EuroPHit Members For Listing

▸ Edit Search Criteria

Displaying contacts where:
Contacts IN
[» Map these contacts](#)

Next > Last >> Contact 1 - 50 of 267 Page 1 of 6

	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

Hot EuroPHit Forum

Home » EuroPHit network

EuroPHit Network

Here you can sign up for free for the EuroPHit website. Registered members can use the forum and show up in the members listing if they wish to.

In case you sign up on behalf of an organization or a company, please check the appropriate checkbox, so that some additional fields will show up.

Membership * 0.00 € Free EuroPHit membership

Email Address *

I am signing up on behalf of an organization or company.

Please enter a Username to create an account. If you already have an account [please login](#) before completing this form.

Username * [Check Availability](#)

Punctuation is not allowed in a Username with the exception of periods, hyphens and underscores.

Upcoming Events

Int'l Passive House Conference
17-18 April, 2015

Int'l Passive House Days
13-15 November 2015



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International / Regional networks – Join us ! EuroPHit

- 267 EuroPHit members (27.3.2015)



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FAQs – Questions answered

EuroPHit

Home Energy Retrofits Projects Finance Products Events/Awards Info & News Members

Home » Members » FAQs

FAQs

Categories:

General | Financing | Ventilation | Design tools (PHPP) | Components

GENERAL

- Is it cheaper to retrofit step by step than in one shot?
- Are there special products available for step by step renovation?
- How can renewable energy sources (RES) be integrated into a renovation project?
- What is the most cost-effective first retrofit step?
- What should be prioritised in a step by step retrofit - the renewables or the building fabric?
- Is the EnerPHit standard suitable for my building?
- What are the main requirements for EnerPHit certification?
- Can we have a fireplace in an EnerPHit building?
- Can we open the windows in an EnerPHit building?
- Is there any requirement that has to be fulfilled in the intermediate steps of a step-by-step refurbishment?
- What are the wider societal benefits to undertaking energy efficient refurbishment?

Is it cheaper to retrofit step by step than in one shot?

With a step by step retrofit, the investment is spread over several years. In doing so, each component can be retrofitted when it has reached the end of its service life, maximizing the utility of the investment in energy efficiency.

As less money is required to complete an individual step rather than a complete retrofit, work can be started sooner to realize savings on energy bills sooner. The financial gains can be greater than the additional costs specific to the step by step retrofit process (e.g. setting up scaffolding several times).

Are there special products available for step by step renovation?

There is a manifold of Passive House components available on the market. Most can also be effectively used for retrofits. Some products can be used in an adapted form or as part of an

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Join weekly EuroPHit posts!

NOW FORUM




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

Upcoming Events

Int'l Passive House Conference
17-18 April, 2015

Int'l Passive House Days
13-15 November, 2015

Further Info

 Passive House Institute
 EuroPHit Forum
 iPHA The



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Forum – Get involved !

EuroPHit

FORUM
iPHA
Where Passive House stakeholders meet

Board index
User Control Panel (0 new messages) • View your posts
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

View unanswered posts • View unread posts • View new posts • View active topics
Mark forums read

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: alangi	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: alangi	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: alangi , ipha	5	17	by andre@passivehouse.ca Sun 14. Dec 2014, 08:56
iPHA Forum Committee The spot for the Forum Committee to exchange ideas! Moderators: alangi , 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

Board index
The team • Delete all board cookies • All times are UTC + 2 hours [DST]

PassREg EuroPHit
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Style by Marc Alexander ©



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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!

Join weekly EuroPHit posts!



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

EuroPHit

Moderator: eva.vahalova@passiv.de

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 jaster » Thu 19. Mar 2015, 02:07
Temporary EIFS connections by eva.vahalova@passiv.de » Tue 10. Feb 2015, 15:50	4	21	by jaster » 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 jaster » 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 jaster » 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

The screenshot shows the forum interface with a search bar and navigation options. The main content area displays a list of topics with columns for replies, views, and last post. A detailed view of a post is shown, including the title 'EuroPHit - Retrofitting for the energy revolution', the moderator's name, and a list of weekly topics with their respective dates and links to view the topics.



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PASSIVE HOUSE RESIDENTS WORLDWIDE OPEN THEIR HOMES:
International Passive House Days **13–15 November 2015**

Invitation Visit Passive House buildings or showcase your own project!

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- › Superior comfort
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- › For new builds and retrofits alike

Experience Passive House buildings first hand!

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- Architects show how it's done
- Residents share their experiences

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

Foto: Alexandra Lechner Photography

International **PASSIVE HOUSE** Association **IPHA**

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EuroPHit

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Your Case study and and observer project will be available to PH Days!

**Proof of event =
announcement, review,
photos, signed participant
list, presentation if given**



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19TH INTERNATIONAL PASSIVE HOUSE CONFERENCE 2015

Leipzig | Germany

17 - 18 April 2015

with exhibition and
framework programme



Including special sessions on step by step retrofits, EuroPHit project results, and more!

www.passivehouseconference.org

Project partners

EuroPHit

No.	Participant name	Short name	Country code	WP leader
1	Passive House Institute, Dr. Wolfgang Feist	PHI	DE	WP1/WP2/WP6
2	Zero Energy and Passivhaus Institute for Research	ZEPHIR	IT	
3	La Maison Passive	LaMP	FR	WP7
4	MosArt	MosArt	IE	WP3
5	Inštitút pre energeticky pasívne domy	iEPD	SK	WP5
6	Interessegrupp Passivhus Sverige AB,	IG PH	SE	
7	Plataforma de Edificacion Passivhaus,	PEP	ES	
8	Passivhus.dk ApS	PHDK	DK	
9	EnEffect Group	EnEffect	BG	
10	Atrea s.r.o.	Atrea	CZ	
11	Askeen S.r.l.	Askeen	IT	
12	Onyx Solar Energy, S.L.	ONYX	ES	
13	IzN Friedrichsdorfer Institut zur Nachhaltigkeit e.V.	IzN	DE	
14	Building Research Establishment	BRE	UK	WP4



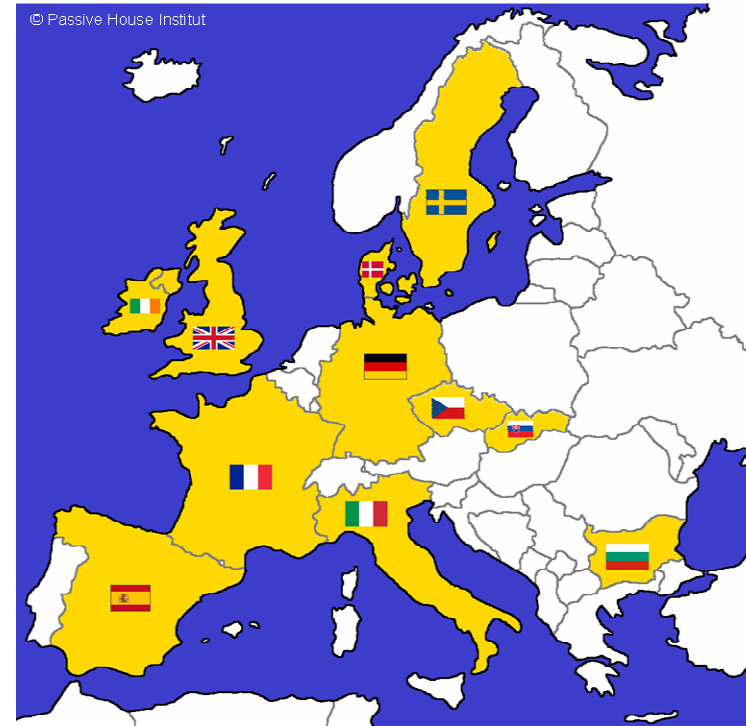
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Thank you for your attention

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