

“Front runners pave the way...”

**Promoting efficient building:
The PassREg principle in the Hanover Region**

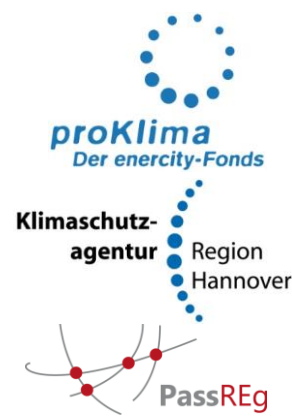
**Udo Scherer
Climate Protection Agency
Hanover Region**

**Matthias Wohlfahrt
proKlima- the enercity fund**

- 1. Introduction - Background Hanover**
- 2. Best Practice buildings**
- 3. Framework**

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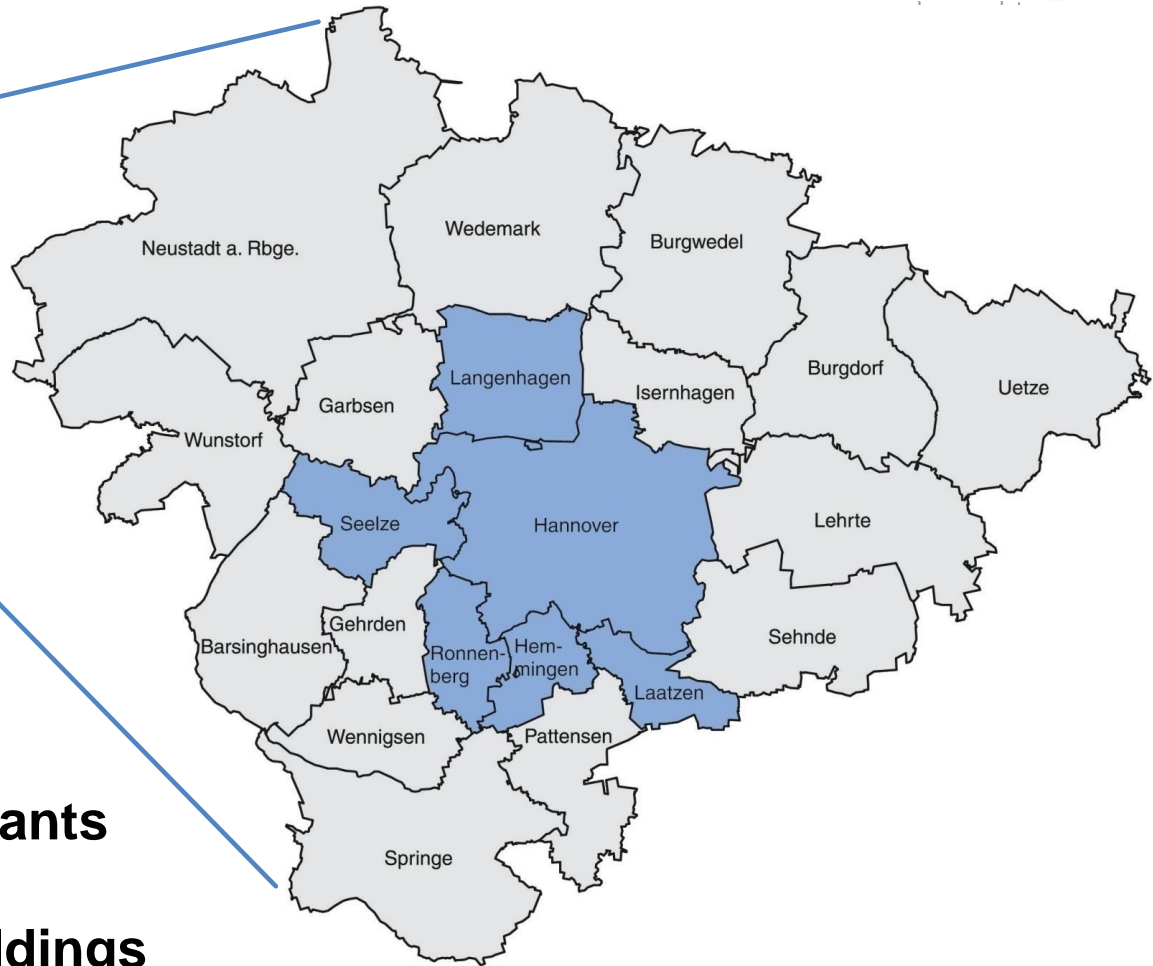
The PassREg principle



**The EU project PassREg strives to
“*Making frontrunners visible
and support followers.*”
at European level.**

**Hanover, a PassREg front runner,
still strives
at regional level...**

Region of Hanover



21 municipalities
1.2 million inhabitants
157.500 family houses
48.000 apartment buildings
49.757 companies

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Promoting efficient building: The PassREG principle in the Hanover Region

Fig.: www.bmvi.de/BMVBS, 2011

Milestones over the past 15 years

**Initial project:
First passive houses
Hannover-Kronsberg
(EXPO 2000)**

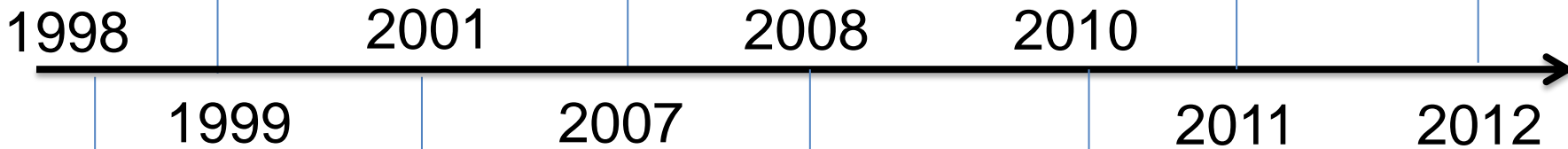


**Passive
House
Resolution
of the City
Council to
buildings in
municipal
influence**

**Region of
Hanover:
40 % CO2-
reduction
until 2020 on
level 1990**

**Masterplan
100%: Region
and City of
Hannover
95 % CO2-
reduction,
50 % energy
consumption
until 2050 on
level 1990**

**Start
zero:e-park
Hannover**



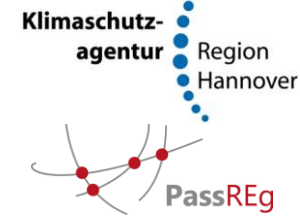
**proKlima GbR
with partnership
contract *proKlima*
established**

**Climate
Protection
Agency
Region
Hanover
established**

**Climate-Alliance
2020 Hanover:
40 % CO2-reduction
until 2020 on level
1990**

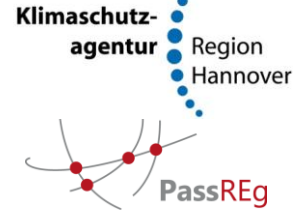


proKlima – partnership



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proKlima – main activities



funding



training



information

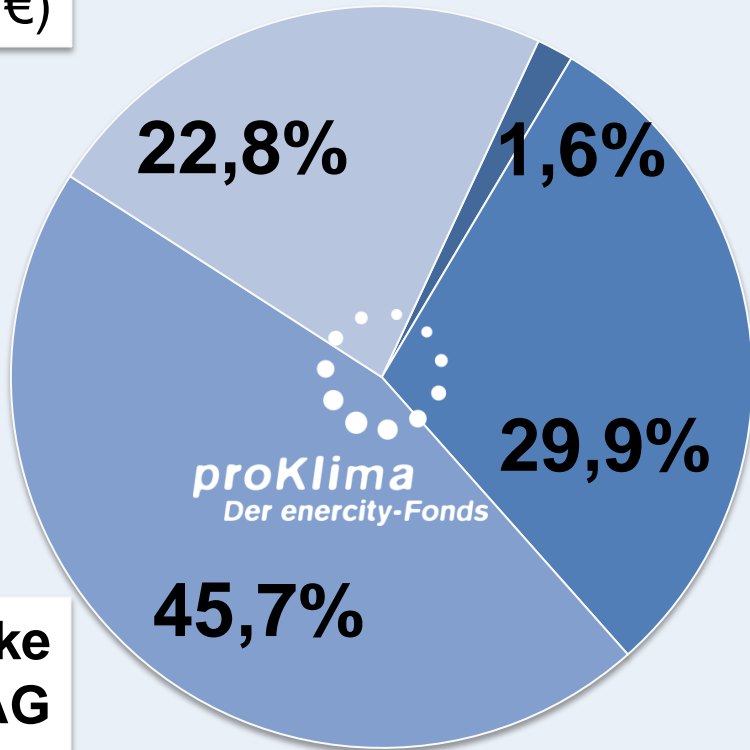
proKlima – financing model



4.4 M €/year*

City of Hannover
(3.25 %, max.1 M €)

Suburb-cities:
concession levy for
grid usage (2.5%)

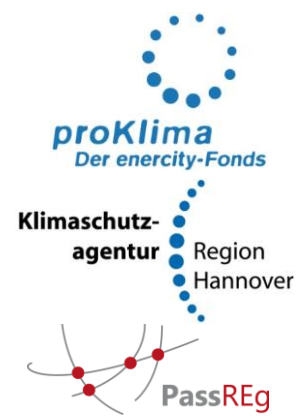


Stadtwerke Hannover AG profit sharing
(3.25 %, max. 2 M €)

Stadtwerke Hannover AG gas price component
(0.05 ct/kWh)

* in 2013

proKlima – efforts and statistics



Since **1998** more than...
24,000 projects for the “mass-market”

750 individual projects

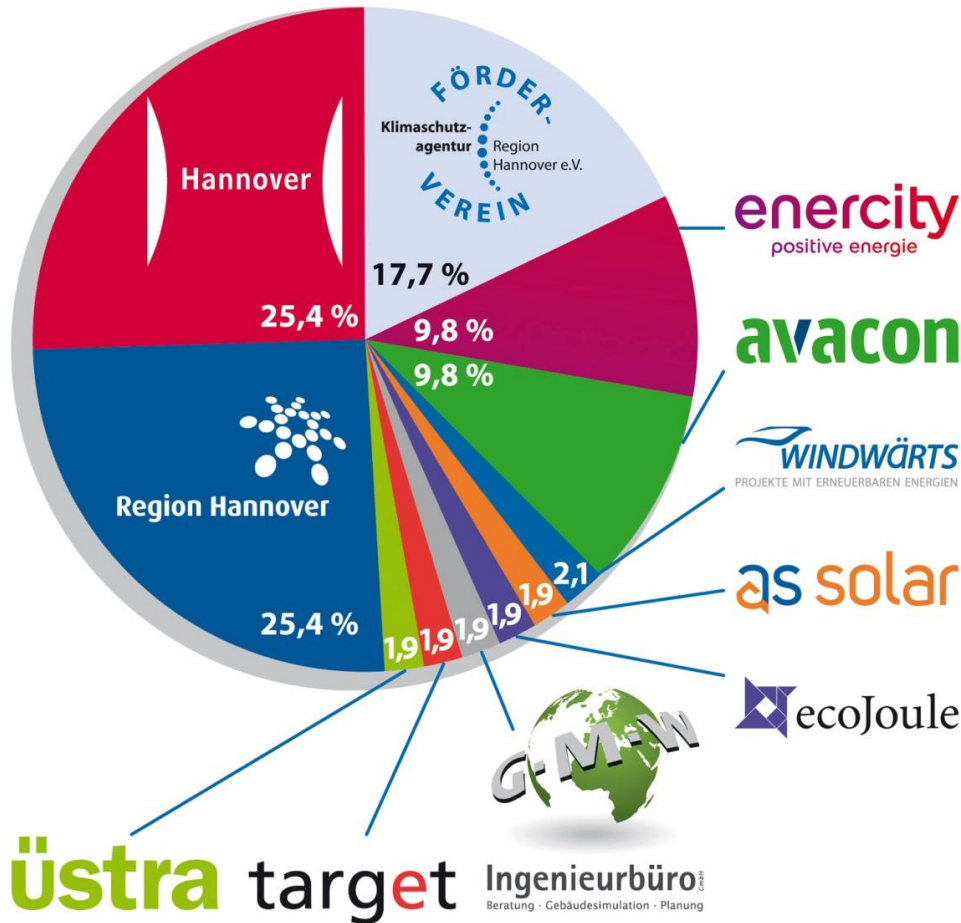
53 m € allocated

118,000 t CO₂/year

1 € proKlima support generates ~13 EUR local investments
(Pestel Institut 2012)



Climate Protection Agency Hannover Region



Non profit agency CPAH with Shareholder:

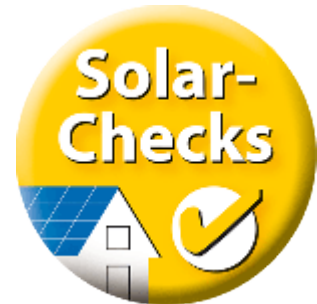
- municipal Hanover and Hanover Region
- Registered association of over 50 organisations and companies
- energy supplier/ grid operator
- renewable energy developer
- public transport company

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CPAH – social marketing campaigns

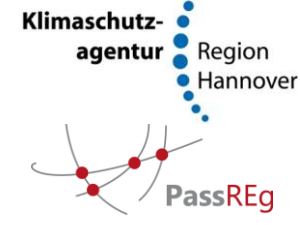


independent
information
and advice



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CPAH – Competition on climate protection

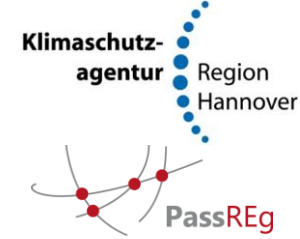


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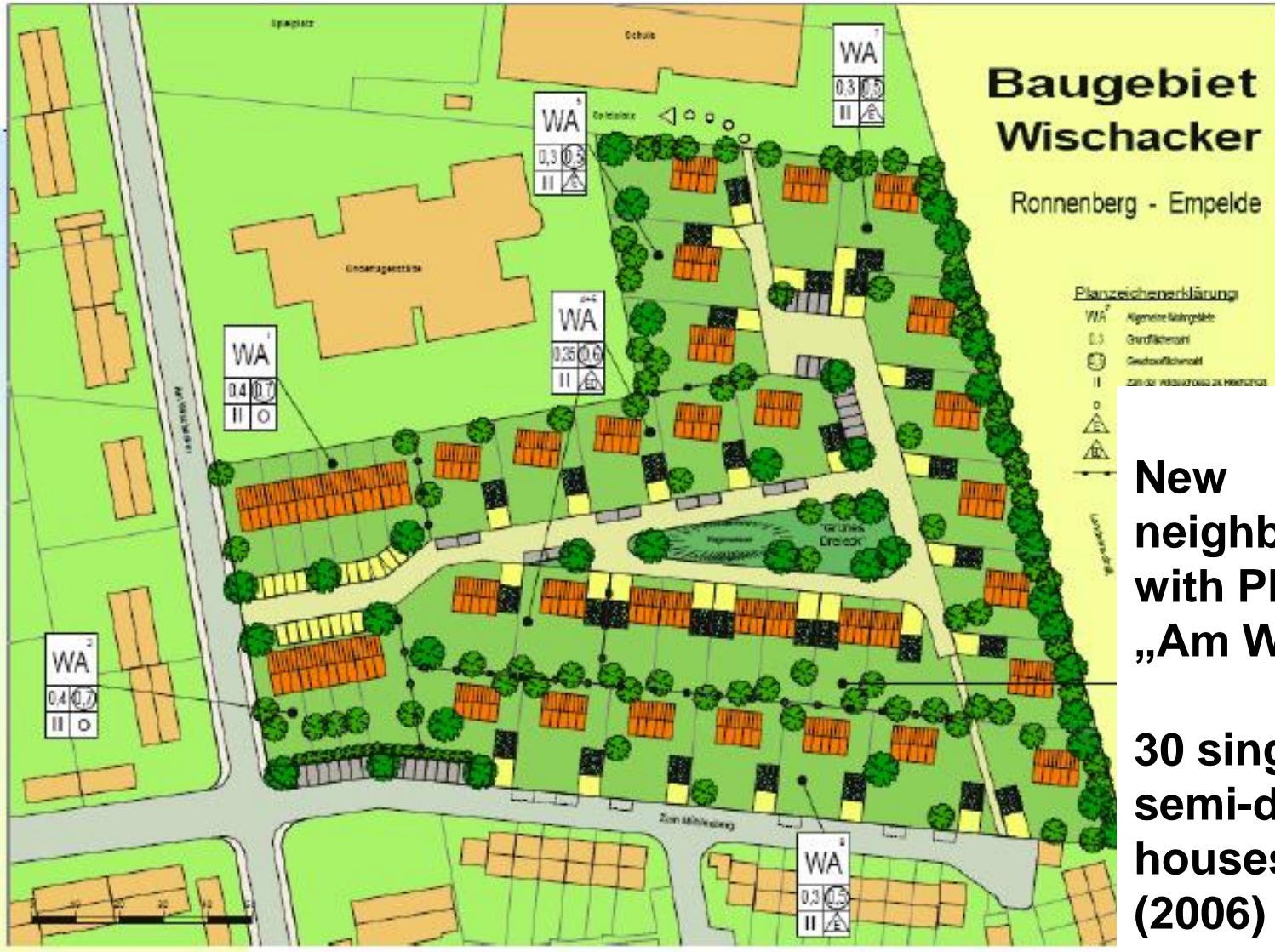
Front runner – First PH Hanover



32 row houses
Hanover-Kronsberg
1999
(EXPO 2000)

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Follower - Ronnenberg (Hanover Region)



**New
neighbourhood
with PH
„Am Wischacker“**

**30 single/
semi-detached
houses
(2006)**

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Fig.: City of Ronnenberg

Follower - zero:e park

PH neighbourhood with renewables

in Hannover-Wettbergen

more than 300 housing units & 1 supermarket

Start / end of sale

1. section: 2010/2012 (Plan End 2013)
2. section: 2012/2013 (Plan End 2017)
3. section: 2013/ ...? (Plan End 2021)



Front runner - Initial project Hanover

First PH Day: day care center

(Kita „Große Pranke“)

Hannover-Marienwerder 2006

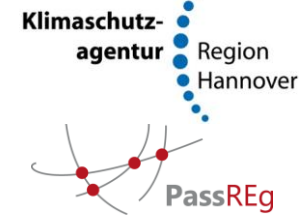
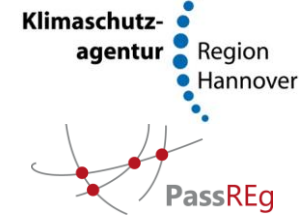


Foto: despang Architekten

Architects: despang, Hannover

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Follower - Hanover Region



PH Day Care Center Hemmingen- Arnum (2009)

Architects:
Carsten Grobe Passivhaus



PH Day Care Center Burgwedel-Thönse (2010)

Architects:
Carsten Grobe Passivhaus



Fotos: Carsten Grobe Passivhaus

Follower

PPP-Project

8 new PH- day care centers

Hanover (2011-2013)

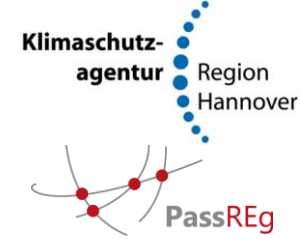


Fotos: Olaf Mahlstedt

Architects:
Ahrens Grabenhorst/Mosaik Architekten

Front runner - Initial project Hanover

REWE **supermarket**, zero:e-park Hannover (2012)



Fotos: proKlima/Olaf Mahlstedt

Architects: Spengler-Wiescholek, Hamburg

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Netto supermarket, Hanover (2014-2015)

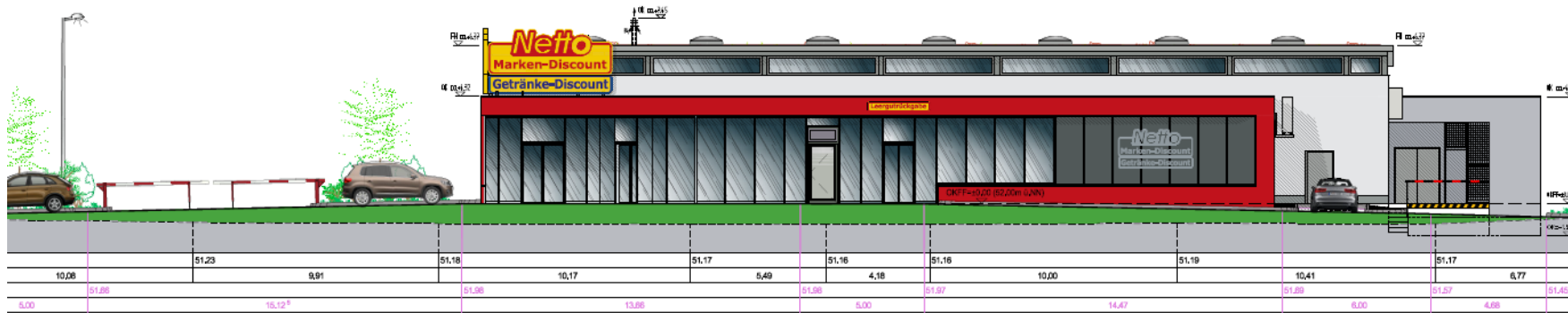


Fig.: Netto

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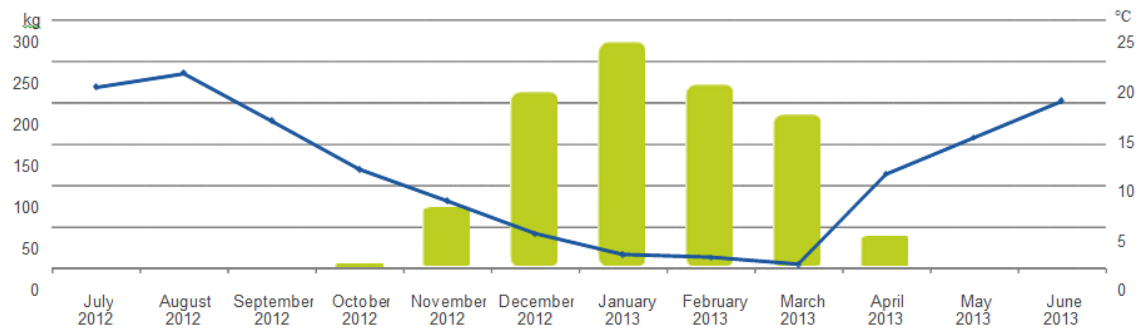
Quality assurance and monitoring

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Foto: CPAH

Monthly consumption of wood pellets and ambient air temperature (monthly average)



Consumption and net supply of PV-Electricity (monthly values)

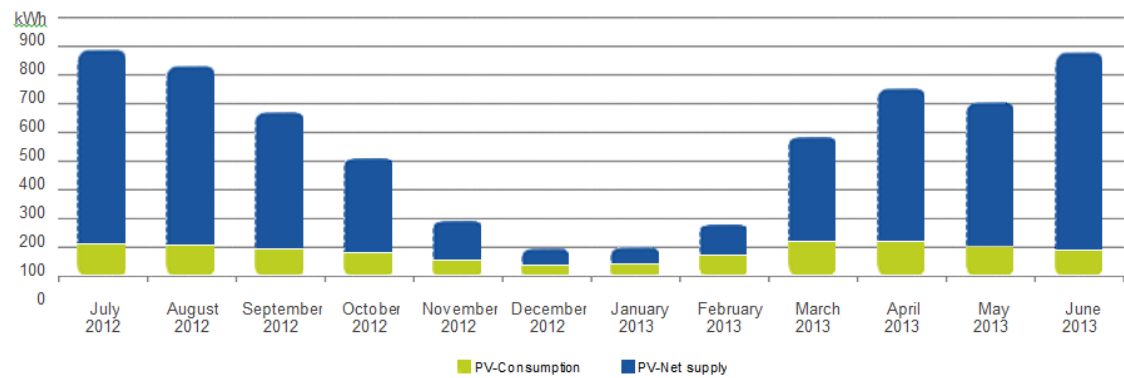


Fig.: voluntary monitoring programme for zero:e park- housing owners (proKlima)

Int. PH Days Region of Hanover

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EFH (Bj. 2004)
Fuhrenkamp 23
30851 Langenhagen
10.11.13, 13–16 Uhr
Vor Ort: Bewohner, Bauherr, Architekt
(Bitte anmelden unter Tel. 0511 437610-4)

EFH (Bj. 2012)
Feldbuschwend 55
30539 Hannover (Kronsberg)
10.11.13, 14–16 Uhr
Vor Ort: Bewohner

EFH (Bj. 2012)
Wittbusch 54, 30539 Hannover-Bemerode
8.11.13, 15–18 Uhr
9.11.13, 12–18 Uhr
10.11.13, 14–18 Uhr
Vor Ort: Bauherr (Bitte anmelden unter Tel. 0171 7673800)

EFH (Bj. 2011)
Vor der Hohnhorst 17
31275 Lehrte
10.11.13, 10–17 Uhr
Vor Ort: Bauherr, Bewohner
(Bitte anmelden unter Tel. 0179 2104557 oder janheinrich@gmx.net)

EFH (Bj. 2012)
Vor der Hohnhorst 35
31275 Lehrte
10.11.13, 14–17 Uhr
Vor Ort: Bewohner, Architekt

ZFH (Bj. 2013)
Berta-Makowski-Anger 9, 30453 Hannover-Ahlem
9.11.13, 14.30–17 Uhr
Vor Ort: Architekt

MFH mit drei WE (Bj. 1870/saniert 2007*)
Weidestr. 14, 30453 Hannover-Limmer
8.11.13, 15–17 Uhr
Vor Ort: Bewohner, Architekt

Umgenutzte Schule (Bj. 1961/saniert 2012*)
Denkmalgeschützte Gebäude der ehemaligen Sehbehindertenschule, 16 Wohneinheiten, drei Büros sowie eine Kinder- und Jugendbücherei, Nutzung nach Sanierung durch Baugruppe Südstadtschule Hannover
30171 Hannover
Führungen durch Berater
Jan Balkowski am 9.11.13:
10–12 Uhr Treffpunkt bei Eckert-Kurdt, Krausenstr. 10 A
13–15 Uhr Treffpunkt bei Neuhaus, Schlägerstraße 36 B
Vor Ort: Eigentümer, Berater

Umgenutzte Stallscheune (Bj. 19. Jhrd./saniert 2008*)
Vardegötzer Str. 10
30982 Pattensen-Jeinsen
8.11.13, 15–19 Uhr
9.11.13, 13–16 Uhr
10.11.13, 10–13 Uhr
Vor Ort: Bewohner

Energie- und Umweltzentrum (Altbau/saniert 2011)
Zum Energie- und Umweltzentrum 1
31832 Springe-Eldagsen
8. + 10.11.13, 14–17 Uhr
Vor Ort: Fachplaner Wilfried Walther

Mit Ausstellung „Auf dem Weg zum Passivhaus“

zero:e park-Infobox
Nullmissionssiedlung „In der Rehre“
30457 Hannover-Wettbergen
EFH (Bj. 2013)
Katharina-Behrend-Weg 4
2. Bauabschnitt
8.11.13, 14–16.30 Uhr
10.11.13, 13–16.30 Uhr
Vor Ort: Architekt

EFH (Bj. 2013)
Margarethe-Gehrig-Weg 5
2. Bauabschnitt
8.–10.11.13, 10–16 Uhr
Vor Ort: Bauherr

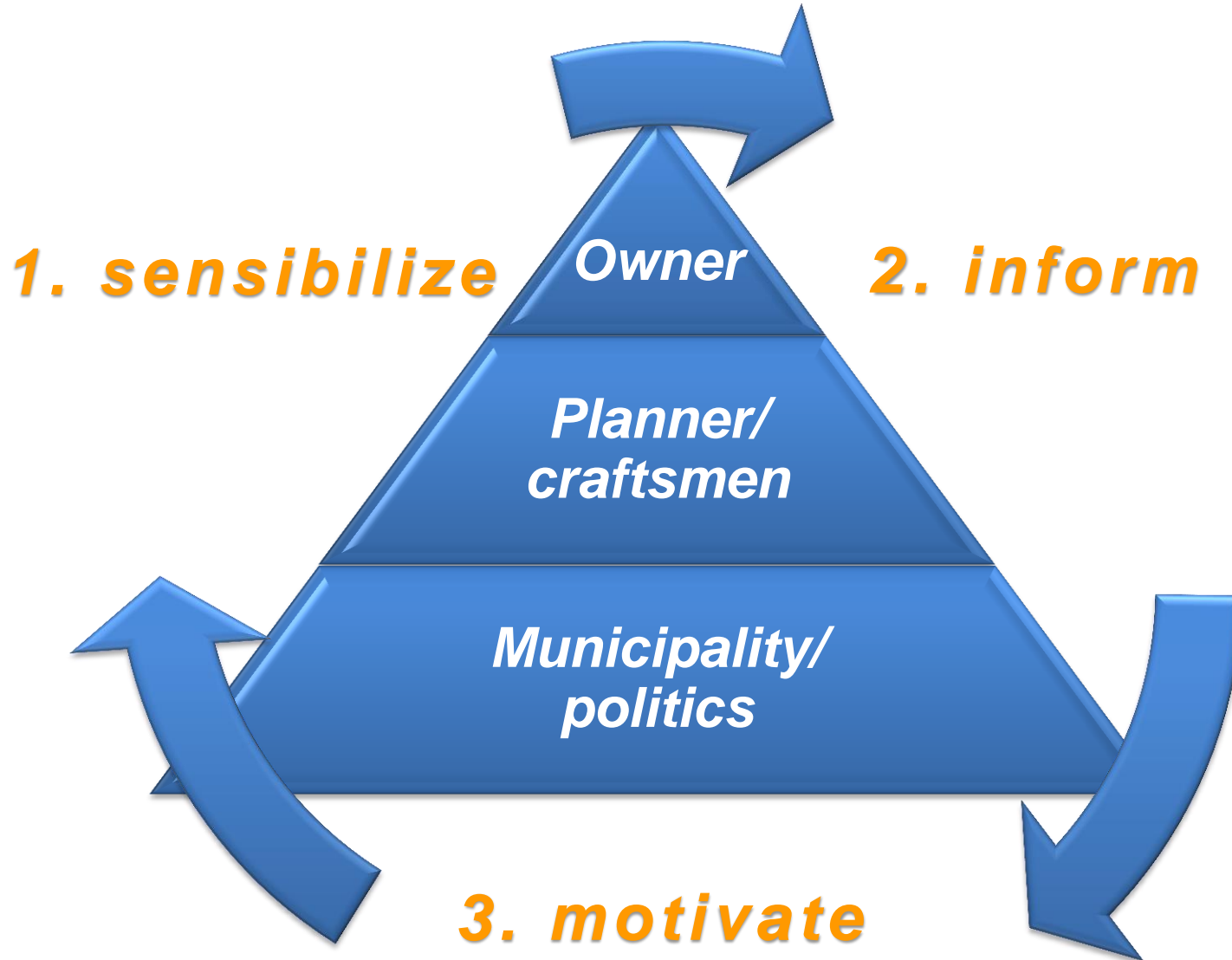
Musterhaus Fischer-Bau GmbH (Bj. 2012)
Hanna-Neuse-Str. 16
1. Bauabschnitt
8.11.13, 10–18 Uhr
9. + 10.11.13, 11–17 Uhr
Vor Ort: Verkaufleiter

Musterhaus CAL-Classic-Haus GmbH (Bj. 2013)
Margarethe-Gehrig-Weg 10
2. Bauabschnitt
8.11.13, 14–18 Uhr
9. + 10.11.13, 10–17 Uhr
Vor Ort: Architekt, Bauleiter, Berater, Geschäftsführer

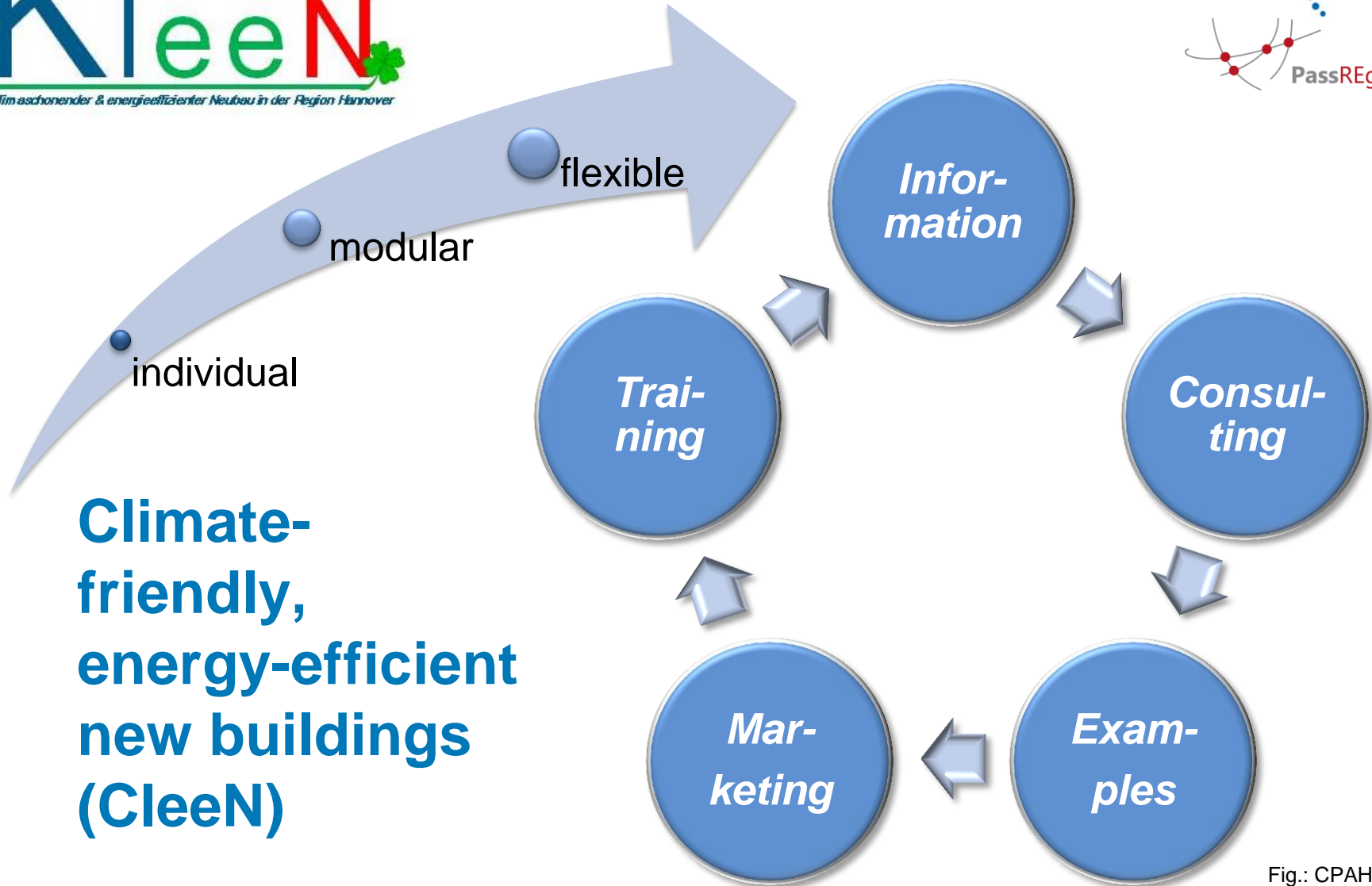
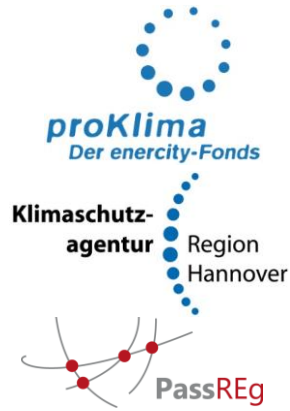
* Modernisiert mit Passivhauskomponenten
WE: Wohneinheit
MFH: Mehrfamilienhaus
ZFH: Zweifamilienhaus
EFH: Einfamilienhaus

Fig.: Int. Passive House days 2013 (CPAH)

Campaign-model for PH development



Campaign-model for PH development

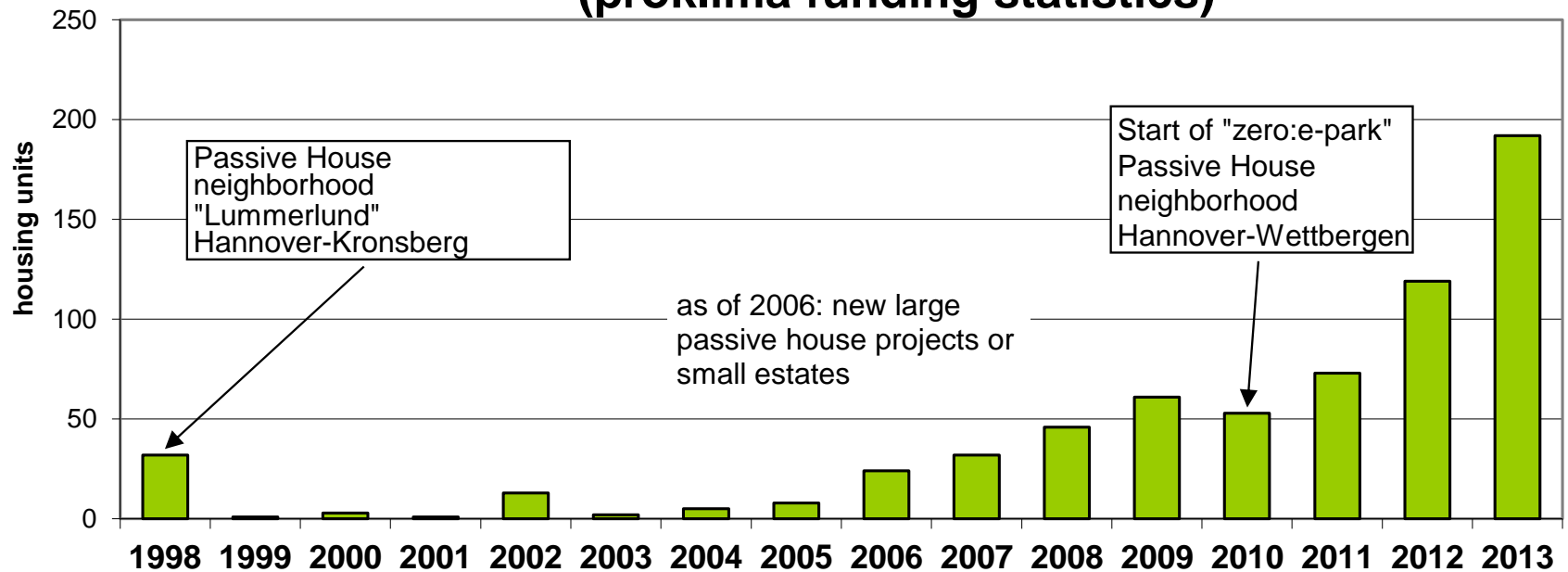


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Fig.: CPAH

From initial project to building stock

New Passive House housing units over the years (proklima funding statistics)



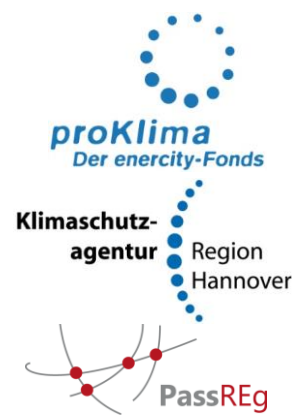
Conclusion

**“Front runners pave the way...”
...but it has to be:**

**quality proofed and monitored,
designated, published and
recognizable**

**sometimes also
guided and illuminated**

**then people will be interested to
follow it...**



Thank you for your attention!



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