

NANAGING THE EAKS

1999 K Street in Washington DC

Some hours are better than others when it comes to operating an office building. When energy prices are high, building owners can reduce utility costs by shifting the building's electric cooling and heating demands. Fully automated with meteoviva Demand Side Management.

Building facts:

Area: 272,069 ft

Type: Office building

20% lower peak demand



The Challenge:

Achieve significant energy savings and peak demand reductions of an all-electric building while maintaining or improving tenant comfort.

With more and more commercial buildings going all-electric, it has become critical to reduce and avoid peak power consumption, while at the same time ensuring indoor comfort for tenants at all times, meteoviva balances all these factors.

Reduced peak electricity demand

Energy is becoming a strategic factor in competitive markets. This also applies to the real estate sector and meteoviva's client Deka Immobilien. For Deka's K Street office building in Washington DC, meteoviva was asked not only to improve the building's carbon footprint through energyefficient operation, but also to shift electricity consumption for heating and cooling to off-peak hours, thereby reducing overall electricity costs. To achieve this, meteoviva uses its meteoviva climate and meteoviva Demand Side Management solutions. Using predictive models, meteoviva can optimize and shift demand using preheating and precooling strategies to flatten the demand profile without sacrificing comfort. As a result, peak demand was reduced by 20 %, and energy costs and carbon emissions were reduced by 27 % in the first year of operation.

The Solution:

meteoviva's Smart Data Technology with Demand Side Management to optimize peak electricity demand with energy efficiency.

Improved indoor comfort

meteoviva's predictive and proactive building operation ensures improved indoor comfort, significantly reducing the average degree-hours that zones are "too hot" by 33 % and "too cold" by 45 %. In addition, the 24/7 monitoring allows for the detection of faults before they affect the indoor climate, resulting in a consistently pleasant work space for tenants. On average, 15 % to 45 % of indoor climat e-related energy costs can be saved through the use of innovative smart data technology. Deka and meteoviva greatly appreciate the generous contribution from the Washington DCSEU, who, based on the achieved savings, provided incentives to complete the project.

meteoviva has significantly reduced our carbon footprint, improved our tenant's indoor comfort, and made our property more sustainable and costeffective. We are extremely satisfied with our investment.

Enda Bracken, Senior Vice President Deka Immobilien, Real Estate Management USA Our partnership with meteoviva and Deka has been exemplary of how DCSEU champions energy efficiency. With our incentives, we accelerate the adoption of innovative technologies for a sustainable future.

Alexandru Maracineanu, Lead Engineering Consultant Washington DCSEU

