



Supporting Sustainability: Our Role in Castellana 66's Green Modernization

Facts & Figures

Year Built	1990
Year Renovated	2024
Building Height	40 m
Solution	2 BMUs + replacement of monorail
No. of BMUs	3
Outreach	2 m
Building Type	Office



A Landmark's Green Transformation

In 2024, Castellana 66 in Madrid underwent a significant transformation as part of the client's ambition to achieve LEED Platinum certification. The project centered on upgrading the building envelope with integrated photovoltaic panels while ensuring that the maintenance access systems could meet the new architectural demands. With the building's distinctive layout and long-standing operational requirements, adapting existing systems was a strategic solution to balance cost efficiency, environmental responsibility, and functionality.

Overcoming Engineering Challenges

The refurbishment required careful planning, as both roof-mounted Building Maintenance Units (BMUs) operated on a single rail track—an unusual setup with strict weight and space restrictions. Reinforcing the structure would have resulted in substantial additional investment, so solutions had to work within the existing framework. Adding to the challenge, all works were performed while the property remained fully occupied, demanding quiet, flexible operations to minimize disruption.

Smart Upgrades for Long-Term Efficiency

The project focused on modernizing, rather than replacing, the BMUs. Both units were factory-refurbished with spindle extensions, lightweight cradles, upgraded control systems, and protective bumpers designed to safeguard the photovoltaic panels. Fresh coatings and foldable walkways were added for durability and ease of use.

At the courtyard, the outdated monorail system was replaced with a new Tractel Alta P powered cradle, an aluminium Rilscaf track, customized brackets, an integrated glass replacement hoist, and a power rail supply. This comprehensive approach extended the system's lifespan while ensuring safe, reliable facade access to every part of the building exterior.

Results That Reflect Innovation and Enduring Partnership

By opting for an upgrade rather than a full replacement, the project achieved substantial cost savings and minimized environmental impact—fully aligned with the client's sustainability objectives. CoxGomyl's trusted relationship with Castellana 66, spanning over two decades, played a pivotal role in delivering a solution that maintained operational continuity while future-proofing one of Europe's most energy-efficient buildings.