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powerstar<sup>®</sup>

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## CASE STUDIES

[www.powerstar.com](http://www.powerstar.com)



# SHOWCASING A SELECTION OF POWERSTAR SAVINGS RESULTS FROM A VARIETY OF INDUSTRIES



- 🌿 Average electricity consumption savings of 12%
- 🌿 100% savings guarantee
- 🌿 Up to 15 years warranty
- 🌿 Thousands of installations, across a broad range of industries
- 🌿 Flexible finance and leasing packages available
- 🌿 Typical payback periods of 2-3 years





### THE CLIENT

UK INSTALLATION

**ASDA** is one of the biggest supermarket retailers in the UK. Owned by US retail giant Wal-Mart, ASDA has a range of superstores and supermarkets in its portfolio.

### OUTCOME

- Powerstar have **worked in partnership with ASDA since 2009**, we continue to provide ASDA with pioneering, market leading technologies
- Average savings achieved of **£10,600 (\$16,352 / €14,304) per store**
- Payback periods average at **2.6 years per store**



### THE CLIENT

UK INSTALLATION

**Portola Packaging Ltd** is a manufacturer of metal and plastic caps and closures. The company supply to the food and drink industry.

### OUTCOME

- Achieved an average **8% reduction** in electricity consumption
- Delivered a return on investment of **2.6 years**
- Reduced CO<sub>2</sub> emissions by **514.8 tonnes**



### THE CLIENT

ASIA PACIFIC INSTALLATION

**Swire Cold Storage** are a leading Australian provider of cold-chain logistics services and supply chain solutions.

### OUTCOME

- Powerstar is delivering electricity consumption savings of **13%-14%**
- The installation has resulted in a reduction in CO<sub>2</sub> emissions of **490 tonnes**
- The project was completed with **no disruption** to the delicate cold storage operation



### THE CLIENT

MIDDLE EAST INSTALLATION

**Ski Dubai** is an indoor ski resort with 22,500 square metres of indoor ski area and a 85 metres high indoor mountain with 5 ski slopes.

### OUTCOME

- Delivered annual electricity consumption savings of **9.7%**
- Reduced CO<sub>2</sub> emissions by **79 tonnes** per annum
- Savings achieved without compromising the site's challenging operations



### THE CLIENT

EUROPEAN INSTALLATION

**Atlas Insurance** is part of the Atlas Group, and is one of the leading insurers in Malta.

### OUTCOME

- Achieved electricity consumption savings of **13.4%**
- Payback period of **3.9 years**
- Atlas Insurance have achieved a **27%** return on investment



### THE CLIENT

UK INSTALLATION

**RWE npower** are a leading integrated UK energy company and supplier of gas, electricity & related services to homes and businesses.

### OUTCOME

- Powerstar proved performance & savings capability through independent tests
- Systems are now installed into the RWE npower office portfolio
- Powerstar signed an exclusive partnership with npower Business to **provide Powerstar systems to npower business customers**



pwc

### THE CLIENT

EUROPEAN INSTALLATION

**PricewaterhouseCoopers (PwC)** is a multinational professional services network, offering assurance, advisory and tax service lines.

### OUTCOME

- Powerstar achieved **8.1%** savings in electricity consumption
- CO<sub>2</sub> emissions reduced by **66.4 tonnes** per year
- Improved efficiencies of office equipment & lighting



THE ICE CO<sup>®</sup>  
logistics

### THE CLIENT

UK INSTALLATION

**The Ice Co Storage & Logistics** are the logistics division of Europe's largest ice manufacturer, arranging storage and transportation of products.

### OUTCOME

- Successful in head to head trials against competitor systems
- Annual electricity consumption savings of **14.74%**
- Savings on electricity bills of **£7,124 (\$10,990 / €9,613)** per year



The co-operative  
food

### THE CLIENT

UK INSTALLATION

**Co-operative Food** is a food-retailer with a portfolio of 2,800 local convenience and medium-sized food retail stores.

### OUTCOME

- Savings in electricity consumption average **12%-14%** per store
- Annual savings on electricity bills average **£9,000-£11,000 (\$13,884-\$16,969 / €12,145-€14,844)** per store
- Contributed to reduction of CO<sub>2</sub> emissions by **35%** across all stores



Derby City Council

### THE CLIENT

UK INSTALLATION

**Derby City Council** is a local government authority. The Eagle Centre market (now Intu Derby) was chosen as one of three sites for installation. Intu is a 200 unit retail & leisure premises with shops, supermarket, cinema & restaurants.

### OUTCOME

- The centre reduced electricity consumption by **14.6%**
- Powerstar is saving Derby City Council around **£10,000 (\$15,247 / €13,494)** per year
- Derby City Council have reduced CO<sub>2</sub> emissions by **69.2 tonnes** per year



Carrefour

### THE CLIENT

EUROPEAN INSTALLATION

**Carrefour** is one of the largest supermarket retail chains in the world with a varying range of sites, most being convenience stores.

### OUTCOME

- A reduction in annual electricity consumption of **10.4%**
- Powerstar achieved a **240 tonnes** reduction in CO<sub>2</sub> emissions
- Payback period of less than **1 year**



Swann-Morton

### THE CLIENT

UK INSTALLATION

**Swann Morton** is a world leader in the manufacture of surgical scalpel blades, handles and disposable scalpels.

### OUTCOME

- Powerstar delivered annual electricity consumption savings of **9.9%**
- CO<sub>2</sub> emissions have been reduced by **102 tonnes** per annum
- Electricity savings of **£11,595 (\$17,887 / €15,647)** per year



UK INSTALLATION

### THE CLIENT

**Premier Inn** is the UK's largest hotel brand and is part of the Whitbread PLC portfolio. There are more than 700 Premier Inn hotels in the UK.

### OUTCOME

- More than **400** Powerstar installations in the Whitbread estate
- Average electricity consumption savings across all sites of **12.35%**
- A **12,062 tonne** reduction in annual CO<sub>2</sub> emissions



MIDDLE EAST INSTALLATION

### THE CLIENT

**The Emirates Towers** are one of the most stunning architectural highlights on the Dubai skyline. The Jumeirah Emirates hotel tower has 400 spacious, newly furnished rooms and suites, paired with state-of-the-art meeting and business facilities.

### OUTCOME

- Powerstar achieved **10.5%** savings in electricity consumption
- Annual electricity savings of **£7,370 (\$11,369 / €9,945)**
- Return on investment period of under **3 years**



ASIA PACIFIC INSTALLATION

### THE CLIENT

**Palais Hotel** in Adelaide, Australia, is a newly renovated popular, beach-front hotel.

### OUTCOME

- Powerstar achieved **10.5%** savings in electricity consumption
- Annual electricity savings of **£7,370 (\$11,369 / €9,945)**
- Return on investment period of **under 3 years**



UK INSTALLATION

### THE CLIENT

**Principal Hayley** is a hotel and conference venue operator with hotels in the UK, France and Spain. The Palace Hotel in Manchester is amongst the flagship sites in the hotel portfolio.

### OUTCOME

- Savings on electricity consumption of **18%** per year
- Annual electricity bill savings of **£30,126 (\$46,475 / €40,655 )**
- Payback period under **1.4 years**



UK INSTALLATION

### THE CLIENT

**Ten Manchester Street** is a boutique 4-star hotel in London with 44 unique guest rooms.

### OUTCOME

- Reduction in electricity consumption of **21.4%** per year
- Annual electricity savings of **£9,519 (\$14,684 / €12,845)**
- Payback period under **1 year**



EUROPEAN INSTALLATION

### THE CLIENT

**Coral Beach Hotel & Resort** is a member of the Leptos Calypso hotel group. This unique, 5-star resort has all-inclusive facilities.

### OUTCOME

- Annual electricity consumption savings of **16%**
- A **6%** reduction in maximum demand (kVA) for the resort
- Helped the resort achieve Corporate Social Responsibility (CSR) targets with no negative affect to guest services



UK INSTALLATION

### THE CLIENT

**2 Sisters Food Group** produces branded and retailer own brand ready meals, sandwiches, pizzas, biscuits and puddings. Powerstar was installed at Northern Foods, which is now part of the 2 Sisters Group.

### OUTCOME

- Three units installed
- Saving of **8.20%**, **9.84%** and **9.70%** respectively on annual electricity consumption
- Annual electricity savings of **£62,086 (\$95,780 / €83,785)**



UK INSTALLATION

### THE CLIENT

**Trelleborg** is a world leader in engineered polymer solutions that seal, damp and protect critical applications in demanding environments.

### OUTCOME

- Annual savings in electricity consumption of **11.2%**
- Reduction in electricity bills of **£17,683 (\$27,279 / €23,863)** per year
- Prolonged lifespan of on-site equipment and reduced maintenance costs



MIDDLE EAST INSTALLATION

### THE CLIENT

**TenCate** is market leader in synthetic fibres and components, supplying sports surfaces for a range of sports such as soccer, American football, hockey, tennis and golf.

### OUTCOME

- Savings of **8.7%** on annual electricity consumption
- Reduction in CO<sub>2</sub> emissions of **462.5 tonnes** per year
- Installation was completed with no adverse affects to the business operations.



EUROPEAN INSTALLATION

### THE CLIENT

**Photos Photiades Brewery Ltd** is a producer and distributor for Carlsberg in Europe.

### OUTCOME

- Reduced electricity consumption by **17%** per year
- CO<sub>2</sub> emissions cut by **21 tonnes** per annum
- Return on investment of just **1 year**



UK INSTALLATION

### THE CLIENT

**Olam International** is a leading agri-business operating from seed to shelf in 65 countries, supplying food and industrial raw materials to over 13,600 customers worldwide.

### OUTCOME

- Reduction in annual electricity consumption of **14.1%**
- Powerstar achieved cuts in CO<sub>2</sub> emissions of **203.1 tonnes** per annum
- Reduced wear and tear on machinery and equipment



UK INSTALLATION

### THE CLIENT

**Newburgh Precision** is part of Newburgh Engineering and are one of the premiere contract manufacturing companies in the UK, encompassing design, machining, fabrication, iron founding, welding and assembly.

### OUTCOME

- Savings of **10%** on annual electricity consumption
- Annual electricity bill savings of **£14,079 (\$21,719 / €18,999)**
- Payback period of **3.2 years**



### THE CLIENT

UK INSTALLATION

**Ashworth Hospital** is a high-security psychiatric hospital in the UK, it is managed by the NHS.

### OUTCOME

- Powerstar achieved annual electricity consumption savings of **12%**
- Payback period of under **3 years**
- **No compromise** to the high-tech security system in place at the hospital



### THE CLIENT

UK INSTALLATION

**London City Hall** is home to the Mayor of London, the London Assembly and 600 permanent staff who work for the Greater London Authority (GLA).

### OUTCOME

- Savings in electricity consumption of **13.6%** per year
- Payback period of under **2 years**
- Significant reductions in carbon emissions and electricity costs



### THE CLIENT

UK INSTALLATION

**Royal Hallamshire Hospital** is a general hospital in the UK, managed by the NHS. The hospital includes 12 operating theatres and most non-emergency departments.

### OUTCOME

- Powerstar achieved savings of **5.1%** on annual electricity consumption
- A **11.5%** reduction in kVA demand was achieved
- The installation has caused no disruption to the patient care services and critical operations of the hospital



### THE CLIENT

UK INSTALLATION

**The Department of Business Innovation & Skills (BIS)** is a ministerial department of the UK Government, responsible for economic growth through investment in skills and education.

### OUTCOME

- Annual electricity consumption savings of **13.7%**
- Powerstar generated financial savings of **£4,357 (\$6,721 / €5,879)** per year
- **29 tonnes** of CO<sub>2</sub> emissions reduced per annum



### THE CLIENT

UK INSTALLATION

**West Middlesex University Hospital** is an acute NHS hospital in London. The hospital offers all services including A&E, acute medicine, surgery and maternity services.

### OUTCOME

- Powerstar delivered annual electricity consumption savings of **8.4%**
- Carbon emissions reduced by **163.6 tonnes** per year
- Return on investment of under **2 years**



### THE CLIENT

UK INSTALLATION

**Tower Hamlets London Borough Council** is a local authority for a borough in central London. Powerstar was installed into a homeless services facility within the borough.

### OUTCOME

- Savings in electricity consumption of **12%** per year
- Electricity bill savings of **£6,411 (\$9,890 / €8,651)** per annum
- Annual CO<sub>2</sub> emissions reduced by **30 tonnes**



Sheffield Hallam University

UK INSTALLATION

### THE CLIENT

**Sheffield Hallam University** is the 4th largest university in the UK, with more than 33,000 students and 4,500 staff. The University is based on 2 city centre campus sites.

### OUTCOME

- Annual reduction in electricity consumption of **16%**
- Reduction in maximum demand of **19%**
- Benefited from a **75% reduction** in failure of lighting tubes



THE UNIVERSITY OF MELBOURNE

ASIA PACIFIC INSTALLATION

### THE CLIENT

**The University of Melbourne** has over 42,000 students and around 3,500 staff. Powerstar was installed in the university's Law building.

### OUTCOME

- Electricity consumption reduced by **12.75%** per year
- The university's CO<sub>2</sub> emissions cut by **268 tonnes** per annum
- Powerstar demonstrated in controlled tests at the university that **savings could be made on LED lights**



Ευρωπαϊκό Πανεπιστήμιο Κύπρου  
European University Cyprus

EUROPEAN INSTALLATION

### THE CLIENT

**The European University** is a for-profit educational institution with 5,000 students. It provides undergraduate, graduate and doctorate degrees.

### OUTCOME

- Installed on two sites, reducing electricity consumption by **11.9%** and **8.8%**
- CO<sub>2</sub> emissions reduced by **57 tonnes** per year
- Both systems delivered payback periods under **3.5 years**



ST HILD'S

UK INSTALLATION

### THE CLIENT

**St Hild's School** is a secondary school in the UK, for children aged 11-16. With over 700 students the school provides all core educational facilities for pupils.

### OUTCOME

- Powerstar reduced electricity consumption by **9.2%**
- Annual financial savings of **£4,795 (\$7,397 / €6,470)** were achieved
- CO<sub>2</sub> emissions reduced annually by **27.1 tonnes**



Portland College

UK INSTALLATION

### THE CLIENT

**Portland College** is an educational establishment providing education for around 270 disabled students aged between 16 and 60.

### OUTCOME

- Powerstar reduced annual electricity consumption by **11.3%**
- Financial savings of **£12,591 (\$19,424 / €16,991)** per year
- The installation reduced CO<sub>2</sub> emissions by **85.2 tonnes** per annum



UNIVERSITY OF SURREY

UK INSTALLATION

### THE CLIENT

**The University of Surrey** specialises in science, engineering, medicine and business. The campus hosts 13,895 students and 2,300 staff.

### OUTCOME

- Annual reduction in electricity consumption of **8.1%**
- Financial savings of **£13,911 (\$21,460 / €18,772)** per year
- Return on investment of **3 years**

NB: Exchange rate currencies are correct at time of going to press 19.10.15



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EMSc (UK) Limited. EMS House, 4 Cowley Way, Ecclesfield, Sheffield, S35 1QP

T: +44 (0)1142 576200 | F: +44 (0)1142 572699

E: [info@powerstar.com](mailto:info@powerstar.com) | [www.powerstar.com](http://www.powerstar.com) | [www.ems-uk.org](http://www.ems-uk.org)