**CAPESTONE CUSTOMER CASE****FACTORY ZERO**

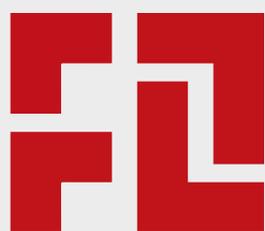
**“Within 5 years
we are the biggest
competitor of fossil
energy companies”**



Capestone spoke with Jan Willem van de Groep from Factory Zero from Tiel. Supplier and producer of climate and energy modules. Factory Zero is the first start-up that focuses entirely on the development of ZOM (zero on the meter) concepts in combination with far-reaching industrialization.

**FACTORY ZERO**

With a common goal of achieving an energy transition, Jan Willem and three like-minded people came up with Factory Zero in 2016. Building and renovation must be faster, cheaper and more sustainable. This requires a radical change in the prevailing construction; from the traditional craft to the application of industrial technologies. In 2017 the first compact architecturally integrated energy module was a fact. With the first product, the iCEM (integrated climate and energy module), Factory Zero promises to guarantee a healthy and comfortable indoor climate that fully meets the conditions of the Energy Performance Fee Act and the Building Decree. The module provides a home with conditioned, healthy air, heat and ventilation.

**FACTORY ZERO**

“The iCEM combines the smart control of heat recovery with heat pump technology. This plug and play system is integrated and assembled on site within a day. Thanks to the all-in-one concept, it takes a lot of work off for construction employees. Fewer people are needed during the renovation and the home is made energy-neutral in no time. Important benefits due to the shortage of well-trained employees on the construction site. For new construction you can see that we strongly integrate the energy module in terms of construction. We even deliver a piece of roof. In existing construction, the module is placed outside.”

CAPESTONE CUSTOMER CASE

FACTORY ZERO



Monitoring linked to performance guarantee, maintenance and servicing

“The iCEMs from Factory Zero not only offer many building benefits. The supplier of the property, the landlord and the resident have the option, depending on the options chosen to read out the performance data of the module, at different aggregation levels. All energy flows and the PV system are monitored in real time. From energy use to the air quality inspection of the home.

For Factory Zero, this is especially important for efficient maintenance and servicing and to reduce the costs thereof. To be able to read the data from the modules the Teltonika RUT240 and the RUT950 are used. Robust sustainable routers with aluminum housing. A managed cloud service offers us the possibility to be able to monitor and manage the modules remotely. We were advised in product selection by our regular software partner, who brought us in contact with Capestone for 4G hardware. An expert party with short lines and direct delivery. “

Simple and affordable energy-neutral living

“The iCEMs from Factory Zero are frequently used by various builders in both renovation as new construction projects. For Factory Zero, the challenge lies primarily in scaling up. Factory Zero wants to make its offer simple, affordable and accessible to everyone. For construction companies and for individuals. To make this type of product attractive to the private individual prices must fall by at least 40%. This requires that in a simple way complex products, with the greatest possible modification factor, in large numbers are getting produced. We are convinced that all Dutch households can live in an energy-neutral home within 20 years and that we can grow to become the largest competitor of fossil energy companies within 5 years.”

THE FACTORY ZERO PROBLEM

The data from the modules had to be read for maintenance and servicing, to be able to implement their PV systems efficiently and cost-effectively.

CAPESTONE SOLUTION

Thanks to the robust Teltonika RUT240 and RUT950 4G LTE routers the modules now become remotely and real time managed. From energy consumption to air quality inspection of the home.



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