

## RWE Essen



### Location

Opernplatz 1, Essen, Germany

### Built

Construction period: 1994–1997  
Competition: International competition 1991, 1st prize  
GFA 36.000 m<sup>2</sup>

## First German ecologically orientated high-rise

The 127 meters high-rise is the first ecologically orientated building with a double skin overall glass façade for natural ventilation of office areas. The building is classified as the first German ecologically orientated high-rise. The RWE high-rise is situated free behind the realigned boundaries of the block edge. Through punctual density the inner area is kept free to the benefit of a generously laid out park space. The offices are lit and ventilated naturally by way of a floor-high twin-shell glass façade. All functions of the natural ventilation system, daylight controls, sunscreens and blinds and the façade construction were integrated in the specially developed facade element, so-called “fish-mouth”. All functions can be adjusted to individual requirements by means of a control panel in each room.

## Awards, Nominations

1999

The 1999 DuPont Benedictus Awards, Special Recognition

1998

BDA architecture price Nordrhein-Westfalen 1998 Award for property of the year 1997

## Team

Client

Hochtief Projektentwicklung GmbH & Co, Essen

Architect

Christoph Ingenhoven, Achim Nagel, Klaus Frankenheim, Arnd Gatermann, Peter Jan van Ouwerkerk, Martin Slawik, Roger Baumgarten, Sabine Begemann, Harald Benini, Claudia de Bruyn, Jan Dvorak, Michael Feist, Jürgen Gendriesch, Ulf Große, Imre Halmai, Uwe Jürgensen, Gundula Kappen, Ulrich Kluth, Ingo Kraft, Martin Leffers, Jochen Müller, Wolfgang Nimptsch, Michael Paprotny, Frank Reineke, Martin Röhrig, Herwig Rott, Rudolf Rüßmann, Sakine Sahinbas, Norbert Siepmann, Elisabeth Vieira, Harald Wennemar, Regina Wuffcompetition in collaboration with Bob Gansfort, Dusseldorf

Structural Engineering

Hochtief AG Hauptniederlassung Rhein-Ruhr, Hoch- und Ingenieurbau, Essen

Büro Happold, Consulting Engineers Ltd., Bath/Dusseldorf

Facade Consultant

Josef Gartner & Co. Werkstätten für Stahl- und Metallkonstruktionen, Gundelfingen

Building Services

HL-Technik AG Beratende Ingenieure, Munich/Dusseldorf

IGK Ingenieurgemeinschaft Kruck, Mülheim a.d.Ruhr

Buro Happold Consulting Engineers Ltd., Bath/Dusseldorf

Environmental Engineering

Geocontrol Umwelttechnische Beratung, Essen

Soils Investigation

ELE Erdbaulabor, Essen

Surveying

Ingenieurbüro Klein, Essen

Building Physics

Trümper & Overath Ingenieurgesellschaft für Bauphysik, Bergisch-Gladbach

## Fire Protection

Institut für konstruktiven Ingenieurbau, Wuppertal

## Wind Tunnel Investigation

Institut für Industrieaerodynamik, Aachen

## Ventilation Analysis

HL-Technik AG Beratende Ingenieure, Munich

## Lighting Artificial

HL-Technik AG Lichtplanung, Munich /Clemens Tropp

## Interior

ingenhoven architects, Dusseldorf

## Kitchen Planning

Flügel Großkücheneinrichtung, Essen

## Landscape Architecture

ingenhoven architects, Dusseldorf with WKM Weber Klein  
Maas Landschaftsarchitekten, Meerbusch

## Advice on Heliport

Günter Carloff, Polizeioberrat im BGS, Sankt Augustin

## Art Consultant

Vinzentz Art in Architecture, Dusseldorf