



Dubai Sustainable City claims first net zero carbon building

By [Zenuzz](#)

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[The Sustainable City](#) in Dubai is developing what it claims will be the world's first net zero carbon building.

The 50,000 sq ft building will be home to [SEE Institute](#), the sustainability research, development, and professional training arm of Diamond Developers. The state-of-the-art building is unveiled at WETEX & Dubai Solar Show, the annual trade exhibition organised by Dubai Electricity and Water Authority (DEWA) in [Expo 2020](#), which recently opened and is running until next March.

The building will be offsetting all its embodied carbon emissions from construction & interiors prior to operations, based on "a credible offset scheme".

The building will also produce its operational energy requirements through renewable sources including solar panels and a biogas plant handling organic waste from TSC.

From this, 100% will cover the operational energy and 150% will offset emissions from commuting employees, water desalination, and consumable products that operate the Institute. The remaining 50% will enable the building to become carbon positive.

By exporting this surplus of energy to surrounding buildings and facilities, The Sustainable City will be setting a new precedent in transforming buildings from being pollutant, energy consumers into environmentally friendly, energy generators.

[Faris Saeed](#), CEO of Diamond Developers said: “The Institute’s purpose is to accelerate climate action through education, R&D, business incubation, events and conferences. Through targeted collaborations with partners, academic and government entities, we aim to inspire others by sharing knowledge and expertise to ensure a better tomorrow for generations to come.”

The new building will be dedicated to the advancement of sustainability knowledge, technology and innovations through research, training, events and incubation of tech start-ups working on solutions promoting social, environmental and economic sustainability. Completion is expected in the next few months.

More net zero developments are taking shape, such as this major [21,000-home project](#) in California, and many net-zero retrofit projects underway, such as [this one in Glasgow](#), while [NetZero Buildings](#) is developing ‘carbon positive’ schools and energy-efficient off-site manufactured buildings.

Sustainability is one of the key themes of EXPO 2020 and The Malaysia Pavilion, based on the concept of a rainforest canopy, is billed as a ‘net zero carbon initiative’.