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
• Weekarchitecure.com