

CUSTOMER CASE SPINELLI

Saving more with less **Vantaan Energia and BaseN** **bring effortless energy** **awareness and real-time savings** **to the smart apartment**

With construction and energy companies striving to offer increasingly sustainable, smart and safe living options to residents, BaseN paves the way for them to roll out sophisticated energy management systems cost-efficiently. NCC, one of the leading construction companies in Northern Europe, completed the two Spinelli apartments in late spring 2015 in Vantaa, Finland. The integration of BaseN's groundbreaking analytics and the hourly energy price service provided by Vantaan Energia enables the buildings' residents to easily achieve savings.

BaseN realizes an apartment specific, real-time, electricity and water energy management system for all 58 apartments in the two Spinelli houses. The consumption information is also stored and analyzed historically and the apartments' residents gain insights into their consumption behavior through customer portals accessible from smartphones, tablet or computers.

Further, BaseN's Internet of Things (IoT) platform brings enhanced safety to the Smart Home. The apartments' residents are notified via SMS if electricity or water is consumed in their apartments abnormally while no one is at home. This allows early detection of e.g. water leakages and preventing potential risks.

Baseⁿ

Apartment-specific, real-time, **electricity and water energy management system**

Advanced demographic water and electricity **consumption comparisons**

Groundbreaking analytics

Next day's **hourly energy price** information to enable saving

Quick and **cost efficient** implementation

WHAT

- Bringing the Internet of Things to the apartment building
- Enable accurate billing and saving through real-time information on the energy price at a specific point in time
- Provide powerful analytics that allow comparisons between households with equal family size
- Quick and easy device and service failure detection

WHY

- Create new customer-centric services as an advanced energy company
- Enable households to reduce their carbon footprint and to achieve real savings
- Avoid water damages and detect faulty electricity devices early on

HOW

- BaseN Platform collects, stores, analyzes, visualizes and controls data from water and electricity meters as well as specific sockets in real-time
- BaseN provides a user-friendly and intuitive user interface, accessible anytime and anywhere
- Through gamification energy saving behavior is stimulated in individual households
- Households with same family size can compare their consumptions

BaseN powers a new approach to energy and water savings in individual apartments

UNDERSTANDING ELECTRICITY AND WATER CONSUMPTION

Enhanced customer portals allow residents to track their energy and water use in real time. The portals can be accessed via web browser, tablets or smart phones.

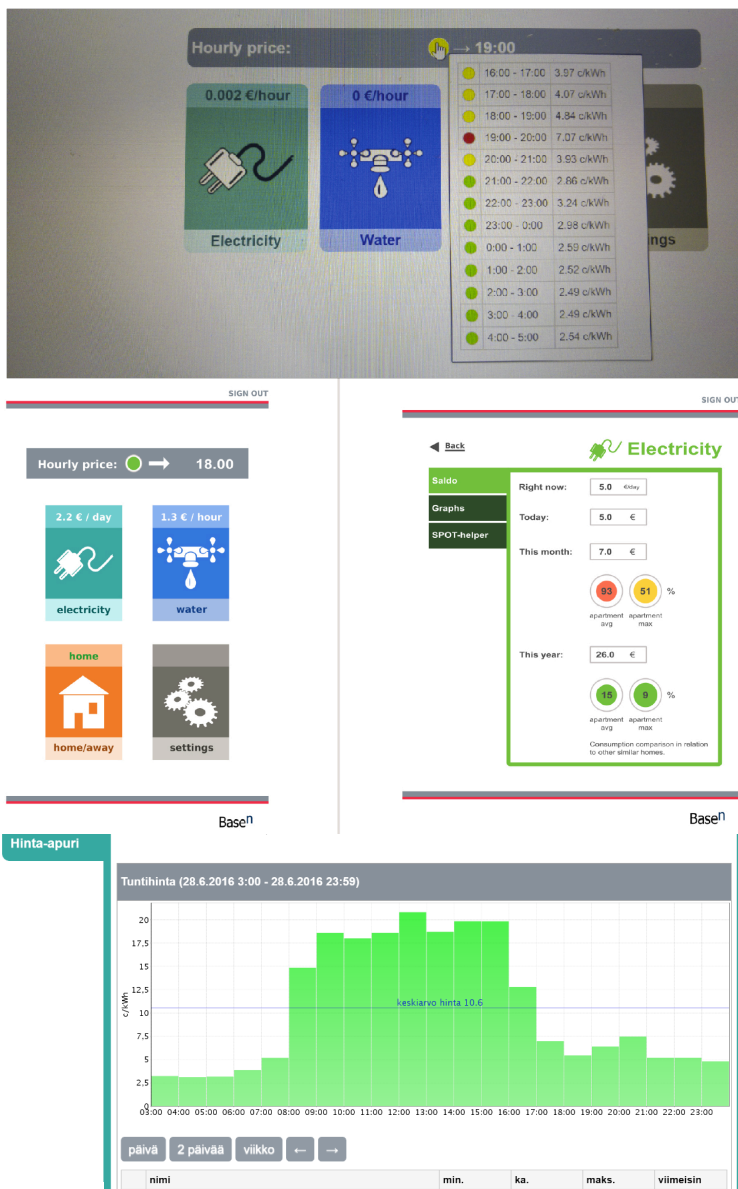
BaseN Platform measures electricity as well as cold and hot water consumption of each of the 58 Spinelli apartments in real-time. The electricity and water usage is additionally translated to the actual cost in Euros.

The tenants have at a glance insight to the hourly changing electricity price, enabling them to plan ahead for their energy usage, e.g. to run the washing machine or dish washer during the most economical hours.

A NEW ENERGY EFFICIENCY FEATURE

A new demographic comparison feature allows households to see how their electricity and water use relates to other households with the same amount of family members. Via home/away control the families can request the system to send an alarm if electricity or water consumption is higher than expected when no one is at home. This can help detecting water leaks or faulty appliances before they cause serious harm.

Standardized technologies and protocols, combined with the adaptable and expanding template libraries of BaseN Platform, allow for easy expansion of the service. BaseN Platform easily integrates with building automation systems from various vendors.



For more information visit www.basen.net

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