

Sustainable Dubai studies Sonderborg's solutions

Dubai is more than energy-wasting hotels & shopping malls. New thoughts on energy-efficient and sustainable urban development are arising there very fast. The project challenges the famous MASDAR project on energy efficiency.

Diamond Developers chooses the sun and Sonderborg

Diamond Developers are frontrunners in sustainable construction in the Middle East region and the top management board have been on a ProjectZero's inspirational Energy-tour in Sonderborg, where they visited different demonstration projects and met consultants/suppliers of energy- and climate solutions.

The project in Dubai includes a totally new built city with 500 homes, shops and a school. The Project is constructed in a very energy-efficient way, where the energy supply comes from solar power that also will produce more energy than the buildings requires. The visitors had therefore a specific interest in ZERO+ building construction, like the ZERO+ house in Sonderborg.

Sustainable materials, local produce, education, recreational areas, water cleaning system, water re-use as well as electrical cars - all this is included in the sustainable Dubai project.

During their visit in Sonderborg, Diamond Developers was once again convinced about the importance of thinking energy efficiency and solar cells into the city construction. Among other things, the trip included: visiting the Sonderborg Production School, the Diamond Sport Center in Fynshav, the Sonderborg Combined Heat & Power Plant and Alsion.

For more information about "**The Sustainable City**", please read the [projects website \(http://www.diamond-developers.ae/\)](http://www.diamond-developers.ae/) or download the e-brochure for [Sustainable Living \(http://www.diamond-developers.ae/pdf/ebrochure.pdf\)](http://www.diamond-developers.ae/pdf/ebrochure.pdf)

The first homes will already be finished during 2014 and the whole project is expected to be accomplished in 2016. The energy consumption of these buildings is expected to be 35% lower than the energy consumption of the ambitious Masdar City project in Abu Dhabi.

The visit to Sonderborg was been arranged by the chairman of Danish Company Danimex, Egon Bruun, as an intermediary. Danimex has its HQ in Sonderborg, but an important regional office in Dubai and Egon Bruun wanted to show his Diamond business friends, how his hometown Sonderborg is transitioning into a ZEROcarbon community by 2029.

For more information:

Peter Rathje
peter.rathje@projectzero.dk (<mailto:peter.rathje@projectzero.dk>)

+45 4040 8636

1. april 2014

-
- The largest area for energy consumption in a Middle East home is not heating, but cooling
 - The solar cell in Dubai are 2.5 times more effective than in Denmark because of the intensity of the solar radiation



SE's new Passive and Plus Energy HQ in Esbjerg, Denmark

Energy saving measures:

- Compact building construction
- Daylighting design
- Energy efficient lighting
- Thermo active constructions
- Natural ventilation
- Energy efficient hybrid ventilation
- Passive cooling from 10 km soil pipes
- 2.000 m² building integrated solar PV panels producing 250.000 kWh electricity per year
- Space heat demand: 8.2 kWh/m² year
- Useful cooling demand: 12 kWh/m² year
- Pressurization Test Result: 0,1 h-1 (max. 0,6 h-1)





TemplateTags() in code (Designs/ProjectZero/_parsed/pdf.parsed.cshtml). Remove before going live...

ProjectZero | Alslion 2 | 6400 Sønderborg | tlf. 31 68 30 90 | post@projectzero.dk (mailto:post@projectzero.dk) | CVR 29 21 56 42