IoT ENERGY MONITORING DEVICE

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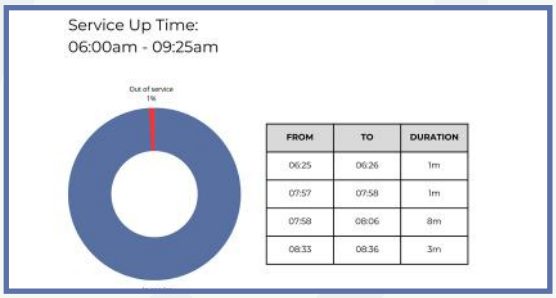
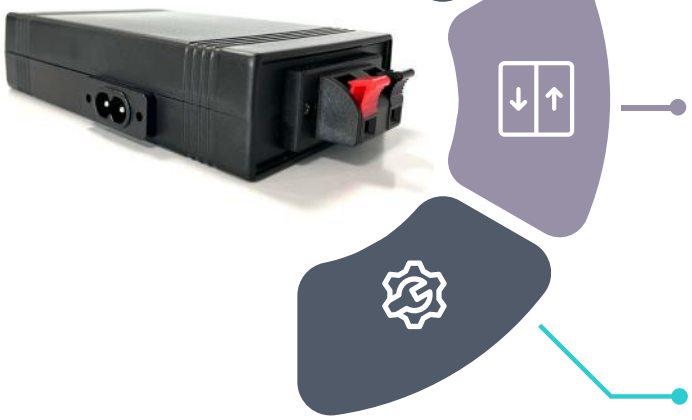
IoT ENERGY MONITORING DEVICE

Real-time data capturing for effective monitoring.



CHARACTERISTICS

CORE FEATURES



Energy measurement and monitoring

Lift usage profiling

In/out of service monitoring*

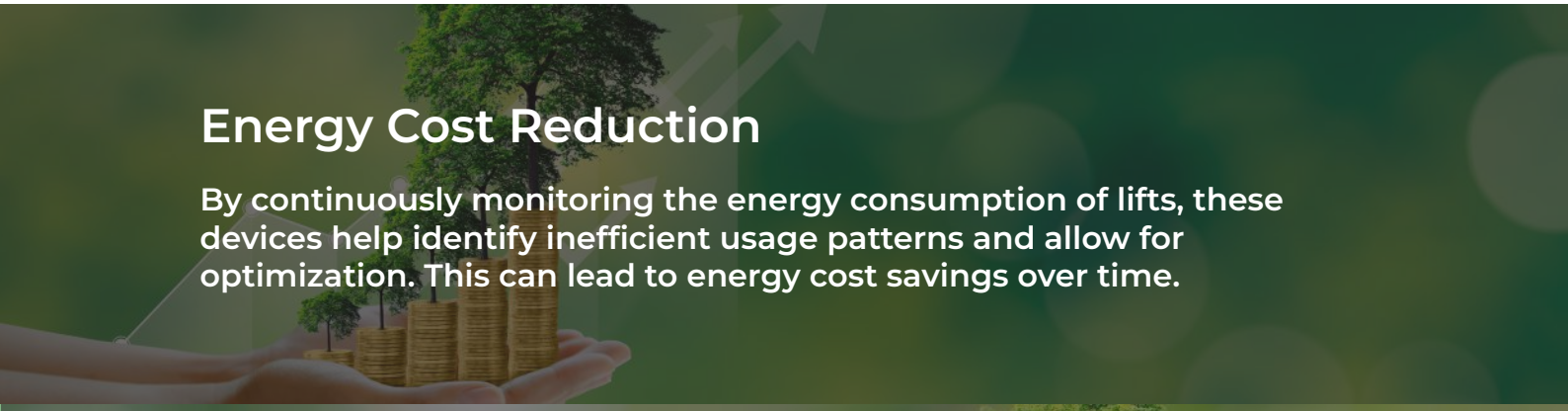
*Feature requires two-wire connection to control panel

SUPPORTING FEATURES

- Works on any make or model of lift
- Quick and easy installation
- Devices are both Wi-Fi and GSM enabled
- Energy monitoring and usage profiling are independent of lift control system

BENEFITS

Energy Monitoring

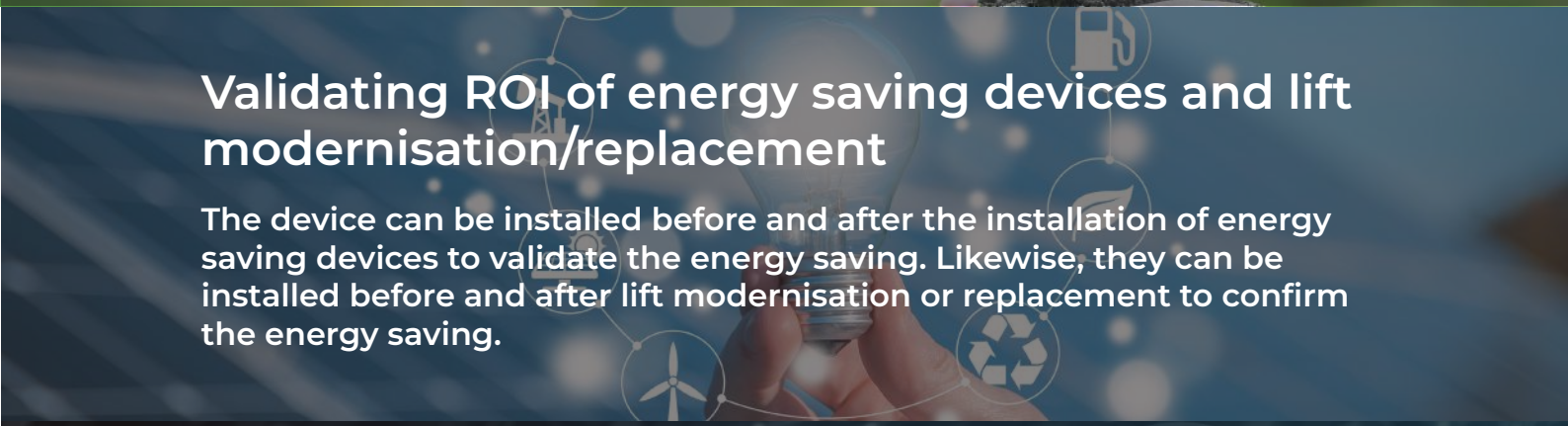


Energy Cost Reduction

By continuously monitoring the energy consumption of lifts, these devices help identify inefficient usage patterns and allow for optimization. This can lead to energy cost savings over time.

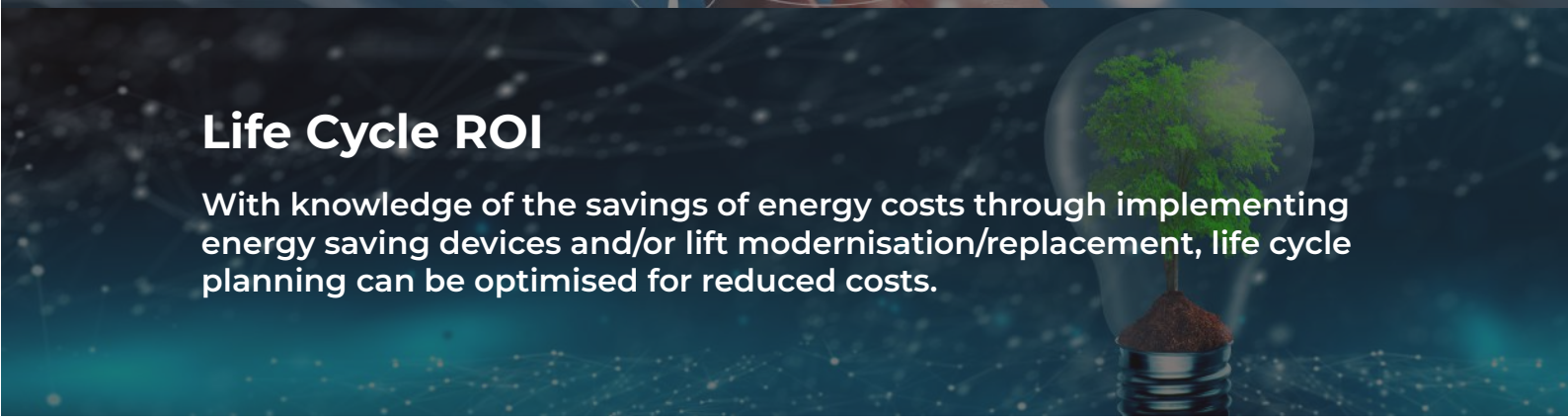
Environmental Sustainability

Lifts are a significant source of energy consumption in buildings. Monitoring and optimizing their energy use can contribute to a reduction in a building's overall carbon footprint, promoting environmental sustainability.



Validating ROI of energy saving devices and lift modernisation/replacement

The device can be installed before and after the installation of energy saving devices to validate the energy saving. Likewise, they can be installed before and after lift modernisation or replacement to confirm the energy saving.



Life Cycle ROI

With knowledge of the savings of energy costs through implementing energy saving devices and/or lift modernisation/replacement, life cycle planning can be optimised for reduced costs.

BENEFITS

Usage Profiling

Optimised Maintenance

By tracking the usage patterns, building managers can schedule maintenance and repairs more effectively. This can help in reducing downtime and minimizing disruptions for building occupants.

Energy Efficiency

Usage data can be used to optimise energy consumption. For example, lifts can be programmed to go into an energy-saving mode during periods of low usage, reducing operational costs.

Capacity Planning

Usage patterns can reveal trends in building occupancy, helping with capacity planning. For example, If certain times of day/week/month consistently show higher lift usage, this information can inform decisions about present occupation planning and, future building expansions or renovations.

Cost Saving

By optimising lift usage, building managers can extend the lifespan of lift equipment, reduce maintenance costs, and potentially lower energy bills, leading to cost savings over time.

Tenant Retention

An efficiently managed lift system can contribute to tenant satisfaction and retention. Businesses and residents are more likely to stay in a building where their daily routines are not disrupted by lift issues.

BENEFITS

In/Out of Service Monitoring

Service Provider Accountability

Having data on lift reliability allows building managers to hold lift service providers accountable for their performance and service level agreements.

Improved Service Availability

Downtime monitoring allows building managers to identify and address the root causes of lift downtime promptly. This helps minimize service interruptions and ensures that lifts are available when needed, reducing tenant frustration and inconvenience.

Proactive Maintenance

Knowledge of when the lift goes out of service or experiences issues allows building managers to schedule proactive maintenance and repairs. This can help prevent unexpected breakdowns and reduce downtime, which can be especially critical in buildings with heavy lift usage.

Reduction in Call-outs

Working on arrival callouts are frequent across the industry. The status on the lift can be monitored through the device firstly whether it is in/out of service. If it is in service, is it undertaking lift journeys and consuming energy? If the answer is yes, then this remote confirmation of the status can reduce abortive call-outs.

Reduced Tenant Disruption

Proactively addressing lift issues can minimize disruptions to building occupants, ensuring they have reliable access to the lifts. This can lead to higher tenant satisfaction and retention.

Tenant Communication

Building managers can use reliability data to communicate with tenants and building occupants. They can provide updates on maintenance schedules and expected downtime, managing expectations and minimizing inconvenience.

Data-Driven Decision Making

Reliability data can be used to make data-driven decisions about when to replace or modernize lift systems. It helps in optimizing capital expenditure planning for building upgrades.

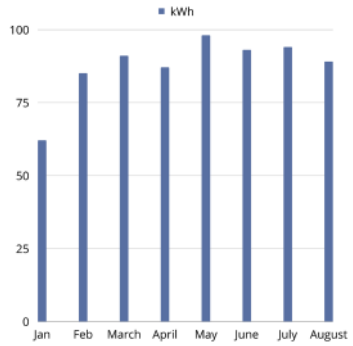
Monitoring and Reporting

Proactive Maintenance

Online Portal

Data-Driven Decision Making

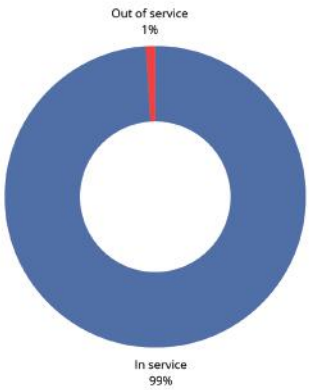
Energy Consumption 2023:



MONTH:	CONSUMPTION:	COST:
January	62.00 kWh	£21,08
February	85.01 kWh	£28,90
March	91.58 kWh	£31,14
April	87.75 kWh	£29,84
May	98.12 kWh	£33,36
June	93.84 kWh	£31,91
July	94.24 kWh	£32,04
August	89.47 kWh	£30,42

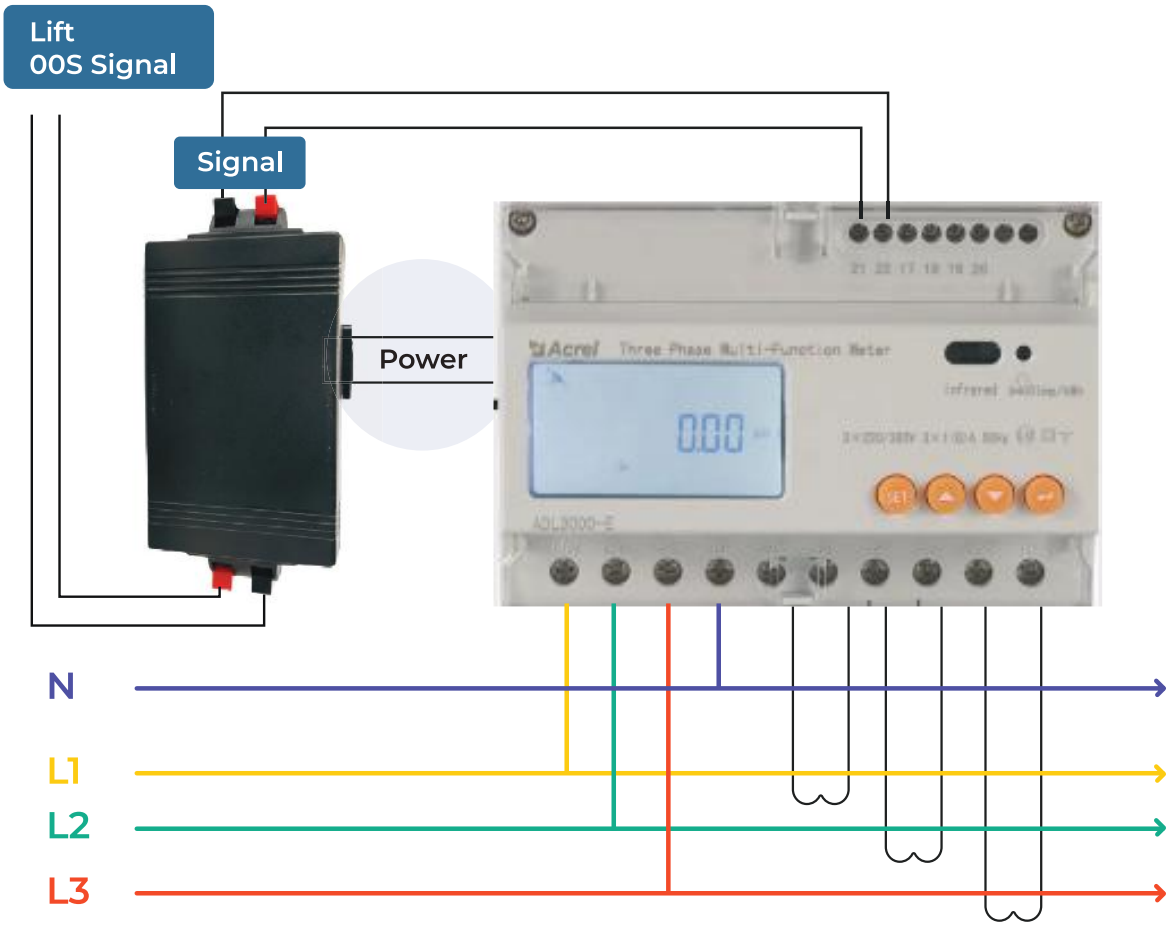
In/Out Service

Service Up Time: 06:00am - 08:55am



FROM	TO	DURATION
06:25	06:26	1m
07:57	07:58	1m
07:58	08:06	8m
08:33	08:36	3m

Lift Energy Meter Configuration



- Energy Meter din rail mounted in controller.
- IoT device placed inside/on the side/out side of controller - ensure WiFi/ GSM signal.
- Meter wired in parallel to main supply with current clamps on main supply.
- If an OOS signal from controller available this can be connected to IoT device.
- Maximum length wires between device and energy meter is 10m, Recommend is: 20-50cm.

THE SUSTAINABLE LIFT MODERNISATION

Specialists

INNOVATING TODAY, IMPROVING TOMORROW

DSW solutions was born with the aim to offer innovative business solutions for the lift industry. Whether you are looking to support your client's net zero targets, grow your business, or improve overall competitiveness, our team operates globally providing a intuitive approach to all of your modernisation projects. Our energy-saving products not only reduce carbon emissions but also provide a new revenue stream for your business!

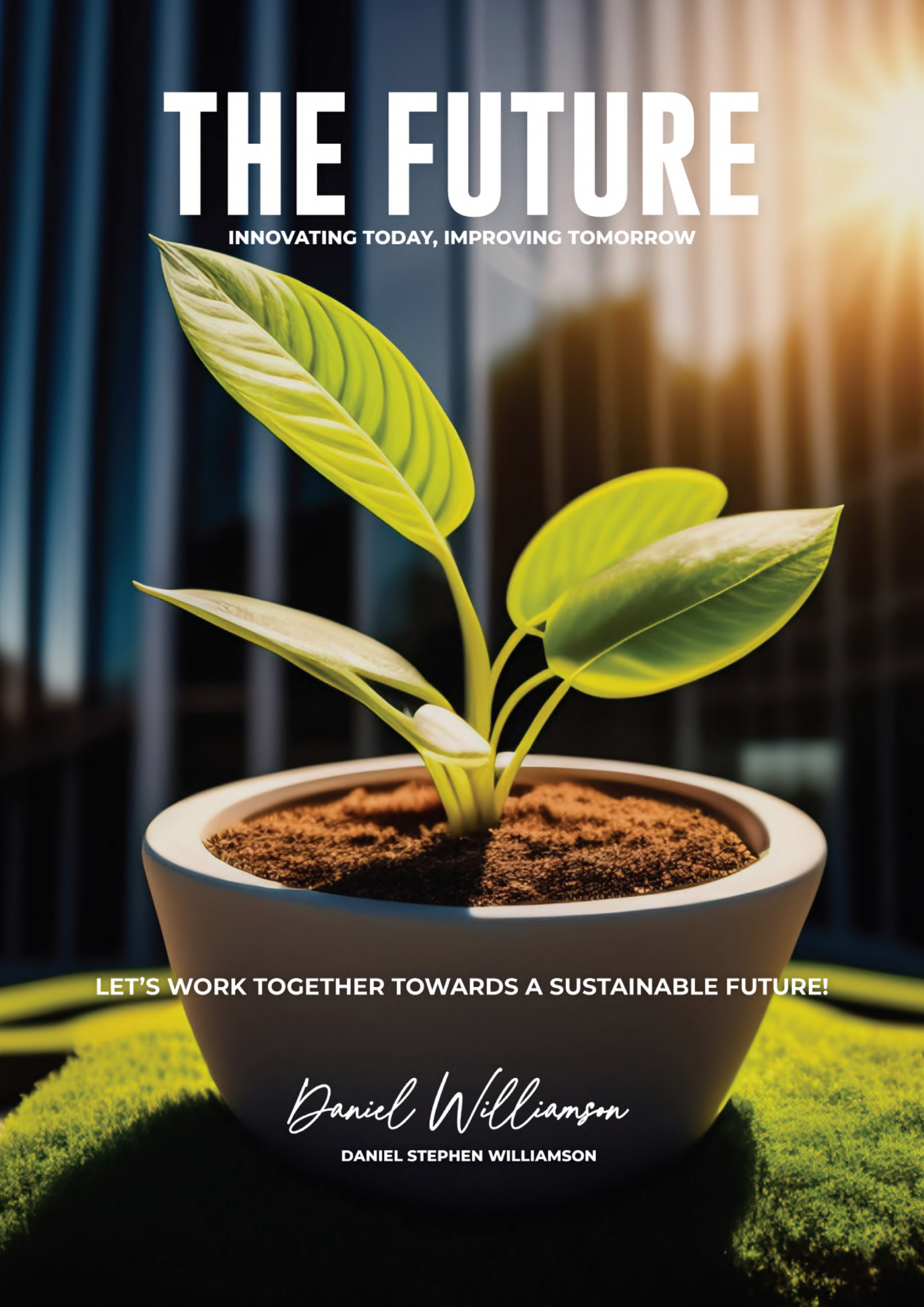
Our goal is simple: inspire the industry, improving the daily lives of many people whilst securing our future through energy efficient solutions.

Daniel Williamson

DANIEL STEPHEN WILLIAMSON

THE FUTURE

INNOVATING TODAY, IMPROVING TOMORROW



LET'S WORK TOGETHER TOWARDS A SUSTAINABLE FUTURE!

Daniel Williamson

DANIEL STEPHEN WILLIAMSON

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