

IEA Workshop on Energy Efficiency Indicators

Paris – 7th June 2012

Session 6:

Better Data to Improve Strength of Energy Efficiency Indicators

An Industry Perspective

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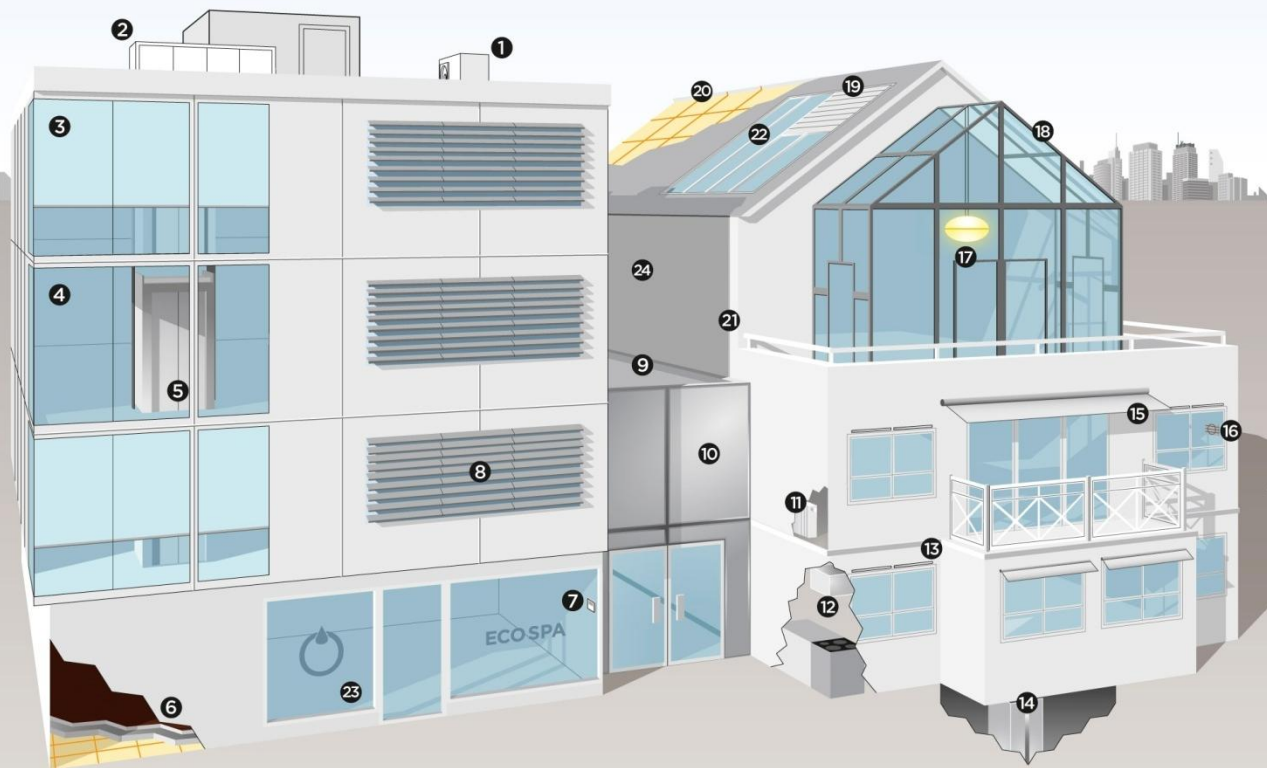
What is EuroACE?

- Europe's **leading companies** involved with the manufacture, distribution and installation of energy efficiency equipment and services in buildings
- Objective:
To promote **energy efficiency in buildings** on the EU political agenda, raise awareness, provide research data and communicate on available solutions and policies
- We believe that improving the energy efficiency of buildings is the most **cost-effective** (indeed zero/negative cost) method of:
 - ✓ Meeting carbon reduction targets
 - ✓ Achieving energy security
 - ✓ Creating employment and securing economic recovery

Who are its Members?

- Aereco
- BASF
- Bayer Materials Science
- Danfoss
- Johnson Controls
- Kingspan Insulated Panels
- Knauf Insulation
- NSG Group (Pilkington)
- Philips Lighting
- PU Europe
- Rockwool International
- Saint-Gobain Isover
- Solutia
- United Technologies
- URSA
- VELUX Group

Cross-Sector Representation



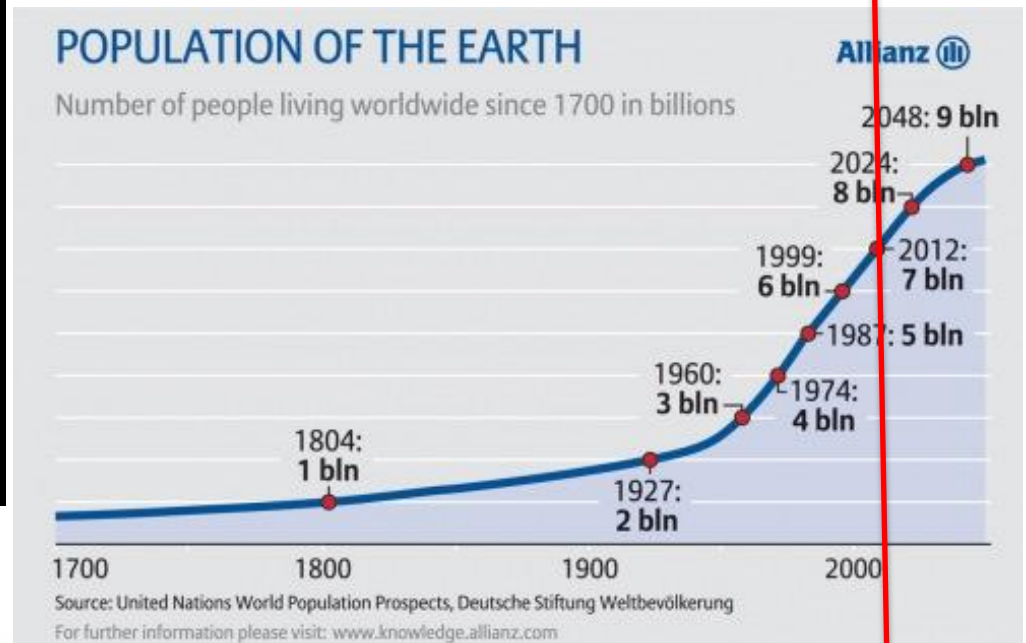
1. Air Cooled Chiller
2. Heat Pump
3. Automated Roller Blind
4. Glazing
5. Regenerative Drive Elevator
6. Floor Insulation
7. Heating Controls: Room Thermostat
8. Automated Exterior Venetian Blind
9. Insulation
10. Insulated Wall System
11. Heating Controls: Radiator Thermostat
12. Heat Recovery Ventilation
13. Humidity Sensitive Air Inlets
14. Heat Pump
15. Automated Roller Blind
16. Humidity Controlled Extract Unit
17. Lighting
18. Sunspace
19. Automated Awning
20. Insulation
21. Sealants
22. Roof Window
23. Solar-control/ Low E-window Film
24. Air Tightness Membrane

The Challenge



Plus:

Today



Equals:

The Result of Inaction:



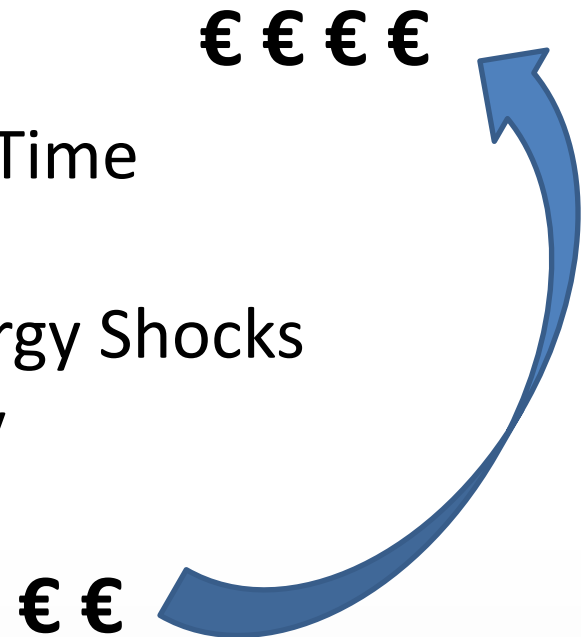
What was that bump?

Our Reality

Energy is Our Most Needed Resource

But in the EU:

- Steady Increase in Use Over Time
- Heavy Reliance on Imports
- Vulnerability to External Energy Shocks
- Costs Set to Rise Significantly



If someone said there
is an **energy source**
which offers all this...

A word cloud of various benefits, with words of different sizes and colors (purple, green, red, blue, brown) arranged in a circular pattern. The words include: fight climate change, no waste, education, save millions of Euros, less fuel poverty, innovation, enhance quality of life, sustainable employment, stimulate technology developments, inexhaustible, energy security, better health, safety, energy savings, reduced emissions, training, address social inequalities, and lower import bills.

fight climate change no waste
save millions of Euros education
lower import bills address social inequalities less fuel poverty
training enhance quality of life innovation
reduced emissions sustainable employment
stimulate technology developments
safety better health inexhaustible
energy savings energy security

...would you **support** it?

It Does Exist:

Energy Efficiency

The Reality for Buildings

EU Policy Falls Short of Adopted 2020 Targets

Energy Efficiency Directive Being Scuppered by Member State Opposition

Huge Economic and Social Benefits Risk Being Missed

Shortage of Adequate Information on Energy Efficiency to Change Mindsets

The Buildings Sector – Why?

In 2050:

- >90% of Today's Buildings will be Standing and Occupied

Therefore:

- Increase Renovation Rate to 3% per year
- Ensure all Renovations are Deep Energy Renovations
- Must Start Now!

The Buildings Sector – What Data?

Number of Buildings

Age of Buildings

Typology of Buildings

Percentage of Protected Structures

Current Energy Performance by:

Age, Typology, Location

Total Energy Consumed (primary and final)

Ownership Patterns

The Buildings Sector – What Data?

Performance Data Before and After Renovation

Innovative Financing Models

Best Practice Policy Packages

Behavioural Change Drivers

Benefits that Arise from EE in Buildings

Case Studies

Training Needs for the Building Sector

The Buildings Sector – How?

At National and/or Regional Level
Comparability Across the EU/Climate Zones

Standardised Methods of Measurement
Standardised Methods of Reporting
Agreed Sets of Metrics

Dissemination With/Through the Building Sector
Coordination of Efforts (e.g. industry/universities)

The Buildings Sector – Some Sources

The BPIE

e.g. Europe's Buildings under the Microscope 2011

The WBCSD

e.g. Energy Efficiency in Buildings Facts & Trends 2009

The IEA

The GBPN

EuroACE

EURIMA

And many others...

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