PRESS RELEASE

21-04-49

07 April 2021

Special show „Green Deal“ at Fensterbau Frontale 2022

Special show "Green Deal" – CO_2 efficiency and protection against climate extremes with sustainable windows and building elements

CO_2 efficiency and protection against climate consequences with sustainable windows and building elements

Climate change is here. It is no longer a matter of limiting climate change through energy-efficient and sustainable building products and technology, but also of protecting ourselves from future climate extremes. The building sector is bringing up the rear when it comes to achieving Germany's climate targets. Politicians know this, too, so that building components and materials will have to meet higher energy efficiency and sustainability requirements in the future. Otherwise, there is a threat of penalty payments to the EU amounting to billions. At the same time, the CO2 footprint of building products is coming more into focus, because the "grey energy" for new buildings and building elements can no longer be neglected. Interested companies are invited to present their innovative products and services as co-exhibitors at the special show "Green Deal - CO_2 efficiency and protection against climate extremes with sustainable windows and building elements".

Nuremberg, 29 March - 1 April 2022, World's Leading Trade Fair FENSTERBAU FRONTALE in Hall 1 (1-515)

The damage caused by climate change and the resulting costs are constantly increasing, and the targets of European climate policy can only be achieved through radical savings. The necessary measures must focus much more strongly than before on the building sector, because this is where about 40 % of CO2 emissions originate, and achieving the sectoral reduction of emissions is still a long way off.

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The great potential in the fight against climate change could be found in the energy refurbishment of existing buildings. According to analyses by the associations VFF and BF, over 250 million old window units with glass without a low-E coating are waiting to be replaced. This could save more than 14 million tonnes of CO_2 annually. That would be 50 % of the 28 million tonnes that would be necessary, according to dena (Deutsche Energie-Agentur GmbH), to achieve the Climate Protection Plan 2030 for the building sector.

For this, politicians must develop instruments such as a replacement obligation, stricter energy requirements and attractive subsidy programmes. In this context, however, the CO_2 footprint of building products is coming more into focus, because the "grey energy" for the construction of new buildings has a large share and cannot not be neglected. Politicians are also aware of this, so that building elements and building materials must become more CO_2-efficient and should have higher proportions of renewable raw materials and recycled materials. In addition, protection against climate extremes must also be considered. Building elements must therefore protect against heat waves, floods, hurricanes, but also against unexpected cold spells with large amounts of snow.

In consequence there are great opportunities for windows, doors, façades, sun protection, decentralised ventilation systems and other building elements and materials. The following topics will therefore be presented at the "Green Deal" special show:

1. reduction of CO_2 emissions and improvement of the energy efficiency of building materials, building elements and buildings,
2. products made from renewable raw materials and a high proportion of recycled materials,
3. technologies to simplify energy-related renovation (serial refurbishment/energy-sprong principle),
4. products and constructions that improve sustainability in accordance with the "cradle to cradle" principle and with good maintenance, care and disposal concepts,
5. green facades to improve air quality and microclimate,
6. adaptive solar shading systems that protect against heat waves and reduce the energy consumption of air-conditioning units,
7. protection and resilience against climate extremes such as floods, tornadoes and hailstorms,
8. decentralised ventilation systems for night cooling and natural fresh air supply with minimal energy consumption,
9. digital control systems to minimise CO_2 emissions and improve living comfort,
10. surfaces that do not heat up so much when exposed to solar radiation and thus protect the building elements from damage.

Companies can apply with innovative products and services for a presentation as co-exhibitor at the special show "Green Deal" by ift Rosenheim and NürnbergMesse.

4.260 total characters incl. spaces (lead 1.070, press release 3.190 incl. spaces)

Keywords: CO_2-Footprint, Serial renovation, resilience against climate extremes, climate targets, building renovation, window replacement, CO_2 label, façade greening

Pictures (available to download from the picture library at www.ift-rosenheim.de/bildarchiv)

The stock photos may only be used in the context of the publication of this press release and under mention of the author.

No.	Image title and file name	Image
1	Special show "Green Deal" – CO_2 efficiency and protection against climate extremes with sustainable windows and building elements (Source: ift Rosenheim, Fotolia/Kwest)) *File name:* PI210449_Fig_1.jpg	
2	Building elements must provide better protection against climate extremes in the future (Source: Pixabay) *File name:* PI210449_Fig_2_climate_extremes	
3	Information on the evaluation of sustainable criteria of different certification systems (Source: ift Rosenheim) *File name:* PI210449_Fig_3_sustainability.jpg	

Info about ift Rosenheim (for the technical press)

ift Rosenheim is a notified European testing, surveillance and certification body with international accreditation, according to DIN EN ISO/IEC 17025. The core activities at ift Rosenheim include practical, holistic and fast testing and assessment of all characteristics of windows, facades, doors, gates, glazing and construction materials as well as personal safety equipment PPE (breathing masks etc.). Its goals include sustainable improvement of product quality, design, and technology as well as work on standardisation and research. Certification by ift Rosenheim assures you of acceptance all over Europe. At ift, we are committed to providing knowledge and as an unbiased institution, ift Rosenheim enjoys a special status with the media – the publications document the current state-of-the-art technology. (815 characters incl. spaces)

Info about ift Rosenheim (for the public press)

You need skills, technology and experience for good structures, and this is especially applicable to windows, facades and doors. Since 1996, ift Rosenheim has been supporting the industry as a neutral scientific institute with technical services and more than 230 employees. These include conducting tests and research, certification and quality management as well as standardisation, advanced education and technical information. In this manner, ift Rosenheim is promoting the development of quality products that are suitable for use, environment-friendly and efficient, and which make life more comfortable, more secure and safer, and healthier.
(648 characters incl. spaces)

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