



The building access solution required the design and installation of BMUs with the largest reach in Europe

### Facts & Figures

<b>Commencement</b>	2015
<b>Completion</b>	2017
<b>No. of BMUs</b>	6
<b>Building Type</b>	Mixed-Use

The Nova Building in London offers a sustainable balance of uses, including residences, offices and retail outlets, along with a community space and library. The creation of a series of buildings in this development complement the continuing construction of Transport for London's proposals for the Victoria Station upgrade.

The facade access solution required was challenging in both its scale and complexity. The solution required the design and installation of Building Maintenance Units (BMUs) with the largest reach in Europe, with both negative and positive luffing jibs, something that had never been attempted at this scale before in the UK.

The first challenge to overcome was designing machines of this scale and complexity that fit within the very limited space available. Once this had been achieved a complex movement control system was developed to allow the machines to remain parallel to the sloped facade through their full rotational range of movement. A further challenge was developing a rescue procedure that allows operatives to escape in an emergency scenario from above a catenary lighting system. An emergency descent procedure was developed that allows operatives to be lowered by a descended device through a specially designed hatch in the cradle and down through the catenary lighting suspension cables.

CoxGomyl were selected as the BMU supplier due to their track record of providing viable solutions to the most complex building designs both in the City of London and around the world. The majority of facade access providers in the UK, saw the complexities and scale of the system as insurmountable, and shied away from the challenge. CoxGomyl were able to provide full and robust three-dimensional design input, which enabled the design team to ensure an incredibly high degree of certainty that no clashes

