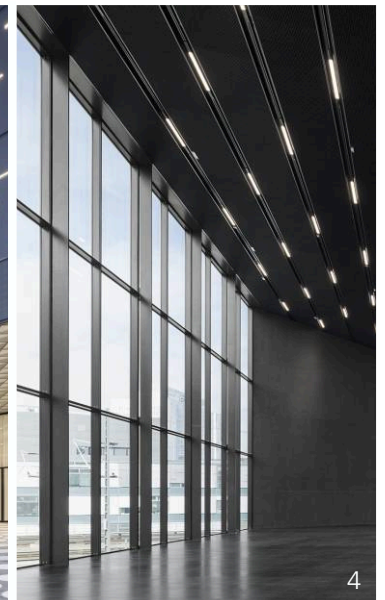




FUTURIUM - HOUSE OF THE FUTURE, BERLIN, GERMANY

PROJECT SUMMARY. The “House of the Future” was built on the initiative of the German Federal Government for presenting future developments as a result from the dialog and networking among the state, scientists, economists and society. Equipped with a future-oriented energy concept, the building meets the standard of a plus energy building including the “Gold Certification for Sustainable Construction”. The sculptural complex houses three aboveground floors which are accessible via two vertically installed core stairways in its center. Exhibitions and events in these floors are open to the public as well as the basement and the rooftop skywalk.

FOCUS OF CONSULTING SERVICES. In close collaboration with the architect and the building services planners, Müller-BBM helped develop a comprehensive energy concept based on the so-called “whole building simulation”. With this approach, it is possible to include all parameters relevant in terms of energy and their direct interactions. As a result, it was possible to prove that even a building with this special usage can be realized as a plus energy building. The main energy supply sources include photovoltaics, solar thermal energy as well as a latent heat accumulator. In the room acoustic design, the multi-purpose usage of the building was of utmost importance. Thus, it is possible to organize exhibitions, speech events as well as cultural performances. When developing the noise insulation measures, the close proximity of the railway line had to be taken into account.



CLIENT

Institute for Federal Real Estate, Berlin

ARCHITECT

Richter Musikowski GmbH, Berlin

PROJECT DATA

Planning and construction period	2012 – 2017
Gross floor area	13,660 m ²
Cost of construction	58 million euros

SERVICES RENDERED

Room acoustics, building acoustics, thermal insulation and energy performance calculation, overall consulting during work phases 1 - 4, whole building simulations

1 View from the banks of the Spree river

2 “Solar Sea”

3 “Screen”

4 “Forum”

Pictures: Schnepf Renou