

EUROGATE DUISBURG

PV system, Duisburg, Germany

The various Ruhr cities deal with the challenges of the area's structural change differently. Planning Eurogate, Duisburg generally focusses its efforts on the development of its large harbour area.

The shape of the 16-storey design of steel and glass recalls the former harbour's topography. The central optical and technical element is the south facing PV screen.



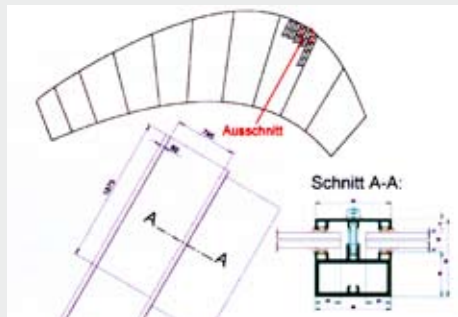
In Sir Norman Foster's visionary concept study, Eurogate serves as the masterplan's centerpiece. At the hub of private and commercial use, Eurogate expresses cutting edge technology and ecological renewal.

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As part of the concept study we did a basic evaluation for a complete PV system. The comprehensive study included the:

- conceptualization of a truss structure for the modules' mounting system
- dimensioning of suitable modules
- development of the electrical concept
- power balance
- detailed output simulation
- operating effectiveness study according to the Discounted Cash Flow principle.



The cooperation with Sir Norman Foster's international planning team presented a special opportunity for *abakus*. Even if the visionary concept is still to be realized, we enjoyed thinking "big" and developing sustainable solutions for the region's structural problems.



Grid connected PV system

- Power: ~ 1 MWp
- Projected number of modules: ~ 5,700
- Area of modules: ~ 9,000 m²
- String circuit: ~ 35 km
- Specific output: from 574 to 756 kWh/kWp, depending on orientation of segments

