

Facts and Figures on the New RWE Supply & Trading Building

- 77.50 m long, stretching along Altenessener Straße
- 68.80 m deep
- 6 storeys
- 3,000 m² trading floor for 250 employees
- 7.00 m high ceiling on the trading floor and in the auxiliary spaces; corresponds to 11.6 m²/employee (124.8 sq. ft/employee)
- 12,100 m² floor space with office space for around 560 employees; corresponds to 21.6 m²/employee (232.5 sq. ft/ employee)
- 4,488 m² ground space
- 18,752 m² gross building space
- 79,177 m³ gross building volume
- 15 ha property
- 70 km of cables
- 9,000 m³ site-mixed concrete
- 1,000 t reinforced concrete
- 100 t of steel frame for the trading floor
- 191 work days / just under 8-month construction time from the laying of the cornerstone to completion
- at peak times around 200 construction workers on the site
- Building exceeds goals set by German energy saving regulation by around 30%
- The heating is ecologically friendly district heating, produced in combined heat and power generation. The power plant produces power and heat with an efficiency of up to 85%.
- Through the intelligent use of established technologies, the new RWE building has a high degree of energy efficiency. The maximum permissible value for heating energy as established by the new German Energy Saving Regulation (EnEV) for commercial buildings is 180 kWh/square metre per annum. With a value of 127 kWh, the new building is far below this value. The air conditioning for the building only consumes around 50% of the energy needed to achieve comparable results in similar buildings, the individual work place lighting lowers consumption by 25 to 30 per cent. Compared to conventional heating and air conditioning the building saves around 630,000 kWh per annum in heating, equal

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to the annual heating needs of 40 new single family homes; for electricity (excluding lighting) the savings are around 190,000 kWh, equal to the power consumed by circa 45 households. The lighting saves up to a further 187,000 kWh electricity (circa 44 households).