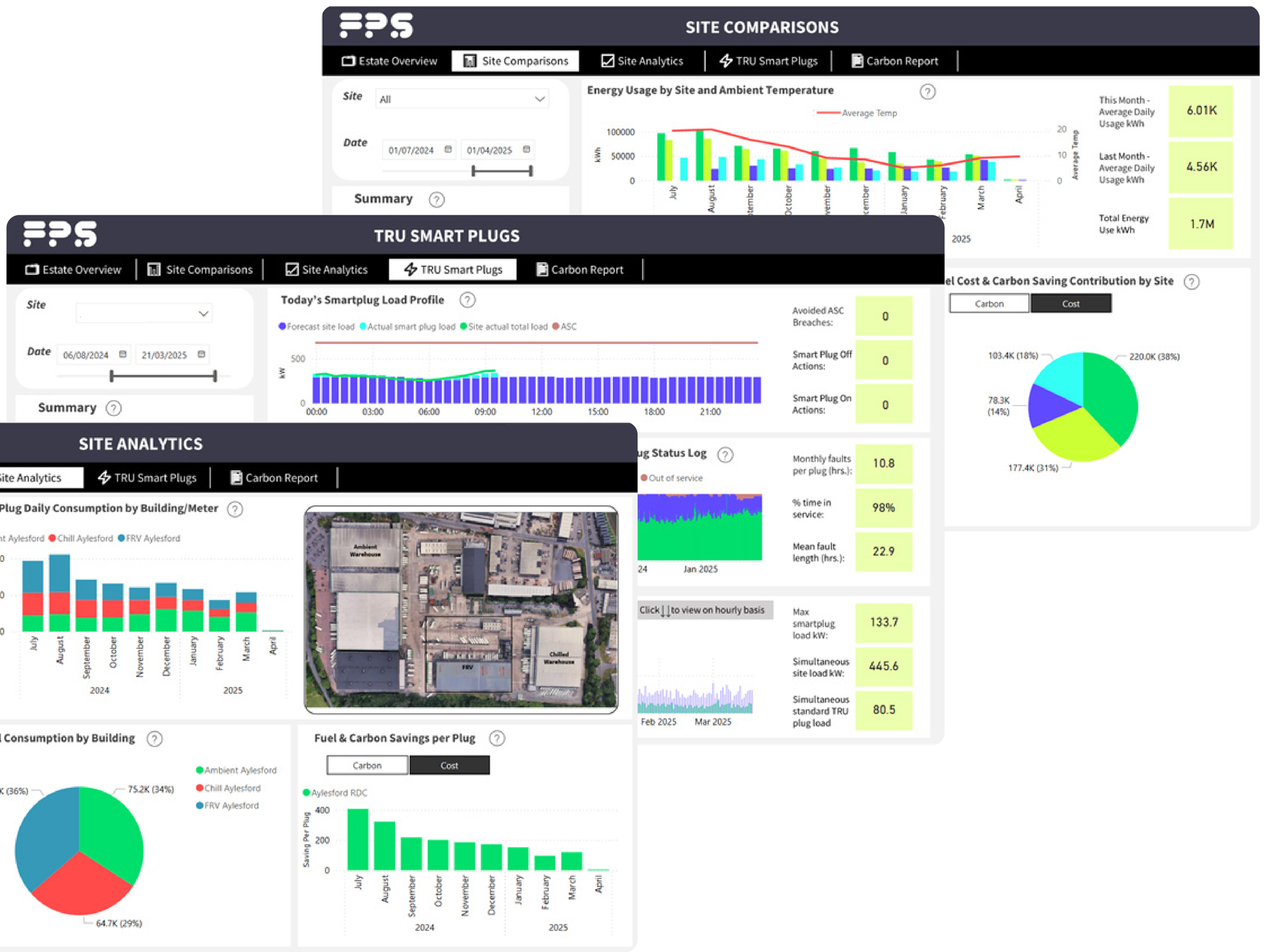


TRU Fuel Saver

Transport Refrigeration Unit (TRU) fuel saver cuts transport refrigeration unit emissions by reducing barriers to plugging in whilst in depot environments.

The system consists of a TRU smart plug and a smart management platform TRU Manager that monitors its status and controls output.

System Overview

TRU Fuel Saver has been developed to help fleets overcome key barriers to substituting electricity consumption for diesel use in depot environments namely:

- Site Power Constraints – through automatically monitoring and controlling power usage.
- Unreliable Infrastructure – by continuously monitoring and reporting infrastructure health
- Driver Engagement – by reporting usage and fuel savings so benefits and compliance are clear.
- Business Case Challenges – through continuous aggregated reporting of system savings vs BAU and enabling third party billing. TRU Fuel Saver has been developed to help fleets overcome key barriers to substituting electricity consumption for diesel use in depot environments namely:

Features

Power Management

TRU electrical consumption is intelligently managed to ensure fuel savings are maximised without breaching site power constraints.

- Factors accounted for include – current and historic electrical loads, specification/identity of TRUs plugged in and weather.
- Control granularity – is it at bay level applied at -5-minute resolution.

Monitoring and Reporting

The TRU Manager platform contains dashboards that provide continuously updated system reports.

- Live feeds include current power draw, plug status (in use, available, faulted) and system load control actions.
- Reporting and analytics cover energy use, utilisation, power demand, carbon savings, fuel savings and cost savings.
- Segmentation is available by site and locations within sites (e.g. warehouses).

Uptime

System uptime is improved vs unmanaged infrastructure to ensure savings are maximised.

- Plug design includes features like local RCD reset capability and cable management to avoid or resolve common faults.
- Remote monitoring is achieved through the TRU Manager platform monitoring both heartbeats and fault codes from the TRU Smart Plugs
- Alerts requiring action for faulted TRU Smart Plugs are communicated both by email and dashboard

System Requirements and Hardware Specifications

See FPS Specification Documents:

TRU Smart Plug Fuel Saver Integration Requirements

About Flexible Power Systems

Flexible Power Systems (FPS) is a UK based technology company that specialises in software solutions that unify operations and energy management for commercial vehicle fleets.

www.flexiblepowersystems.com

For More Information

Flexible Power Systems
info@flexpowerltd.com

+44 (0) 1342 360 240