School energy storage copenhagen

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CIS Nordhavn is a new school building for the Copenhagen International School, located in a prominent position in Copenhagen"s North Port. The main school building is subdivided into four smaller towers, each specially adapted to meet the needs of children at different stages of development. 12 000 solar panels cover the school"s facades from the first floor upwards. Each 70 x 70 cm solar photovoltaic module is angled in different directions to create a varied surface.

In terms of the school facilties, the classrooms for the youngest pupils are particularly large. A full range of functions will take place in and around the classroom, each of which has designated green spaces and areas with drama/performance facilities, physical education, etc.

The four towers each have from five to seven storeys. All four school units are built on top of the ground-floor base, which includes a foyer, sports facilities, a canteen, library and performance facilities. These common areas will be open for school and local community events.

The school"s 12 000 solar panels are designed to supply almost half of the school"s annual electricity consumption. It is the largest building-integrated photovoltaic (BIPV) installation in Europe, adding up to approximately 6 000 m2 of solar cells in total, with a corresponding 720 kWp capacity.

CIS is a good example of the "Prosumer" building of the future. With approximately 39% of the total electricity consumption covered by the solar cells, CIS is a good example of a low-energy building, which also has a good score with regard to the Danish AktivHus labeling system.

Courtesy of Kromatix(TM) SA

The Copenhagen International School’s (CIS) new building is covered by approximately 12,000 solar panels (6,048 sqm)using Kromatix™ blue-green solar glass, integrating the building and the surrounding ocean. It is one of the largest building-integrated solar power plants in the world.

The 12,000 colored solar panels, produced in collaboration with Solvisand designed and installed by SolarLAB,really make CIS’s new building stand out. The 0.72 x 0.70 meter panels are linked in series of 6 and completely cover the building meeting over half of the school’s expected energy needs.

The Danish architecture firm C F Møller has won the 2017 Iconic Awards in the category for ‘Architecture with distinction’ for their design of the new CIS.The Iconic Awards is a recognized international competition for architects, designers, and the building and industrial sectors that recognizes visionary architecture, innovative products and sustainable communication within five main categories.

ICONIC Award - Architecture, 2017

Blueprint Award finalist, Best Public Use Project (Private Funding), 2017

Årets Byggeri - hædrende omtale, 2017 (Building of the Year, Honorary Mention)

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