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FEBRUARY



Climate neutral living in the city.box show house in Memmingen near Munich

The city.box is a minimalist smart home that covers the entire electricity needs of a renewable energy household. It combines state-of-the-art insulation methods with an intelligent solar system. This technology is unique and pays the highest respect to nature. The concept is scalable, weatherproof and not bound to specific climate zones.

The newly developed air-conditioning systems are so perfectly matched to the 27cm thick solid outer shell that thermal insulation with the storage capacity of climate change leads to unprecedented synergies, providing free heating, cooling, ventilation and all the electricity for the house and still allowing the electricity for 50,000 km of driving in a mid-range e-car. This is made possible by **installing 48 Almaden double-glass**

modules on the facades and balcony, and 32 more on the roof. On the rainproof roof terrace, fruit and vegetables can be planted in beds. With the heat exchangers, the roof can be kept free of snow, or heated for open-air parties via the glass hipped roof.



The interiors are so flexible by multifunctional furniture that 4 spacious rooms can be simulated. Free areas for sports, leisure and celebrations of 30 sqm remain usable depending on the room simulation. This is more than most 100+qm apartments offer.

The performance of the PV system is overwhelming: In June 2019, 1.3 MWh surplus was produced and even in the dull November, 300,000 kWh were still produced.

Almaden Modules and rainproof fixing applied by GridParity AG.

Further information is available at: www.city.box.solar



Image material provided by **city.box Schnellbau GmbH, Germany**



PV Solar fence

The total height of the bifacial fencing system and the PV balcony installation can be modified. The standard height is 1.50 to 1.80 m for single row and up to 3 m for double row installations.

The bifacial solar fence adapts to almost any type of terrain and can be quickly installed on the surface with only a few screw connections.

The anodised surfaces of the aluminium constructions offer protection against all weather conditions. The proven and stable mounting frames (anodised aluminium profiles optimised for stability) are equally suitable for installation on balconies, as the picture below left impressively demonstrates.

Various options are available for the foundations, depending on the substrate.

Driven steel profiles form a cost-effective foundation. Drilling and concrete foundations are equally possible - as an adaptation to local conditions.



Carport facility with bifacial modules in Lille, France

We were able to demonstrate the aesthetics of wood as a natural and versatile material with our system installed in Lille at the beginning of February. 14 parking spaces were covered with 7 double PV-carports.

The wooden parts were made of construction solid wood (KVR) on a modern Trimming machine with tenons on one side and grooves on the other side.

These were then painted 3 times to provide protection against worm infestation, fungi, UV light and moisture.

The kits were then simply plugged together and screwed as required.

Due to the professionally applied protection, the solid wooden parts are almost indestructible. GridParity therefore gives a guarantee of 25 years on the durability of the construction.

For the PV system, 105 semi-transparent B60 Almaden Bifacial Modules with 310 Wp were screwed waterproof onto the wooden beams.

The connected load is 32.6 Wp.





GridParity at PV conference in Kiev, Ukraine

The conferences organized by the German Chambers of Foreign Trade provide an interesting platform for innovative German companies to meet potential partners in the target country. Such a conference also took place in Kiev/Ukraine from 28-31.01.2020. Dr. Merkle was the only speaker to present the focus on solar energy in Ukraine. The presentations was received with great interest. Directly after the presentation, first interesting business contacts could be generated.



Renewable energies and in particular solar energy „Made in Germany“ are very much in demand in this country, which has developed well economically since the political turnaround in 2019. On 28 January, Dr. Merkle explained the know-how and the central advantages of the products and services of GridParity AG to a very interested specialist audience consisting of representatives from business and politics. On the following days, individually organised business partner meetings were held.



Valentines day offer* valid in the whole month of February!

Just in time for Valentine’s Day on February, 14th. we offer you a **special discount** on the purchase of a carport or terrace kit!
Ask us directly for your special offer.



*This offer is valid for orders until **29 February 2020 with a minimum order**. Ask for more information.
Ex works Karlsfeld near Munich, GERMANY



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