

AN URBAN CAMPUS FOR MULTIPLE GENERATIONS



GENERATION PARK WARSAW, POLAND

Located in the heart of Warsaw's rapidly growing business centre, Generation Park will stand as a tri-building, high-class office complex, providing a central location for all generations to come together and collaborate. The complex will feature two high rise buildings and one skyscraper, all structurally and functionally independent and covered by separate building permit design.

Skanska Property's needed a structural solution that could reduce the construction time on each building, while characterising by functionality to easily arrange effective usable area. Another one of its strategic goals was to achieve LEED platinum C&S certification, to do this the client set targets of 40% reduction in water consumption and 24% reduction in energy costs.

Our team had to overcome a number of challenges throughout the course of this project. These included the foundations of the respective buildings coming at different levels, while being within close proximity to one another and a metro

tunnel. In response to these challenges, we developed structural solutions during the first stage of construction which allowed for the successful completion of the subsequent stages.

In addition to this, the client wanted to eliminate as many sound silencers as possible and reduce electrical energy consumption. BuroHappold engineers analysed a few options where the fan section must be located, and delivered acoustical calculations to prove that a no-silencers approach was achievable. We then installed mechanical ventilation fresh air supply systems based on active chilled beams, providing better indoor air quality, more control and improved comfort for those within the buildings.

At all design phases we delivered energy analysis reports to find out the best solutions for each of the proposed buildings, starting with the glazing area, external and internal shading and facade parameters. Our proposals were budgeted and step-by-step we achieved the target.

CLIENT
Skanska Property Poland

ARCHITECT
JEMS Architekci

PROJECT DURATION
2013 - 2020

**SERVICES PROVIDED BY
BUROHAPPOLD**
Building services engineering (MEP),
structural engineering, sustainability
consulting