Smart controls for a better world

DELTA DORE

APPLICATION SHEET

Sett d'Or

Trophées de l'innovation
Salon des équipements et techniques du tourisme

Open-air accommodation

Centralized technical management (CTM) meets the campsite manager's various needs.

It provides the tools to facilitate operation of the site, control consumption and optimize the conditions for receiving customers.

Your challenges

Reducing your electricity bill

- The total cost of the standing charge represents 20% of the electricity bill on average. Your consumption keeps on rising.

  How can you reduce these costs?

Distribute energy costs

- Understand what each equipment item consumes. What do the accommodation units consume (in air conditioning, water, electricity)?

  What does the infrastructure consume (swimming pool, toilet block, restaurant)?

Ensure comfort and safety

- Ensure customers' comfort and safety while respecting eco-labels' requirements.

  How?

Our solutions

> Control your installations

- Coordinate the operation of energy-guzzling equipment according to tariff periods and occupancy.

> Display and analyse consumption

- Remote metering of consumption (in the form of an energy dashboard) to respect eco-labels' requirements.
- Distribution of consumption by use (leisure, sanitary facilities, restaurant, etc.) and by energy type (electricity, gas, water, etc.).
- Switch to real billing by accommodation unit (rented and residential).

> Improve comfort and safety

- Centralized comfort control (consistent management of heated/cooled ambient temperatures, guaranteed minimum swimming pool temperature, temperature maintenance for domestic hot water).
- Monitoring of alarm systems (intruder alarms, smoke detectors, water leaks and circuit breakers).

Quick return on investment

The investment will pay for itself through the savings effected over 2 to 3 years.

Energy efficiency services

Our teams will assist you with the energy management of your camp site.

Multiple sites

Use the Powerbat® web portal to centralize control of all the camp sites.

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Technical implementation

Specific examples of possible actions in camp sites:

Controlling equipment

Heating the pool installations

- Take advantage of favourable off-peak rates to reach set temperatures.
- Load-shedding of batteries, heat pumps and circulating pumps to avoid consumption peaks.
- Maintenance of water temperature.

Catering

- Automated control of cooking equipment to optimize temperature increases.
- Calendar programming of operating periods for energy-guzzling equipment (chip fryers, rotisseries, etc.).

Link to reservation software

- Anticipate occupancy or overwintering and adapt comfort of mobile homes.

Radio-frequency sub-metering

Data collection

- Metering data from the accommodation units and utilities recovered by radio (RFID system).

Energy dashboard

- Metering data presented in the form of directly usable indicators.
- Distribution of consumption (by energy type, use, zone, pitch, etc.).

Real consumption billing

- Calculation of consumption index for individual billing of energy consumption.

The smart mobile home

Energy savings

- Presence detection to influence comfort levels (comfort temperature, lighting on/off).
- Hygrometric sensor acting on mechanically controlled ventilation.
- Lighting controlled by a light intensity sensor.
- Inclusion of the mobile home in an open load-shedding system.

Towards a 100% electric mobile home

- Maintenance of the existing electrical network (16A) by an integral load-shedder.
- Cost of domestic hot water production reduced with respect to gas.
- Savings on maintenance.

Ease of operation and safety

- Centralized comfort control (heating, lighting, mechanical ventilation, DHW, barbecue socket).
- Overwintering pack (freeze protection of water pipes, hygrometry control, maintenance of minimum indoor temperature).
- Monitoring of water and electricity meters.

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