

BODET TIME gives concrete expression to its eco-design approach by launching the Profil 930 L solar clock, providing a fully autonomous energy supply

A solution designed with the photovoltaic technology of ASCA, an ARMOR GROUP company



As international leader in time display, time and audio systems synchronisation as well as energy price display, BODET TIME provides a true innovation by developing the first eco-designed solar clock: the Profil 930 L, an analogue clock providing a fully autonomous energy supply. Designed to be installed in all types of facilities, this clock can be found in the education, transport, industry, health and community markets. This product is the result of the eco-design approach carried out by the industrial and family group BODET in order to reduce the environmental impact of its activities.

In order to reduce the carbon impact of this clock throughout its life cycle (design, components, operation, recycling), the TIME activity of the BODET TIME & SPORT subsidiary (180 employees, turnover 2022: 27 M€) relied on the expertise of ASCA, the global leader in organic photovoltaics (OPV).

Wireless and without any batteries, the Profil 930 L clock is powered by an ASCA® solar solution, ensuring complete energy autonomy under artificial or natural lighting conditions, for at least 10 years.

From the first tower clock in 1868, to the first standalone solar clock

In 1868, Paul Bodet, craftsman and cabinetmaker, installed his first clock in the bell tower of the Trémentines church (France). Since then, five generations have succeeded at the head of the BODET group, international leader of time measurement and management. Within its TIME activity, BODET designs and manufactures made in France analogue and digital clocks installed in schools, healthcare facilities, industrial sites, train stations and airports. In 2022, more than 30,000 clocks have been sold worldwide.

Known for its many innovations, BODET TIME puts its experience to good use in its ecological approach. To assert its commitments to respecting the environment and reducing the impact of its activity and products, BODET TIME designed this brand new Profil 930 L clock, in an eco-design and circular economy approach.

Anthony Boigné, Product manager at BODET TIME, explains: *“We have considered all the possibilities in order to reduce the environmental impact of this clock, be it during the different steps of the manufacturing, during use, until its short-circuit recycling. Each component has been selected for its low carbon footprint while maintaining a high level of performance, free of rare metals and favouring some bio-based, recycled and reusable materials from our own production lines. The expertise of ASCA was decisive as it specifically met our specifications and allowed us to benefit from a renewable energy source thanks to organic photovoltaic cells. The completion of this approach is the first step and we want to keep using the energy harvesting process for our future products...”*

A fully eco-designed solution

All the electronic elements and materials which make up the Profil 930 L clock have been integrated in an eco-design and circular economy approach.

Light (0.8 kg), it is available in two colours (black and white), and its parts have been designed in recyclable and recycled thermoplastics. The wall and cell brackets are made of 100% recycled material from BODET TIME workshops, as is the material injected for creating the background of the black version of the clock. Eventually, the ASCA® organic photovoltaic solution integrated to the clock is completely recoverable and has no rare or toxic components. It also features a low carbon footprint.

From design to packaging, the Profil 930 L offers a virtuous solution. Indeed, the box used for packing the clock is made of recycled material and can be closed without using any adhesive tape. Plastics have been replaced by tissue paper to ensure better protection of the product.

A solar clock providing a fully autonomous energy supply

The Profil 930 L analogue indoor clock from BODET TIME is powered by two ASCA® solar cells. Very light sensitive, the organic photovoltaic film designed by ASCA is particularly effective in low-light

environments. It is also capable of generating energy in an indoor environment and under artificial lighting conditions such as in an office or in a hallway.

As such, the Profil 930 L is operational from 100 lux (corresponding to the European standard of minimum level of illumination to be maintained in an indoor circulation area such as a hallway in the workplace). Combined to the patented energy storage system from BODET TIME, the Profil 930 L clock operates without batteries, thus allowing the user to reduce waste, as well as logistics and maintenance costs that would be necessary to maintain or replace them. Last but not least, the Profil 930 L clock has a radio synchronisation (DHF). Therefore, no wiring is required, and it makes it compatible with all the DHF products from the BODET TIME range.

Innovation for the energy transition

Thanks to ASCA® photovoltaic modules, the Profil 930 L solar analogue clock from BODET TIME offers new, innovative and low-carbon time display solutions, at a time where the energy and ecological crisis is challenging our frame of reference.

“The International Energy Agency projects the stock of connected devices worldwide to increase from 20 billion to about 45 billion between 2020 and 2030 ^[1]. For their part, ADEME (The French Agency for Ecological Transition) and ARCEP (France’s Electronic Communications, Postal and Print media distribution Regulatory Authority) correlate the growth of the connected devices market with an increase of more than 200 TWh of additional consumption by 2025 worldwide ^[2]. As we are facing an energy crisis, it has become crucial to provide innovative solutions for the energy transition. At ASCA, we support manufacturers by developing tailor-made energy harvesting solutions that can be easily integrated to sustainably power all types of connected devices with ambient light without having to use any batteries. Rethinking the energy model is a tremendous vector of innovation, as illustrated by the eco-designed clock from BODET TIME”, concludes John Fiske, Business Development Manager at ASCA.

[1] IEA (2019), [Total Energy Model for Connected Devices](#), IEA 4E EDNA, technology cooperation program of the International Energy Agency, June.

[2] Out of a global digital consumption expected to be between 5,700 and 7,300 TWh per year. Source: Citizing, KPMG and Virtus management (2020), [Étude relative à l'évaluation des politiques publiques pour réduire l'empreinte environnementale du numérique](#), study carried out at the request of the Senate Committee on Regional Planning and Sustainable Development, June ; Hugues Ferreboeuf, hearing on 28 October 2021.

About BODET TIME - www.bodet-time.com

Subsidiary of the BODET group, BODET TIME is the global leader in time display, time synchronisation, audio systems and energy price display. For more than 40 years, BODET TIME has been designing made in France solutions dedicated to:

- time display: analogue and digital clocks combining aesthetics and time accuracy;
- time synchronisation: master clocks and time servers which send identical time to a network of clocks or to all types of IT devices;
- audio systems: speakers for broadcasting bells and alert messages, microphones for broadcasting general announcements;
- LED display: LED displays for advertising, energy (e.g. fuel, electricity, hydrogen) price totems and hotel price totems.

BODET TIME references include the Musée d'Orsay, Houari Boumediene Airport of Algiers, Barclay's Bank of London, Saint-Jean train station of Bordeaux, CGK airport (Jakarta - Indonesia), Paris-Sorbonne University of Abu Dhabi (United Arab Emirates).

The TIME activity benefits from the strength of the BODET TIME & SPORT subsidiary which has 180 employees among which 40 work in the R&D department. In 2022, BODET TIME & SPORT achieved a turnover of 27M€ (+20% growth as compared to 2021).

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About ASCA

ASCA designs and develops smart, customized and flexible solar energy solutions with a low carbon footprint on an industrial scale for its international partners. The 60-strong team of experts is spread across sites in France and Germany. ASCA is a subsidiary of ARMOR Holding. ARMOR is a manufacturer specialized in the formulation of inks and in thin film coating. The group is the world leader in the design and manufacture of thermal transfer ribbons for variable data printing for traceability on labels and flexible packaging. ARMOR has a global presence and employs approximately 2,450 people in more than twenty countries. The company generated sales of €403 million in 2021. www.asca.com

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