

SECTOR /
**MULTI-SITE
RETAIL**

EFFICIENCY
SUSTAINABILITY
PERFORMANCE



As one of the nation's largest banks, ASB have made a long-term commitment to keeping its operations energy efficient and environmentally friendly. With the help of ESP's monitoring and consulting services, ASB have exceeded their energy and carbon reduction goals.

ASB
ONE STEP > AHEAD

ASB is committed to building a strong and resilient New Zealand. Ensuring its own energy use is sustainable for the long term is part of this goal.

With 5,500 staff, and buildings right around the country, the ASB property team realised timely information was critical to pinpoint where, when and why energy was being consumed within the portfolio. ESP was chosen to provide the monitoring and services that would enable ASB to drive significant results, and an efficient on-going program of improvements.

ASB now have an energy management programme fully integrated into their operations, including monitoring at every branch, a rolling programme of performance improvements, a branch energy tracker leader board and automated carbon calculators for their carbon reporting and audits.

Having already achieved a nearly 50% reduction in energy use across the entire portfolio, it could be perceived the job is done. However, with over 15 years of experience, ASB know that dynamic office environments need ongoing attention to prevent energy use increasing again. In addition, ASB have just reset their targets and are driving for further improvements.

49%

ENERGY REDUCTION
ACROSS ENTIRE
PORTFOLIO

11,575

CUMULATIVE
TONNES CO₂-e
AVOIDED

**100%
MONITORED**

EVERY BRANCH
AND BUILDING

Background

ASB started focusing on energy efficiency back in 2004 with a cohesive energy strategy being defined. In 2005, the Save Watt programme began the first significant energy efficiency campaign, encompassing a series of lighting control initiatives, upgrades across HVAC systems, as well as renewable energy and greenhouse gas studies. The initiative also led to an added emphasis on energy efficiency across all aspects of new building projects and refurbishments. However, despite all of the attention and work, energy use continued to rise. Much of it could be explained, new branches were being opened, longer opening hours and an endless list of reasons made it to accurately assess energy use and drive underlying performance.



Approach

The traditional approach of energy audits and tracking results through invoices were not delivering the dynamic insights needed by the business.

ESP proposed a new approach; taking a portfolio view, driven by analysis that identified the worst performing sites, and establishing a business case that showed if these sites could be improved down to the average, energy savings of 19% could be achieved.

The challenge was how the data could be gathered with enough accuracy and timeliness to deliver the results. Fortunately, at that time the Electricity Authority was looking for innovative ideas to improve energy efficiency. The bank guaranteed the savings, and a program of metering was put in place across all sites.

The remote metering equipment gathers sub-load usage every 15 minutes, enabling continuous monitoring to target specific end uses. The solution has changed over time; however, it is now consolidated in ESP's cloud

analytics platform, ESP Hub. The ASB team and ESP have worked closely together for over 15 years, integrating energy efficiency and sustainability into the everyday operations of ASB property management. The partnership with ASB draws on a range of ESP's services from tariff negotiations, monitoring and targeting, energy audits to the ongoing managed services that are part of ASB's energy management program.

"ASB is really proud of the energy efficiency results we have achieved. Our partnership with ESP has been critical to delivering those results across such a large portfolio, and with their proven track record of innovation we know we have the right partner to keep delivering even better sustainability results."

Anita Potgieter, Head of Facilities Management,
ASB Bank



Outcomes

ASB saw rapid results as an outcome of the metering program. The targeted savings of 19% were achieved within a year, clearly showing the value of timely data over energy invoices alone.

The team have since continuously increased portfolio savings. At the time of writing these are up to 49%, a reduction of 14.3 GWh against baseline, an impressive result when managing over 100 sites around the country of various sizes and uses.

The high-quality meters implemented have been independently audited, meaning ASB is able to use data straight from the meters for their carbon emission reporting – saving significant time and effort collating data. As electricity is ASB’s largest single emission source, the remarkable success of the property team means that over 1,500 tonnes of CO₂-e are avoided every year.

These remarkable sustainability results have not gone unnoticed. ASB were winners in the Energy Efficiency and Conservation Authority awards including:

- **2014 Commended** Large Business Award
- **2012 Winner** Energy Management Award
- **2012 Winner** Large Business Award

ASB are such a strong believer in the success of monitoring that all buildings are monitored – from the smallest branch, to head office at North Wharf and including its datacentres. Certainly, using the most modern technologies will be critical in the future, new targets have been set to achieve 60% savings by 2025.

“The monitoring and professional services that ESP provide have been invaluable in achieving our results. ESP Hub provides the visibility needed to productively plan and track performance across our entire portfolio.”

Matt Rowbotham, GM Procurement and Property, ASB Bank

ASB’s Key Results

100+
 SITES
 MONITORED AROUND
 THE COUNTRY

14.3
 GWh
 REDUCED
 ANNUALLY

\$2.1m
 NZD
 SAVED
 ANNUALLY

11,575
 CUMULATIVE
 TONNES CO₂-e
 AVOIDED

ASB’s Annual Usage



Why Partner With ESP

ESP is an award-winning, New Zealand owned and operated expert in energy efficiency and decarbonisation. ESP's digital services and solutions will enable you to find and make issues visible, enable stakeholders to take action, change behaviours and ultimately make an impact.

We have helped organisations like yours integrate sustainability and energy efficiency into your business to achieve operational excellence and reduced operating costs for over 15 years.

ESP provides an end-to-end service including carbon, energy and water optimisation. Our unique strength is our market leading digital toolsets and expert engineers. Combined, these provide the most cost-effective way for businesses to achieve and maintain their sustainability goals.

Monitoring

We supply and install high quality IoT sensors across a wide range of devices, including but not limited to;

- Pumps
- Motors
- Fans
- Temperature
- Refrigeration units
- HVAC
- Boilers
- Compressed air
- Lighting
- HVAC
- Lifts
- Compressors

As New Zealand's leader in energy and water monitoring, we have been recognised with a range of awards including;

WINNER /

Service Provider of the Year at Facilities Management Association of NZ Awards 2021

WINNER /

EECA Business Service Excellence Awards 2016

FINALIST /

AUT Business School Excellence in Business Support Awards 2016

Analytics

Data collection is automated with Hub, ESP's cloud analytics platform, then enriching and correlating the data with various other data sets including our own data warehouse, to provide unparalleled industry benchmarking and best practice guidance.

ESP currently works with:

- over 150 companies across
- 1,000+ sites,
- managing over 576 Gwh of energy (equivalent to 76,000 Kiwi homes),
- saving over 413m Kwh in energy use
- delivering over \$60 million in savings; and
- helping to avoid 49,000 tCO₂-e (equivalent to 11,666 cars driven on kiwi roads for one year).

Next Steps

ESP solutions and consulting provide the most cost-effective results – for the long term. Our focus is on creating actionable initiatives for our clients so you can focus on delivering outcomes.

Visit [ESPHQ.com](https://www.esphq.com) or call our team today to discuss how we can help deliver your sustainability goals.

ESP is the trading name of Energy Solution Providers Limited.

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