

UNFCCC

WORK PLAN ON ENHANCING MITIGATION AMBITION - TECHNICAL EXPERT MEETING

Session 2 Group B:

ACCELERATING IMPLEMENTATION OF SCALABLE, REPLICABLE AND TRANSFORMATIVE ACTIONS IN URBAN ENVIRONMENTS

Perspective of the private sector on ways to advance energy efficiency policies and actions

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VELUX Group

40

national sales companies
throughout the world

23

production sites
in 11 countries

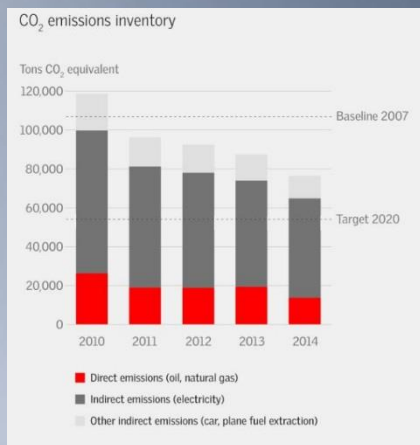
10,000

employees globally



Buildings of tomorrow - today

VELUX Group – own initiatives



50% reduction in CO₂ emissions by 2020 compared to 2007

The VELUX Group's CO₂ emissions is reduced by **29%** compared to our 2007 baseline.

Product development with positive CO₂ footprint

By optimized design and use, roof window provides net CO₂ savings over its complete life cycle.

- The CO₂ emissions from the raw material usage and the production of the window is lower than the CO₂ savings from passive solar heat gained from the use of the window.



21 Active Houses in 12 countries

Since 2005 the VELUX Group has participated in 21 full-scale demo houses

- It is possible to build affordable and nearly-zero-energy buildings with a good indoor climate by using methods, standard materials and technologies that are available today.
- Controlled natural ventilation is an integral part of healthy and sustainable buildings.
- Building design with plenty of natural daylight is highly valued by end-users for its pleasant indoor comfort and energy saving.

CO₂ savings over the lifetime of a VELUX roof window



VELUX Group

- 21 projects in 12 countries



01 Torzhkovskaya Street, St. Petersburg



12 Osram Culture Center, Copenhagen



02 Soltag, Copenhagen



13 Guldberg School, Copenhagen



03 Átika, Bilbao



14 Albertslund Solar Prism, Albertslund



04 VELUXlab, Milan



15 Russian Active House, Moscow



05 VELUX House, COP15, Copenhagen



16 Solhuset, Hørsholm



06 Home for Life, Århus



17 ISOBO aktiv, Stavanger



07 Green Lighthouse, Copenhagen



18 Future Active House, Trondheim



08 Sunlighthouse, Vienna



19 Smith Residence, St. Louis



09 Hamburg LichtAktiv Haus, Hamburg



20 De Poorters, Montfoort



10 Maison Air et Lumiere, Paris



21 Great Gulf Active House, Toronto



11 CarbonLight Homes, Kettering

10
Years of experiments

21
Projects, and counting



Research shows: Health must be prioritized in combination with energy



80 million

Europeans live in damp and unhealthy homes



of society's total energy consumption is accounted for by buildings



A damp and unhealthy home nearly

doubles the risk of asthma



37% of the needs of the buildings sector rely on energy imports

61% of all imported gas goes to buildings

90% of our time is spent **indoor**

1/3

Of European households are affected by asthma or allergies



In 2012, EU Member States collectively spent

€421bn

on energy imports

Accelerate energy efficiency building policies and actions by:



The potential for reduction in CO₂ emissions from buildings, is 70-90% compared to 2010 [Source: BPIE]

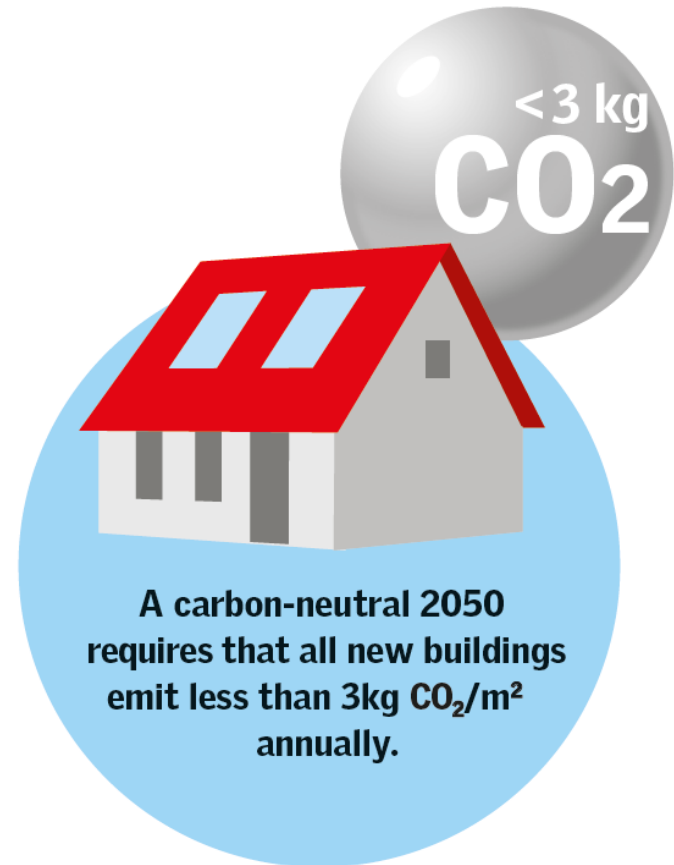
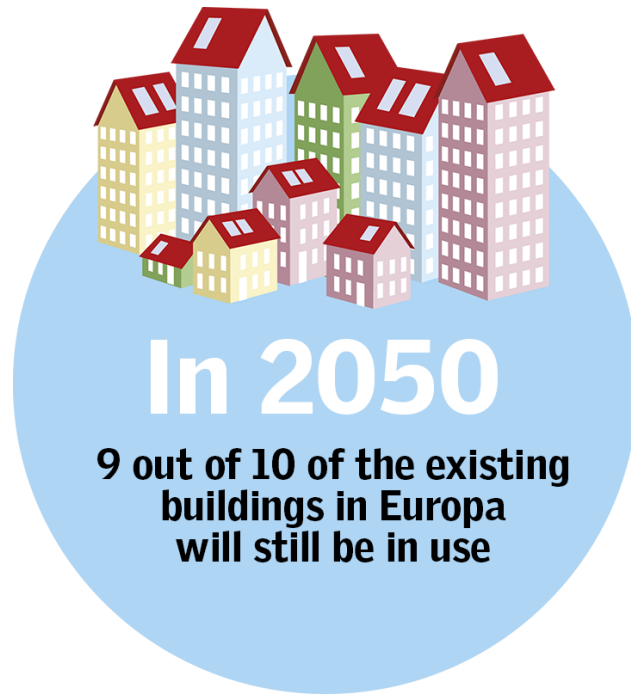


Unlock the potential by short, medium and long term national strategies, giving the industry and sector a platform for innovation and business development



Make renovation attractive for citizens and society by focusing on the value for people working and living in buildings and by parallel ambition to energy savings, indoor climate and comfort.

Buildings is a major part of the 2050 solution



The knowledge and technologies are available, and by cooperation between authorities and industry, we can unlock the potential in buildings

Bringing light to life™

