

# UEA Case Study

University **generates revenue** and helps to **balance the National Grid**



For over 40 years the University of East Anglia (UEA) has been at the forefront of climate change research. As might be expected from a university with a top-rated School of Environmental Science, UEA is committed to addressing sustainability on its own estates and has done this using low-energy building design and good energy management, incorporating renewable energy sources and raising awareness.

As part of a 10-year agreement with Open Energi it has recently become the first UK university to install Dynamic Demand across its campus. As part of the initial rollout air handling units (AHUs) totalling up to 1MW have been equipped with the solution and are now adjusting their energy demand automatically to help National Grid balance electricity supply and demand on a second-by-second basis. The second phase of the rollout is underway and will see the solution added to chillers and student accommodation blocks.

The AHUs only provide balancing services for a few minutes at a time and are always kept within their own performance boundaries, so students and staff feel no impact from the service.

The technology should earn UEA in excess of £60,000 over the next three years which will be invested in to future sustainability projects, and will help to cut CO<sub>2</sub> emissions from UK power stations.

**“UEA has done an enormous amount of work to improve energy efficiency and introduce green energy sources. Looking at how we could manage our electricity demand more intelligently was an obvious next step.**

**Open Energi’s solution was quickly and easily integrated with our BMS. It is great because once it’s installed it runs itself and provides a revenue stream with no impact on how our equipment performs.”**

**Martyn Newton, Assistant Director of Estates at UEA**



Generates a valuable recurring revenue stream



Supports the UK’s renewable strategy and targets



Improves energy security whilst reducing harmful emissions



Provides improved sub-meter data for site optimisation



Integrates with Trend Building Management Systems

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