



## Energy-efficient Life Cycle Management for SKIDATA Products

### SKIDATA Hardware & Software

- Optional lighting (automated ticket machines, gates) is equipped with the latest LED lighting
- Use of microcontrollers and embedded CPUs in the units with low power consumption
- Use of fan-free premium power supplies (pulse) with very high efficiency
- The compact equipment design minimizes material usage
- Heating and fans are only needed outdoors; temperature thresholds can be set individually
- Power to the gate motors is switched off completely when the barrier boom is in its end positions
- Column display and attached reader can be switched off and then activated only when a vehicle is on the presence detection loop (display lighting, coder, long-range reader)
- Use of control functions supported for external devices via internal I/Os (for example, external video camera when presence detection loop is dampened)
- Process control and monitoring functions via Operator.Service (for example, CO2 monitoring and switching off lights on vacant floors)
- Individual parking space monitoring: Help reduce traffic searching for parking in the garage
- SKIDATA Parking.Logic supports Windows Power Save mode
- No ink or other expendables needed for operation
- The equipment is constructed so that no lubricants or other resources are needed for operation.
- Long-life RFID cards as access medium reduce wear and tear and paper ticket consumption
- Certified paper tickets made of 100% recycled materials can be processed by SKIDATA systems
- Remote monitoring with remote software updates reduces the need for onsite service engineers.

### Production

Saving energy begins with the production of our systems. We take the following measures into account:

- Heat recovery for wave soldering machines and reflow ovens. Soldering irons switch to standby mode
- Soldering flux replaced with aqueous base
- Warm water generation via waste heat from air compressor
- Heating of automatic high-shelf storage facility via waste heat from air compressor
- Use of water-tight finishes.
- Multi-use packaging for serial parts
- No air conditioning units in the production areas
- Care in sorting garbage

### Logistics

Optimized logistics helps to save on fuel:

- Centralized logistics and delivery warehouses reduce transport distance from supplier to client
- Regional proximity of production partners reduces transport distances
- Systems are typically delivered directly from warehouse to construction site.

### Service

By developing test units and test software for SKIDATA systems, we ensure efficient troubleshooting and enable components to be repaired locally.

SKIDATA supports the initiative

**"Wir tun was für den Klimaschutz"**

(We are doing something for climate protection)

