

# Photovoltaic and Solar Energy with DDS-CAD

Solar energy and heating specialists who have traditionally developed 2D drawings for their customers quickly realise the limitations of this style of working.

When it comes to shading and other structural disruptions, 2D drawings are an inappropriate tool for accurate evaluation and configuration. To provide a comprehensive basis for the decision for the optimal placement of collectors/photovoltaic modules, a professional tool with excellent visualization options is necessary.

With DDS-CAD and the possibilities of the DDS Advanced Rendering module, such a tool is available.

With few mouse clicks you can photo-realistically represent the solar energy falling on the building, including the shadows cast by shading objects. In the early stages of design, it can quickly be established whether a proposed solar energy system can be practically realised.

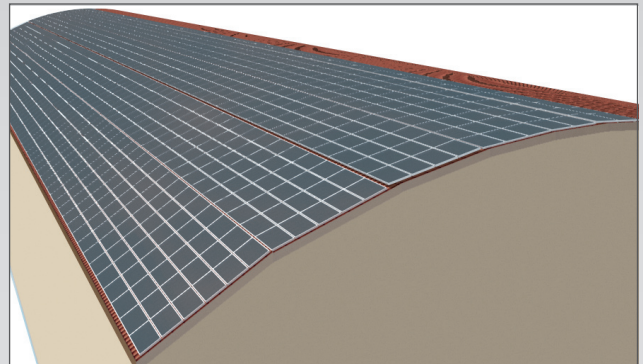
The solar shading analysis can be run as a single static image or animated as a movie sequence. There are two animated versions available: one can simulate Sun/Shading at different times during the year as an aligned sequence of images. However, the software can also simulate the course of continuous sun in a freely selectable period.



Structural shading objects can be displayed in the 3D-module to allow analysis during project planning.

The design possibilities are almost unlimited:

Roof areas can be freely drawn in DDS-CAD, allowing all roof shapes to be planned.

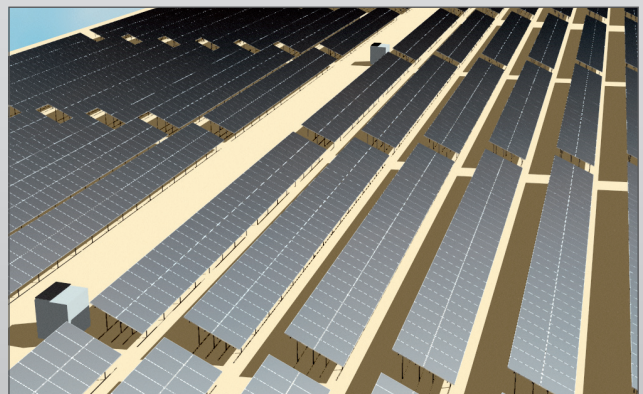


DDS-CAD allows the design of solar panels on the arbitrary shaped roofs such as this barrel roof example.

DDS-CAD is also suitable for the placement of solar energy systems in open spaces.

The location of the solar plant on the latitude and longitude of the site is the basis for the exact sun position information in the project.

Basically the solar modules can be placed in any position on the site or attached to the building structure. The mountings for the solar modules can also be created.

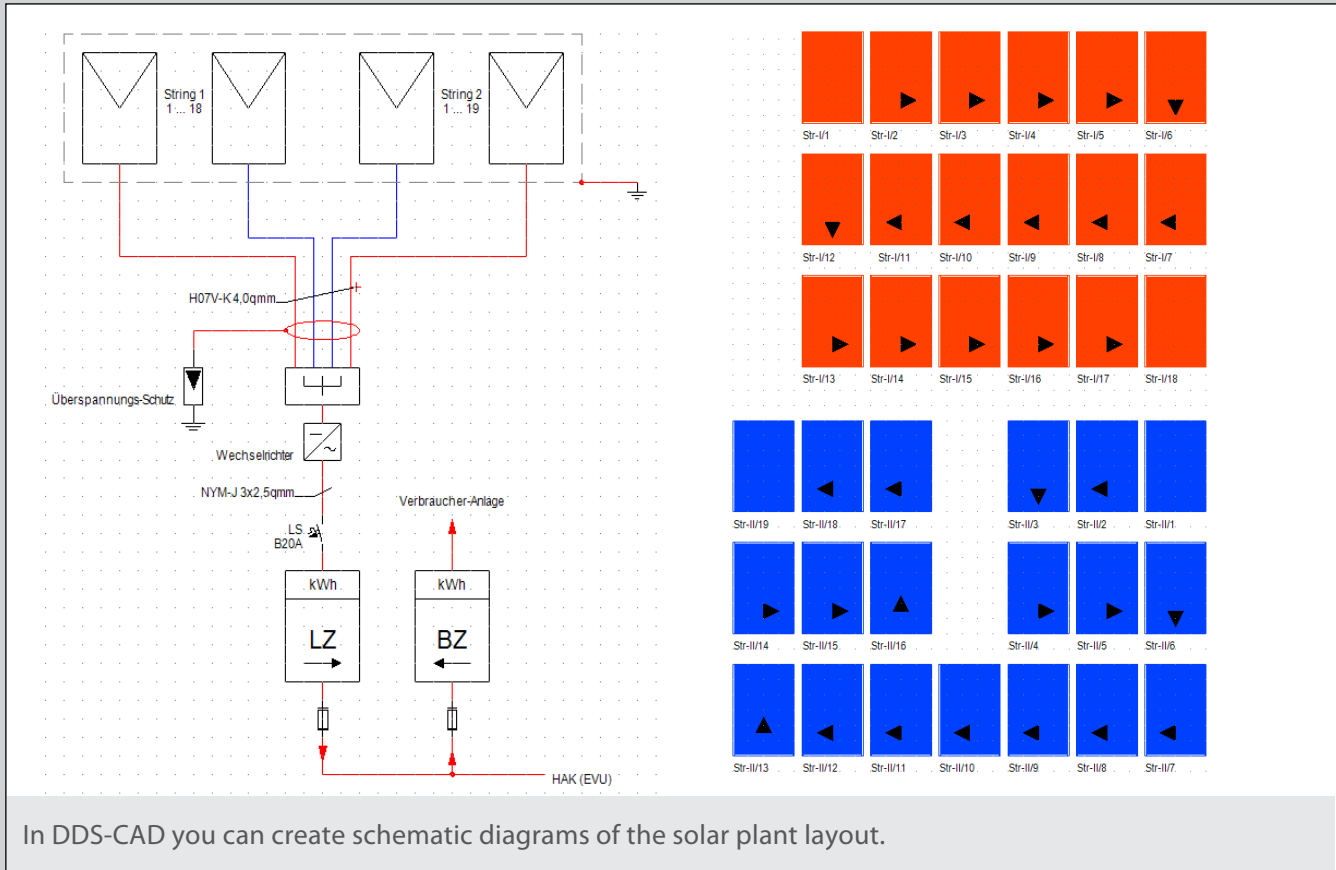


Representation of a solar installation in an open area with DDS-CAD.



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For the preparation of a plant layout, as well as a schematic diagram for photovoltaic projects, a separate work area is available in DDS-CAD.



In DDS-CAD you can create schematic diagrams of the solar plant layout.

## Also available: DDS-CAD with Polysun Inside

This plug-in offers:

- Photovoltaic Calculation
- Automatic inverter assignment
- Comprehensive module and inverter database

Polysun is from the Swiss company Vela Solaris, a leading provider of solar software. Polysun can be used with a software interface directly from DDS-CAD, using the graphical user interface of DDS-CAD To access the Polysun computational core. This will give you exactly the same values as with the Polysun standalone version.

Polysun Simulation Software  
[www.polysunsoftware.com](http://www.polysunsoftware.com)  
[www.velasolaris.com](http://www.velasolaris.com)



Further Information:

**Data Design System GmbH**  
An der Hanslinie 48-50  
59387 Aschenberg, Deutschland  
Tel.: +49 2593 919 966  
[www.dds-cad.com](http://www.dds-cad.com)  
[info@dds-cad.de](mailto:info@dds-cad.de)



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