

European Solar and Energy Storage Solutions

Iceland powerhouse kjørbo

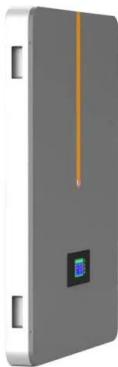


Iceland powerhouse kjørbo



Powerhouse Kjørbo

Powerhouse Kjørbo, outside Oslo, produces twice as much energy as its operation uses. Solar cells on the roof - Recycled materials - Super insulated and air-tight envelope - Energy efficient windows - Energy efficient ventilation ...



Powerhouse Kjørbo

Kjørbo is situated by the seafront in Sandvika in Bærum municipality outside of Oslo, Norway. The

Powerhouse Kjørbo, Sandvika

Powerhouse Kjørbo in Sandvika outside of Oslo opened in April 2014 and is the first finished project of the Powerhouse collaboration. Two office buildings from the early 1980s have been refurbished, reducing their energy use by 90 percent. The solar panels on the roofs can produce more than 200 000 kWh per year - twice the amount needed to



Powerhouse Kjørbo

Kjørbo is situated by the seafront in Sandvika in Bærum municipality outside of Oslo, Norway. The two renovated buildings were originally built in 1980 and each cover approximately 2 600 m². Together they had an energy consumption of 250kWh per square meter annually.

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Taking a Life-Cycle Approach to Positive Energy Buildings

The Powerhouse Kjørbo project focused on the renovation of two office buildings that were originally constructed in 1979. The PEB is located in the municipality of Bærum in the east of ...

Powerhouse Kjørbo, Bærum

Powerhouse Kjørbo, Bærum Snøhetta . Tipología Comercial / Oficina ; Fecha 2012 - 2014; Viak y la firma de administración de propiedades Entra Eiendom con el objetivo de renovar un conjunto de oficinas en Kjørbo, una localidad marítima de la ...



Powerhouse Kjørbo, Sandvika

Powerhouse Kjørbo, Sandvika. Powerhouse Kjørbo is an office building that is in early design phase Location: Sandvika, Oslo, Norway Size; Two block buildings with 5 000 m² heated floor area Developer: Entra Eiendom Architect: Snøhetta ZEB-partners involved: Skanska, Snøhetta, Hydro Level of ambition: ZEB-COM+EQ . Illustration: Snøhetta/MIR

Powerhouse Kjørbo , Sandvika, Norway , Hello Energy ESG ...

Introducing Powerhouse Kjørbo - the architectural marvel just outside Oslo that's rewriting the sustainability playbook! ? Formerly two '80s office blocks, this powerhouse has undergone a sophisticated transformation led by brilliant, hard working people. This cutting-edge space isn't just a building; it's the first energy-positive Powerhouse in Norway.



Powerhouse Kjørbo, Bærum

Powerhouse Kjørbo, Bærum Snøhetta . Tipo Comercial / Oficina ; Fecha 2012 - 2014; Viak y la firma de administración de propiedades Entra Eiendom con el objetivo de renovar un conjunto de oficinas en Kjørbo, una localidad marítima ...

Powerhouse Kjørbo, Sandvika

Powerhouse Kjørbo is the first renovated office building in the world that produces more energy than it consumes. It contains two office blocks from the 80'ties, which were transformed into contemporary and modern office premises. With the use of solar panels, Powerhouse Kjørbo produces more than 200,000 kWh annually.



Taking a Life-Cycle Approach to Positive Energy Buildings

The Powerhouse Kjørbo project focused on the renovation of two office buildings that were originally constructed in 1979. The PEB is located in the municipality of Bærum in the east of Oslo,

Norway. The project was initiated by the Powerhouse alliance in 2009 and was completed in 2014. The office buildings



Powerhouse Kjørbo - Norway

The Powerhouse concept was first launched in 2011. The proposal for the first Powerhouse project, a new office building in Trondheim, was presented in 2012. The Powerhouse Kjørbo is the first renovation project of the Alliance.

-Powerhouse, criteria of the energy goal In order to fulfill the declared goal of the



Powerhouse Kjoerbo , NORPLAN

Powerhouse Kjoerboe is the world first rehabilitated pluss-house. This implies that it over its expected timespan of 60 years will produce more renewable energy than it consumes, including the production of material and rehabilitation. The Powerhouse Kjørbo produces over 200 000 kWh electricity annually. The building has been given BREEAM

Powerhouse Kjørbo

Located just outside Oslo in Sandvika, Norway the very first Powerhouse, Powerhouse Kjørbo is situated. The two joint-together office blocks from the 1980s are upgraded to energy-positive and modern offices, which means that over its lifetime the ...

LIQUID COOLING ENERGY STORAGE SYSTEM

EMS real-time monitoring
No container design
flexible site layout



Cycle Life **≥ 8000** Nominal Energy **200kwh** IP Grade **IP55**

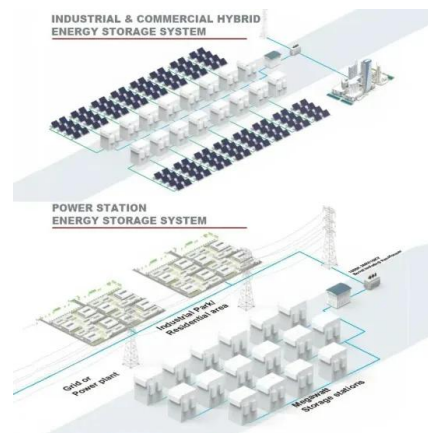


Powerhouse Kjørbo

This is the case for Powerhouse Kjørbo, where a total rehabilitation of the two first office buildings has resulted in Norway's first energy-positive office building, and probably also the first renovated energy-positive building in the world. After the renovation, the buildings' energy need has been reduced by more than 86 percent.

Taking a Life-Cycle Approach to Positive Energy Buildings

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Powerhouse Kjørbo

Transforming buildings from energy consumers to renewable energy producers was a challenge taken seriously by the Powerhouse alliance. This consortium developed the 'Powerhouse model' that compensates for energy use in all phases of the building's life: material production, construction, operation and demolition.

Powerhouse Kjørbo, Bærum

Powerhouse Kjørbo is the first project that the Powerhouse cooperation has completed, and the first time a building has being rehabilitated as a plus house. The method can easily be transferred to other office buildings. You can also read about Powerhouse Kjørbo in the booklet "T hink twice before demolishing."



Powerhouse Kjørbo

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Powerhouse Kjørbo

Powerhouse Kjørbo, outside Oslo, produces twice as much energy as its operation uses. Solar cells on the roof - Recycled materials - Super insulated and air-tight envelope - Energy efficient windows - Energy efficient ventilation - Thermal mass - Geothermal heating/cooling and letting in the maximum amount of daylight.



Powerhouse Kjørbo

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Powerhouse Kjørbo, Sandvika

Fakta om Powerhouse Kjørbo: Kjørbo ligger ved vannet i Sandvika i Bærum kommune og Entra Eiendom eier kontorbyggene på området. Hvert av de to planlagte rehabiliterte byggene er på ca. 2600 kvadratmeter, på tre og fire etasjer - samt kjeller, og ble oppført i 1980. I dag har byggene et energiforbruk på rundt 250 kWh pr kvadratmeter



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