

ECODESIGN



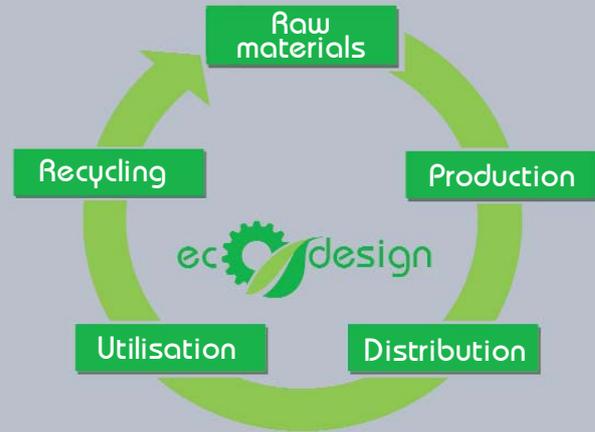
ECODESIGN. Intelligent use of resources.



HECTRONIC AND THE ENVIRONMENT - what we do.

HECTRONIC GmbH - a company specialized in the development of innovative parking and refuelling systems. The headquarters are located right in the middle of the scenic Black Forest in Southern Germany, between traditional manufacturers of cuckoo clocks and Black Forest cakes. The regional patriotism of HECTRONIC and its employees is perhaps a reason why environmental protection is such a fundamental component of the company philosophy.

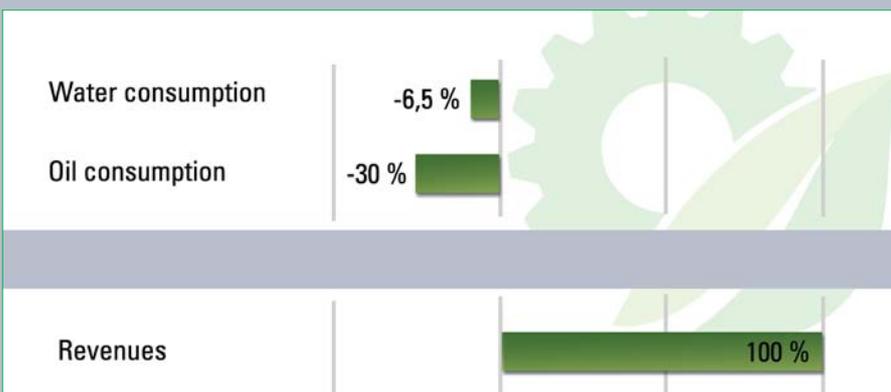
Environmental concerns are implemented on the basis of the EcoDesign concept. This means that the product lifecycle is considered as a whole, starting from raw materials extraction to manufacturing, sales, use, and finally disposal or recycling. HECTRONIC generates energy balances for each of its products and internal processes in a continuous procedure. Conclusions derived from this information allow the company to continually implement improvement measures.



"EcoDesign - to achieve the best possible benefit for manufacturer and customer with an intelligent use of available resources and a minimum environmental burden under socially fair conditions."

What we do for the environment?

- The modularity of our equipment allows us to manufacture highly different products from the HECTRONIC portfolio customized to specific requirements by using only a few basic modules. This flexibility in both the manufacturing and recycling process is especially environmentally-friendly.
- Our device housings are made of aluminum. A particular advantage of aluminum is its long service life, and another is the excellent recycling rate of 100 percent. Aluminum can be processed any number of times to secondary aluminum without a loss in quality. The re-processing procedure (secondary aluminum) requires only 7 percent of the energy necessary to create primary aluminum. In the light of these facts, we use a very high percentage of secondary aluminum in our production.
- HECTRONIC gears its products and internal work processes to strict environmental protection criteria and satisfies all the statutory requirements (Waste Electrical and Electronics Equipment Directive [European Union] and Reduction of Hazardous Substances Directive [European Union]).



Savings of Hectronic GmbH in the last 10 years while doubling sales revenue.

Success in the last decade

In the past ten years, HECTRONIC has been able to reduce its light fuel oil consumption by 30 percent through intelligent and environmentally-friendly handling of resources, and to save 6.5 percent in water consumption. During this same period the company doubled its sales revenues and expanded its production space by 20 percent.

PARKING. Advantage through experience.

Since the very beginning of controlled utilization of parking resources, HECTRONIC counts among the leading suppliers of modern parking resource management solutions. The requirements of this sector have continually grown over the years. Studies show that city traffic is significantly burdened by drivers looking for places to park. Therefore cities need intelligent and powerful parking systems in order to improve the strained traffic situation and minimize the resulting environmental burden (CO₂, particulate matter, noise).

Save 8.000 kilometers



A CITEA parking ticket machine, when optimally used, can save as much on CO₂ emissions over its lifecycle as a VW Golf (2.0 TDI, 110 PS) emits driving for 8.000 kilometers.

HECTRONIC sets standards in environmental protection

- As one of the first companies on the market, in the year 1994 HECTRONIC delivered the first parking ticket machines operated by solar cells.
- In 1996 the brand new trunked mobile radio technology came on the market, which was able to considerably optimize service intervals.

Today HECTRONIC presents *smart Parking™* integrated parking system solutions of the latest generation for on-street parking. With the CITEA parking ticket machines and CityLine parking management software, we are offering a comprehensive, intelligent, and energy efficient parking resources management system for the 21st century.

HECTRONIC products play a considerable role in mobility in cities worldwide. This imposes a responsibility on the company to continuously improve the long-term environmental compatibility of its products. Certainly we don't want to conceal the fact that parking ticket machines also have an impact on the environment, but simply explain the ecological and economical saving potentials of our machines.

What can you do?

- With the help of intelligent CityLine software, trips to empty the machines have been reduced to a minimum, saving costs and energy and cutting the CO₂ emission by 72 percent.
- Reduce the paper length of the tickets. Every saved centimeter reduces CO₂ emission by 15 percent.
- The consequence of using cashless payment procedures is a CO₂ reduction of 20 percent.

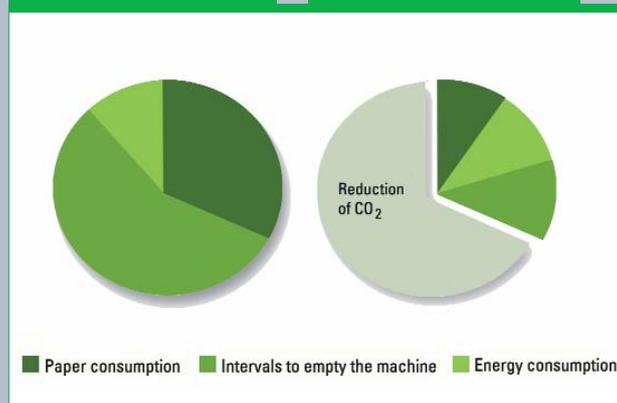
Recycling rate: 97 percent

Scenario 1:

mains operation
money emptying - daily
ticket length 180 mm

Scenario 2:

solar
money emptying - 5 days
ticket length 68 mm



CO₂ savings potential through energy-efficient use of our parking ticket machine



REFUELLING. Ecology through modularity.

In the refuelling sector, HECTRONIC offers a comprehensive product portfolio. The HecStar is considered as an innovation on the market of public filling stations. Its flexible usage, reliability, long service life and primarily its modularity are all features enhanced by its positive ecological aspects.

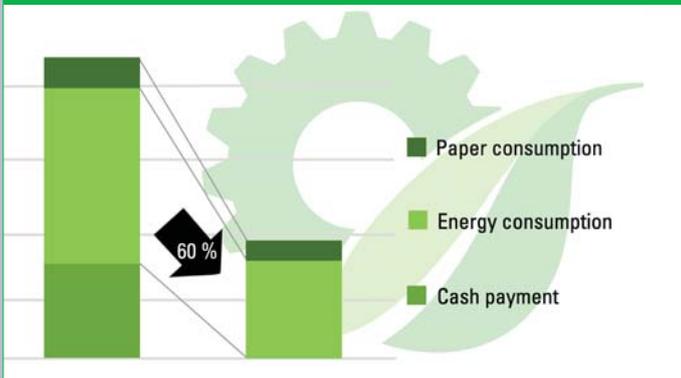
Due to the modular design of our equipment, all existing HECTRONIC machines can be quickly upgraded to state-of-the-art technology with retrofit packages in an environmentally friendly manner. The system saves money for the customer and valuable resources for the environment. We can do service work on your HECTRONIC machines via remote maintenance, which omits cost-intensive and environmentally polluting customer service visits. HECTRONIC offers all fuel terminals with modern LED technology. LEDs provide the same brightness as conventional fluorescent tubes, but consume only a maximum tenth of the energy. The service life of fluorescent tubes is around 10.000 hours, whereas LEDs keep illuminating for up to 70.000 hours and contain no mercury detrimental to health. The LEDs are very robust, have low energy consumption, generate hardly any heat, and are easier to recycle.

Scenario 1:

cash payment
continous operation
ticket length 230 mm

Scenario 2:

cashless payment
night operation
ticket length 145 mm



60 percent less CO₂ through intelligent use



What can you do?

- For a lifecycle of twelve years, using cashless payment procedures results in up to 2.800 kg less CO₂ emitted into the atmosphere.
- By shutting off the fuel terminals during daily operation (twelve hours), an annual saving of up to 2.300 kg CO₂ is possible.

Recycling rate: 98 percent



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SENSOR TECHNOLOGY. Smart level gauge management.

If tank contents are the issue, then you are absolutely at the right address at HECTRONIC. The level gauge management system OPTILEVEL is the ideal product here. The gauges work according to a capacitive measuring method and are made of robust, durable stainless steel.

In the OPTILEVEL sector we achieve a recycling rate of 97 percent (according to ISO Standard 22628). The quality of our products guarantees minimal service expenditure. Our wireless gauges are not bound in any way to existing infrastructures, and apart from great flexibility you save cost-intensive, environmentally detrimental reconstruction work.

In any case OPTILEVEL provides you not only with important information about the fill volume, but also detects any leaks in the tank at an early time. This function allows you to immediately intervene and prevent serious ground pollution.

