

COMMERZBANK, FRANKFURT A SUSTAINABLE SKYSCRAPER

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CONCEPT

- Plan of the tower is triangular, 60m sides that are curved to maximize space efficiency
- Central core constituted by an atrium on the full height of the tower
- Winter gardens spiral on the building every fourth floor

BMS

Building Management System

- Monitors numerous temperature and light sensors
- Controls the natural and mechanical ventilation
- Controls motor-driven sunshading and lights in offices and corridors

Intelligent skin

- Natural ventilation created by air cavity between openable windows and the outer protective pan

NATURAL LIGHT

- Natural lights provided inside the building by the windows on the perimeter or by the atrium

RESSOURCES

- Intelligent skins, Michael Wigginton and Jude Harris, 2002
- Foster, Norman and Partners
“Commerzbank”,
www.fosterandpartners.com
- Commerzbank, a sustainable skyscraper,
Christian Noble
- Weekarchitecture.com