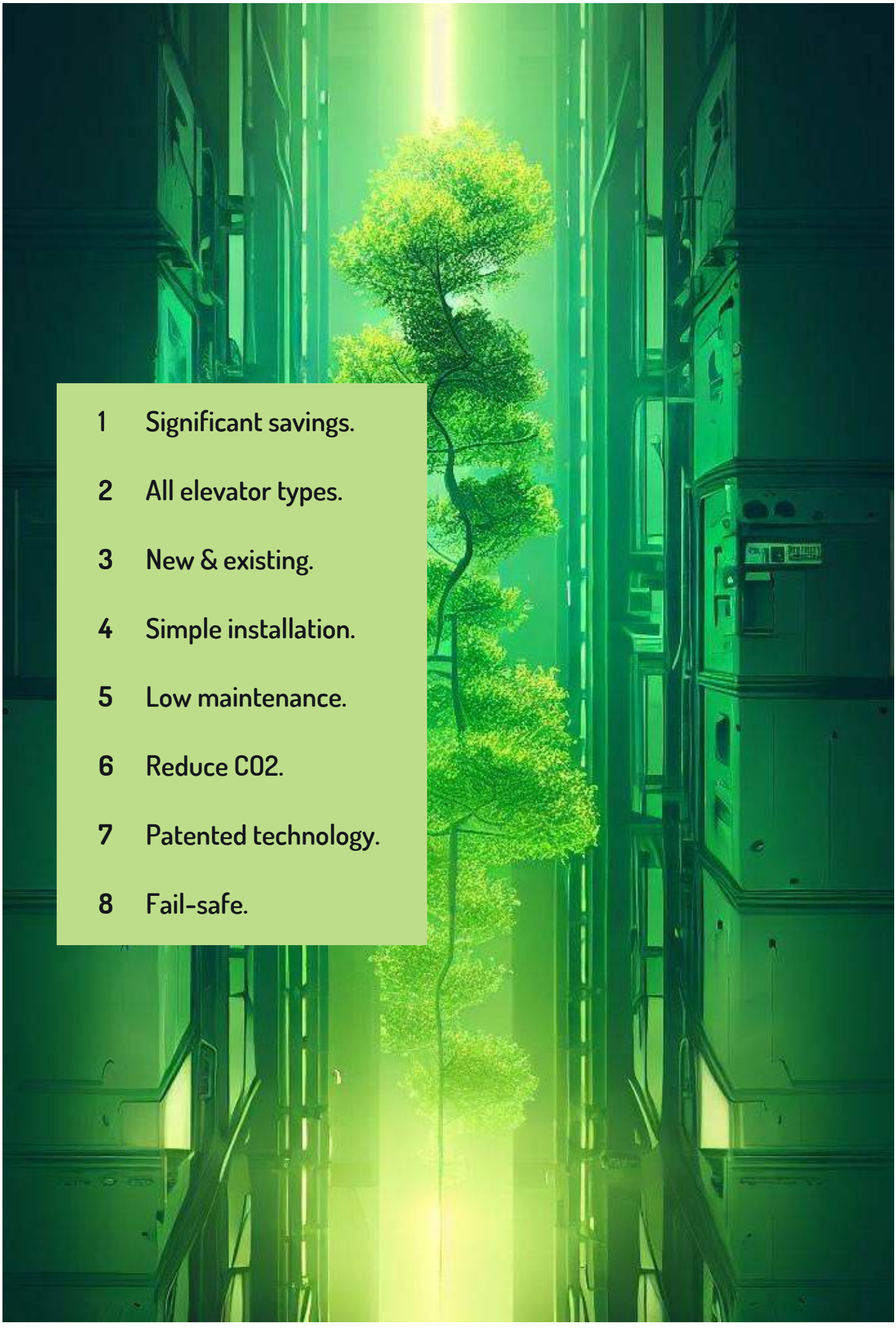
Enhanced Elevator Energy Saving System

By DSW Solutions


1 Significant savings.
2 All elevator types.
3 New & existing.
4 Simple installation.
5 Low maintenance.
6 Reduce CO2.
7 Patented technology.
8 Fail-safe.

Unbeatable Savings

THE PUREMOMENTUM SYSTEM SIGNIFICANTLY REDUCES ENERGY LOSS FROM THE ELEVATOR WHICH TYPICALLY OCCURS DURING IT'S NORMAL DAY TO DAY ACTIVITY.

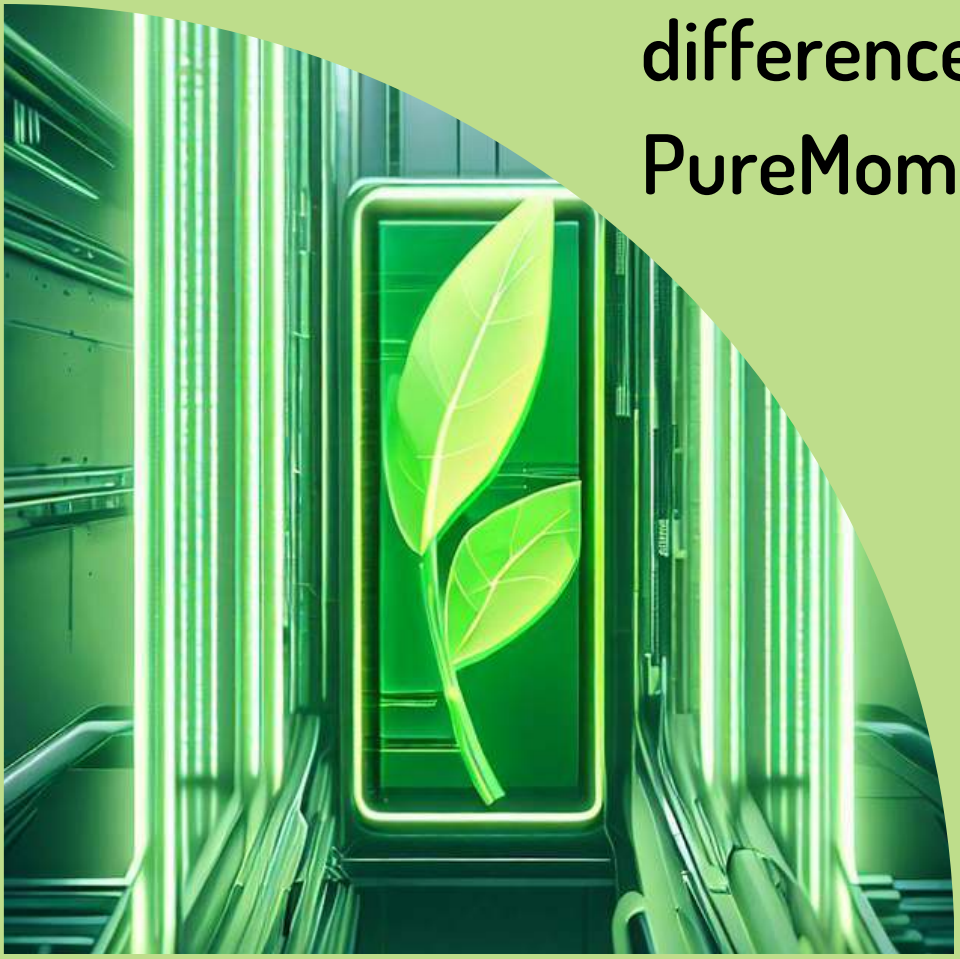
1_____ **SUITABLE FOR NEW OR EXISTING ELEVATORS:**
Simple installation with very low maintenance costs. Completely independent from the controller manufacturer, no interference with existing electronics.

2_____ **SIGNIFICANT ENERGY SAVINGS YEAR ON YEAR:**
Practically every elevator is suitable, contact us to review the excellent ROI statistics. Reliable smoke detection and demand-controlled ventilation.

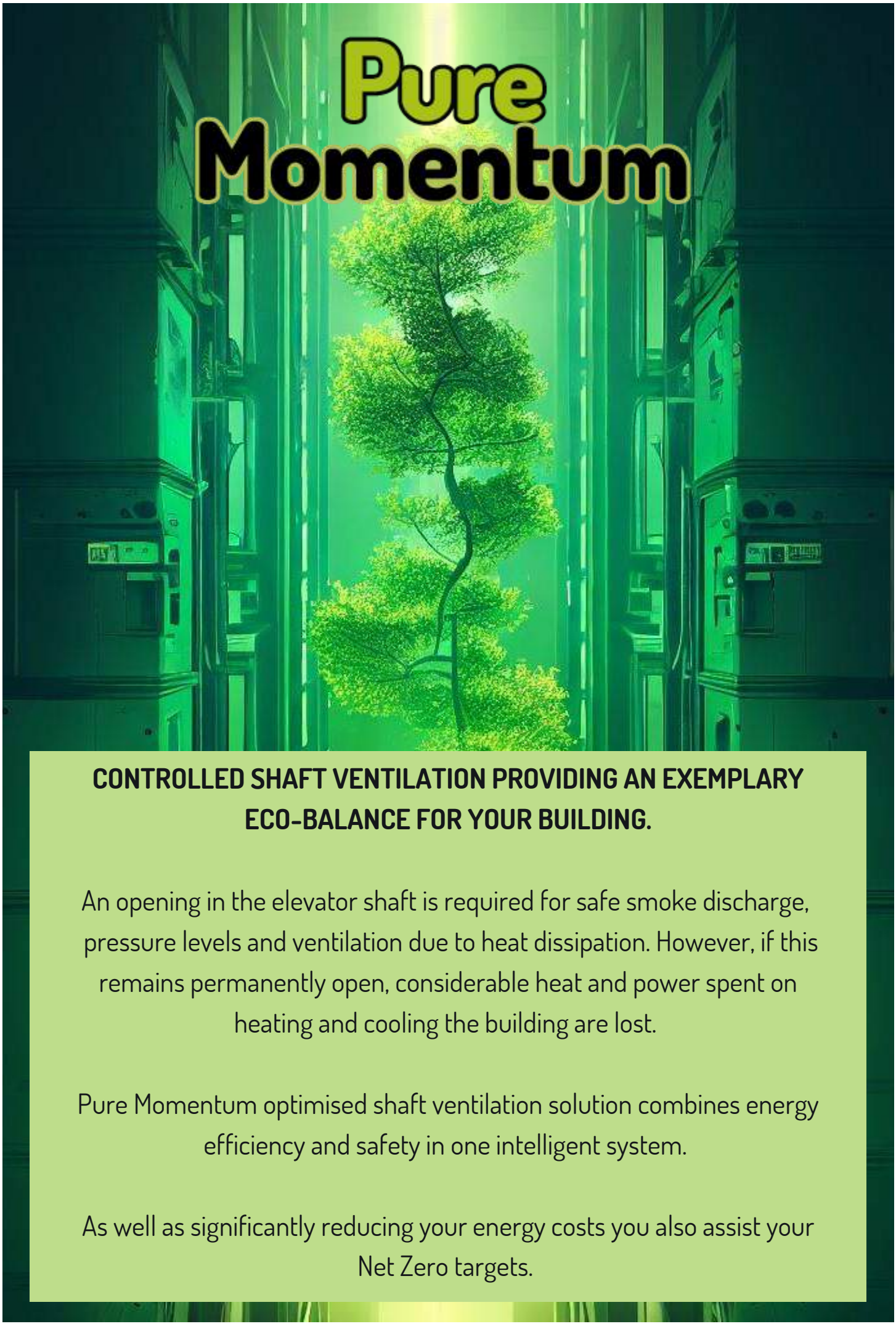
3_____ **PATENTED TECHNOLOGY:**
Fail-safe, state-of-the-art technology that also improves comfort and safety for passengers. Reduction of humidity, odours and cold draughts.

4_____ **REDUCE CO2 EMMISIONS:**
Boost your Net Zero initiative. Improve air quality.

It's time to make a difference with PureMomentum!



Significant CO2 reduction.



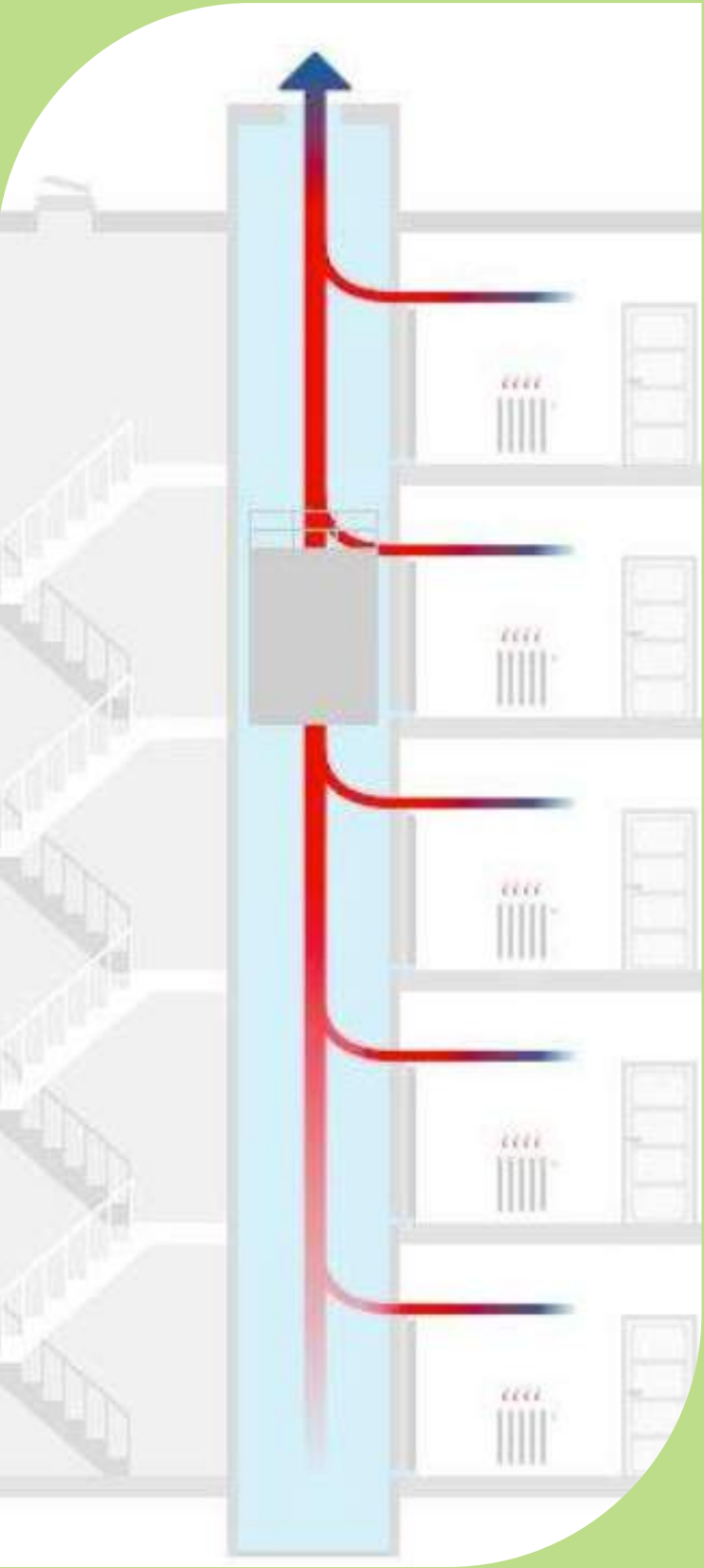
CONTROLLED SHAFT VENTILATION PROVIDING AN EXEMPLARY ECO-BALANCE FOR YOUR BUILDING.

An opening in the elevator shaft is required for safe smoke discharge, pressure levels and ventilation due to heat dissipation. However, if this remains permanently open, considerable heat and power spent on heating and cooling the building are lost.

Pure Momentum optimised shaft ventilation solution combines energy efficiency and safety in one intelligent system.

As well as significantly reducing your energy costs you also assist your Net Zero targets.

Pure Momentum



TYPICAL BUILDING SCENARIO:

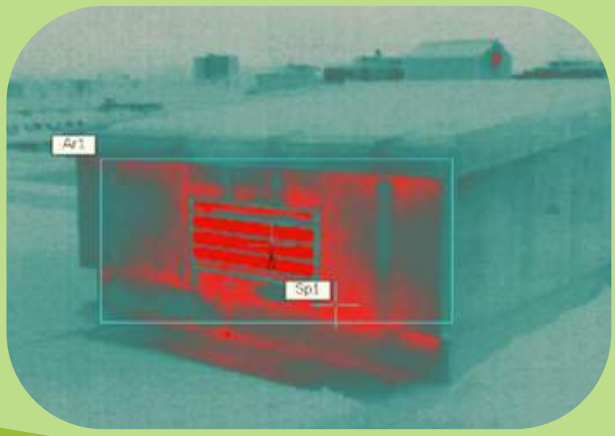
- EN81 regulations require ventilation.
- EN81.1/2 requested 1% of the elevator horizontal shaft surface area.

CONSEQUENCES - OPEN WINDOW EFFECT:

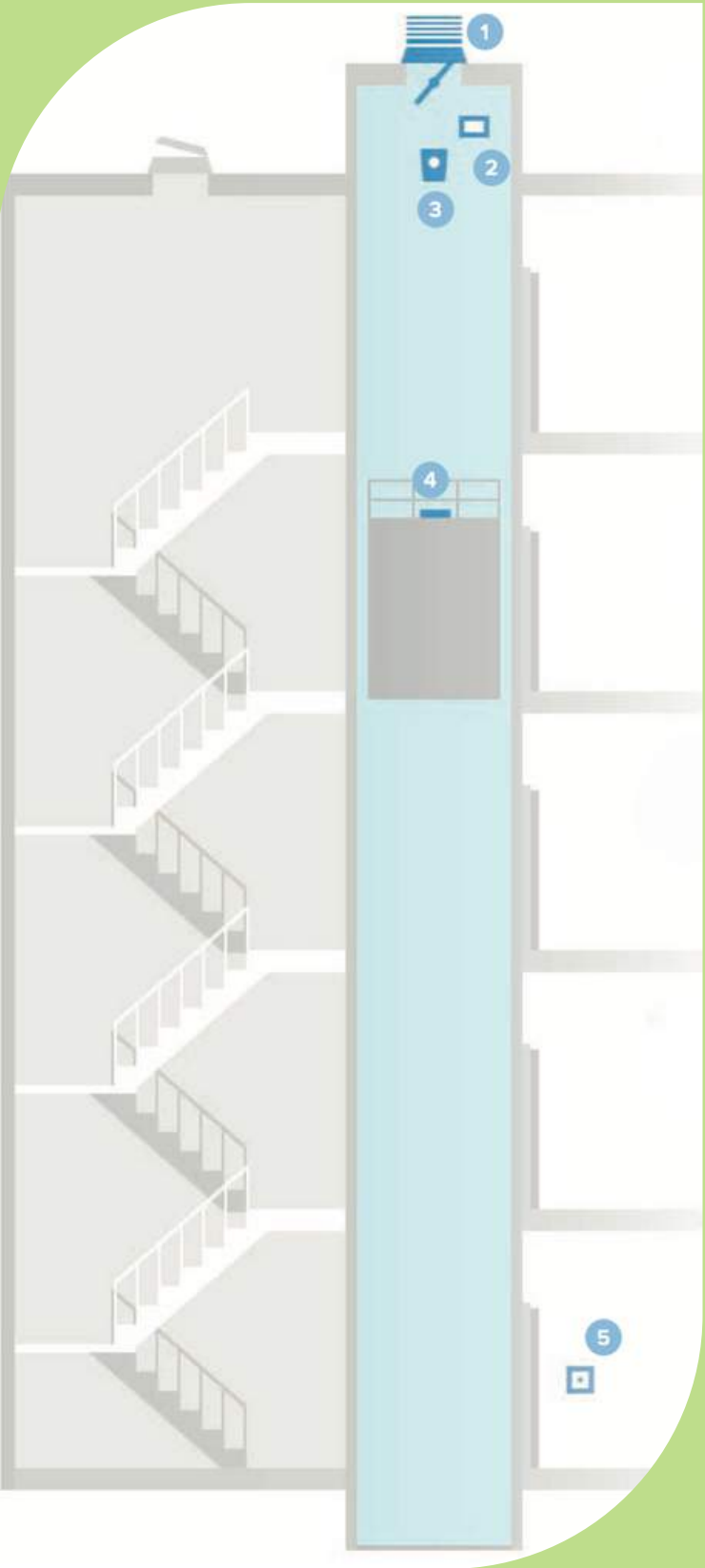
- There is a permanent opening at the top of the elevator shaft or inside the machine room.
- Heated or cooled air flows through the gaps in the elevator landing doors and leaves the building creating a chimney effect.

FACTORS TO CONSIDER:

- Internal and external temperatures.
- Month of the year.
- Shaft height.
- Elevator door size and configuration.
- Existing vent size.
- Type of heating system.
- Heating price.
- Vent position.



Pure Momentum



(1) VENTILATION ELEMENT:

- Side or top mounted, with or without a machine room.
- Numerous formats and sizes available including extra slim.
- Prevents energy losses due to uncontrolled escape of heated air.

(2) SYSTEM CONTROLLER:

- Stand-alone central unit with temperature sensor and extended connection options.
- Together with the transmitter, regulates the air quality in the lift shaft and car.

(3) SMOKE DETECTION:

- Throughout the entire shaft.
- Signal transmission to controller.

(4) CO2 LIFT STATUS TRANSMITTER.

- Integrated temperature, CO2 and acceleration sensors.
- Monitor trips and emergencies.

(5) MANUAL TRIGGER SWITCH.

- Optional.
- Manual triggering of a ventilation or smoke extraction command and system status display.

PROTECT OUR FUTURE

OUR EARTH, OUR HOME.

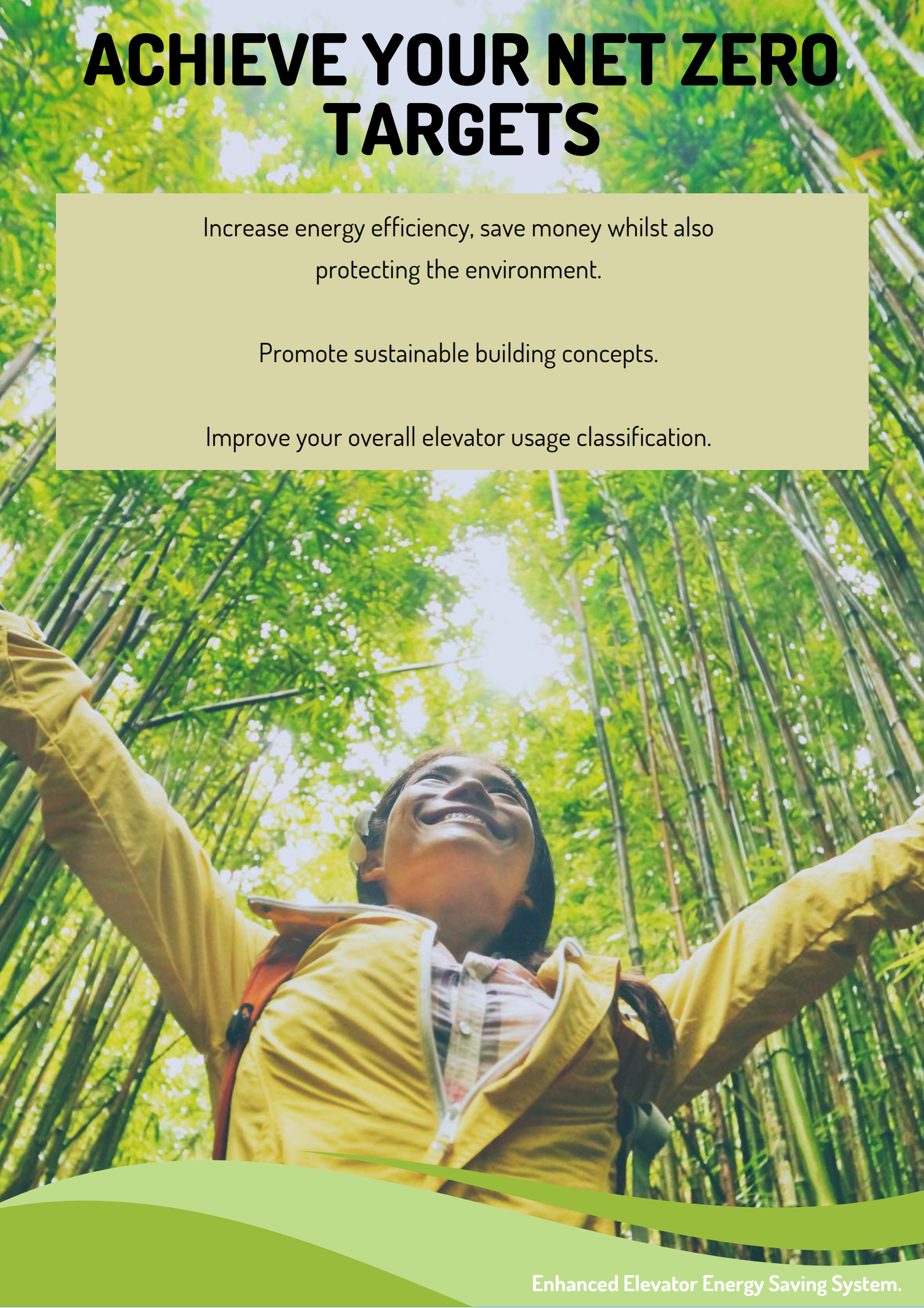
DSW Solutions is proud to offer a range of energy saving solutions to reduce the overall global impact from elevator usage.

ACHIEVE YOUR NET ZERO TARGETS

Increase energy efficiency, save money whilst also protecting the environment.

Promote sustainable building concepts.

Improve your overall elevator usage classification.



Enhanced Elevator Energy Saving System.

“The greatest threat to our planet is the belief that someone else will save it”

ROBERT SWAN

JUST HOW MUCH CAN BE SAVED?

- Review our range of case studies.
- C02 savings.
- Financial savings.
- Online monitoring options.
- Calculations are subject to building survey.
- 1% horizontal cross section area calculation considered.
- Contact us for a specific calculation.

DSW
SOLUTIONS

Technical Specifications:

- DIN EN 12101-10, ISO 21927-9 & CE Compliant.
- Patented technology.
- Operating temperature: -5 °C to +40 °C.
- Working range: Shafts up to 200m high.
- Suitable for single and group elevator shafts.
- Programmed direct from the factory.
- Easy commissioning by connecting the 230 V plug.
- BMS / Fire alarm connectivity.
- Fail-safe design with automatic triggering as standard.
- Suitable for Fire Fighting and Evacuation lifts whilst also facilitating period checks as per LEIA guidance.
- Calculations in accordance with ISO standards.
- Wireless radio tramission.
- Integrated accelaration sensor.
- Lightweight.
- With traction elevators it can be installed with the RegenMaster.

CASE STUDY: 1

- MRL elevator. 5 floors, single entry.
- Duty load: 630kg.
- Overall shaft height: 18,000mm.
- 2PSO doors: 900 x 2000mm.

Savings:

£683 per annum.

7,589 kWh per annum.

1,533 kg CO2 per annum.

Calculations are based on:
0,09 kWh/unit. CO2: 0,202 kg/kWh.
Internal temperature: 20 °C.

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CASE STUDY: 2

- MRL elevator. 7 floors, single entry.
- Duty load: 1000kg.
- Overall shaft height: 27,000mm.
- 2PSO doors: 1000 x 2000mm.

Savings:

£1,060 per annum.

11,781 kWh per annum.

2,380 kg CO2 per annum.

Calculations are based on:
0,09 kWh/unit. CO2: 0,202 kg/kWh.
Internal temperature: 20 °C.

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CASE STUDY: 3

- MRL elevator. 9 floors, single entry.
- Duty load: 2700kg.
- Overall shaft height: 32,500mm.
- 4PC0 doors: 1600 x 2100mm.

Savings:

£2,009 per annum.

22,736 kWh per annum.

5,290 kg C02 per annum.

Calculations are based on:

0,09 kWh/unit. C02: 0,202 kg/kWh.

Internal temperature: 20 °C.

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CASE STUDY: 4

- MRL elevator. 9 floors, single entry.
- Duty load: 1000kg gearless. 1,6m/s.
- Overall shaft height: 32,500mm.
- 2PSO doors: 900 x 2000mm.
- 1000 trips per day.

Savings:

£2,341 per annum.

20,902 kWh per annum.

4,278 kg CO2 per annum.

Calculations are based on:

Gas: 0,09 kWh/unit. CO2: 0,202 kg/kWh.

Electric: 0,34 kWh/unit. Internal temperature: 20 °C.

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DSW
SOLUTIONS

Uplifting elevator businesses globally!

DSW Solutions is proud to offer a growing range of product solutions for your project requirements. We cater for both new installations as well as modernisations.

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