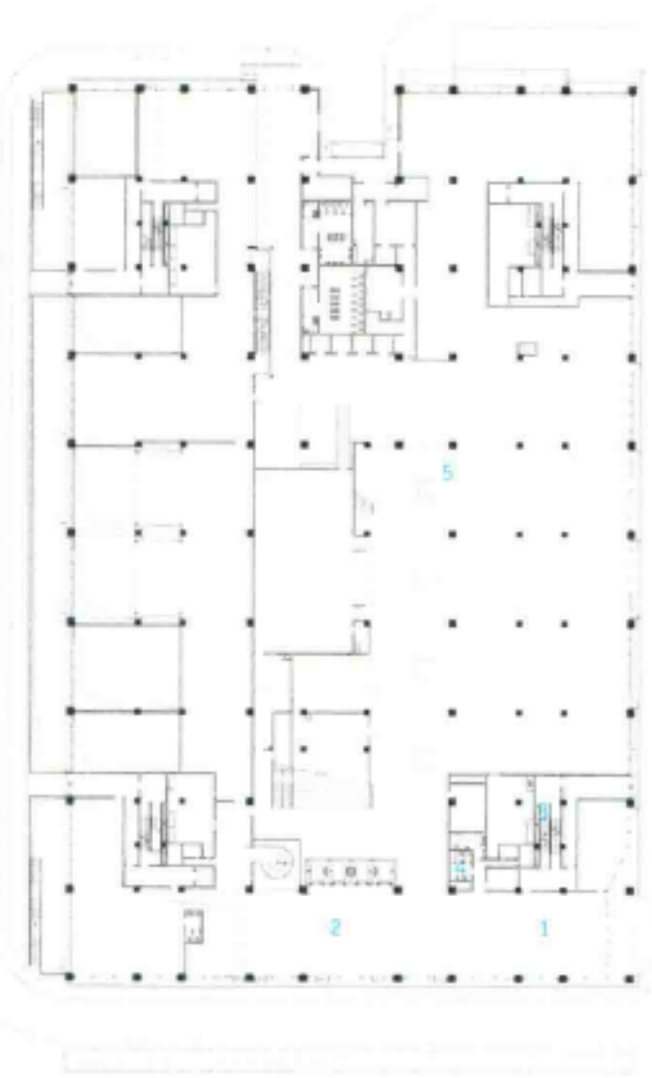
Full view 全景图

Nokia China Campus

Nokia China Campus in Beijing is China's first LEED – NC (Leadership in Energy and Environmental Design – New Construction) Gold certified building. The facility includes a research and development laboratory, office space, canteen, auditorium, formal and informal meeting areas, gymnasium and bike shed.

From concept to detailed design, ARUP was aware of the sustainability issues and the building boasts energy-efficient features such as a temperature-controlled cavity between the panes of the glass façade which balances the sun's natural heat and the building air-conditioning so the intense summer and winter climates of Beijing do not affect the internal climate. The building also incorporates water conservation techniques, methods to reduce air pollution and improved air ventilation. Thirty design techniques altogether result in 37% of water saving and up to 20% energy saving. Ninety-seven percent of the interior is afforded views from the glass façades, and skylights and a large communal atrium provide natural light and ventilation throughout the building.

This six-storey facility is the realisation of an integrated multidisciplinary design services. The building is the product of cutting-edge engineering design services – ARUP employed Computational Fluid Dynamics, thermal and energy modelling, structural optimisation and building sustainability tool kit to design the energy efficient building.



1. hall
2. reception
3. stairs
4. WC
5. dining

1. 大厅
2. 前台
3. 楼梯
4. 洗手间
5. 餐厅

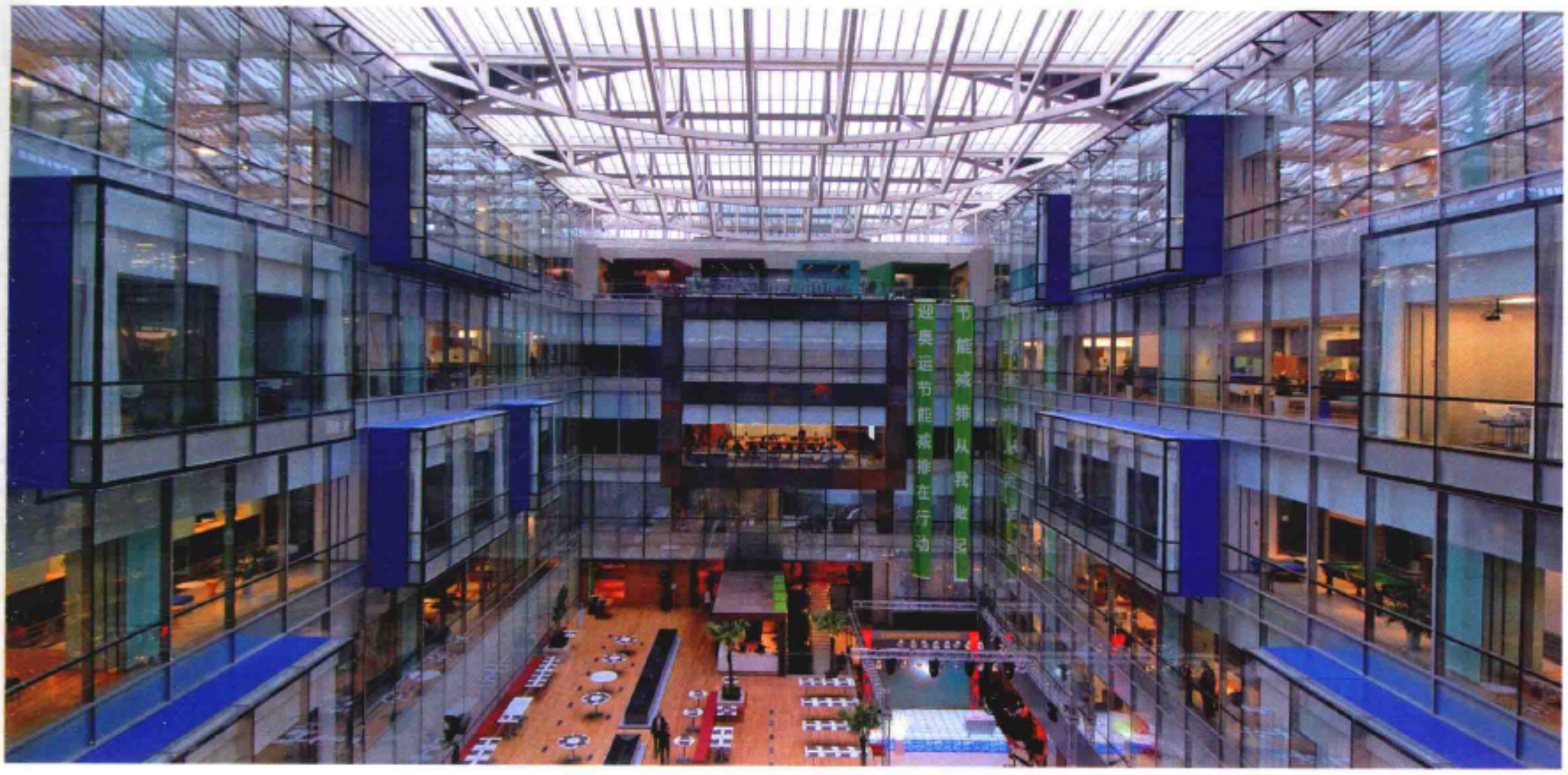
诺基亚中国园区

北京的诺基亚中国园区是中国第一座获得LEED-NC（能源与环境设计先锋奖——新建建筑类）金奖认证的建筑。园区包括研发实验室、办公空间、餐厅、礼堂、正式与非正式会议室、健身房和自行车棚。

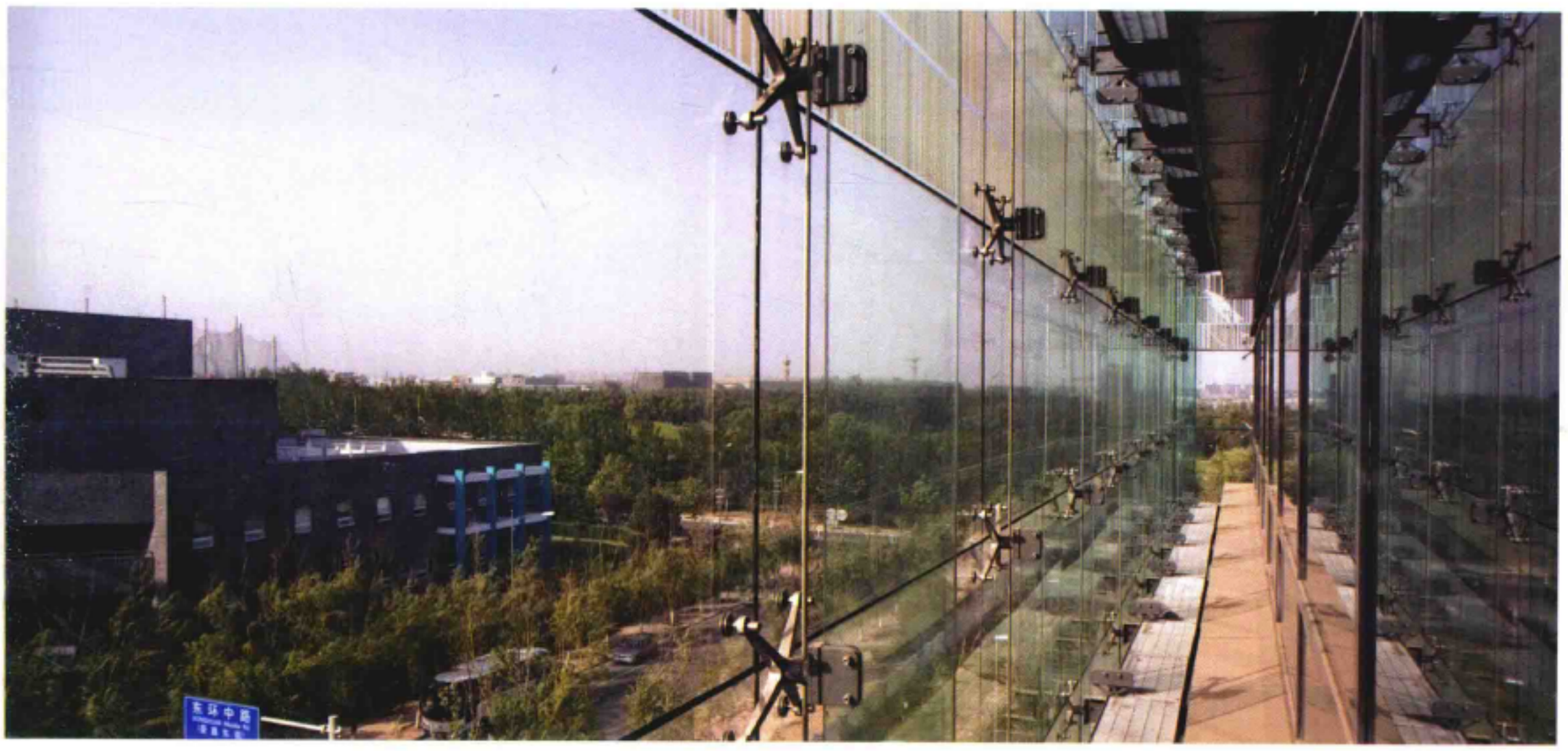
从总体设计理念到细节设计，ARUP始终注重设计的可持续性。玻璃外墙之间的控温空心夹层平衡了太阳热能和室内的空调系统，因此，无论是酷暑还是寒冬，室内气候始终保持不变。建筑还应用了节水技术、低污染气体排放技术以及优化通风技术。30种可持续技术的结合减少了37%的用水量和20%的能耗。97%的室内空间都可以透过玻璃外墙看到外面的风景；天窗和巨大的中庭为建筑提供了自然采光和通风。

这座六层的建筑是多学科设计服务相结合的产物。建筑采用了多种先锋工程设计——为了设计这座节能建筑，ARUP应用了计算流体力学、热能建模、结构优化、可持续建筑工具箱等手段。

建筑外墙 Exterior façade



室内大厅 Interior hall



结构细部 Structural details

Photo: Jerry Lee, M Moser, Ben McMillan

Corporate

Completion Date: 2007

Architect: ARUP