BEST PRACTICE IN CROATIA– SMART METERING

BASIC INFORMATION

Title of the Best Practice

Smart metering system in “University North” Koprivnica

Energy efficiency measures implemented in the building: controlling electricity consumption, water consumption, calorimeters.

Location:

City: Koprivnica

Region: Koprivnica-krizevci County

Country: Croatia

GoogleMaps link:

https://goo.gl/maps/TyA5mv1Cize7nWB17

Partners involved:

- Kampus d.o.o., Dr. Zarka Dolinara Square 1, 48000 Koprivnica – role: user
- Regional energy agency North, Miroslava Krleze 81, 48000 Koprivnica – role: investor and technical support during implementation
- SmartWay d.o.o., Glavna 23, 40313 Sveti Martin na Muri – role: contractor

Implementation year: 2015

Photo: (source: screenshot taken by REAN)

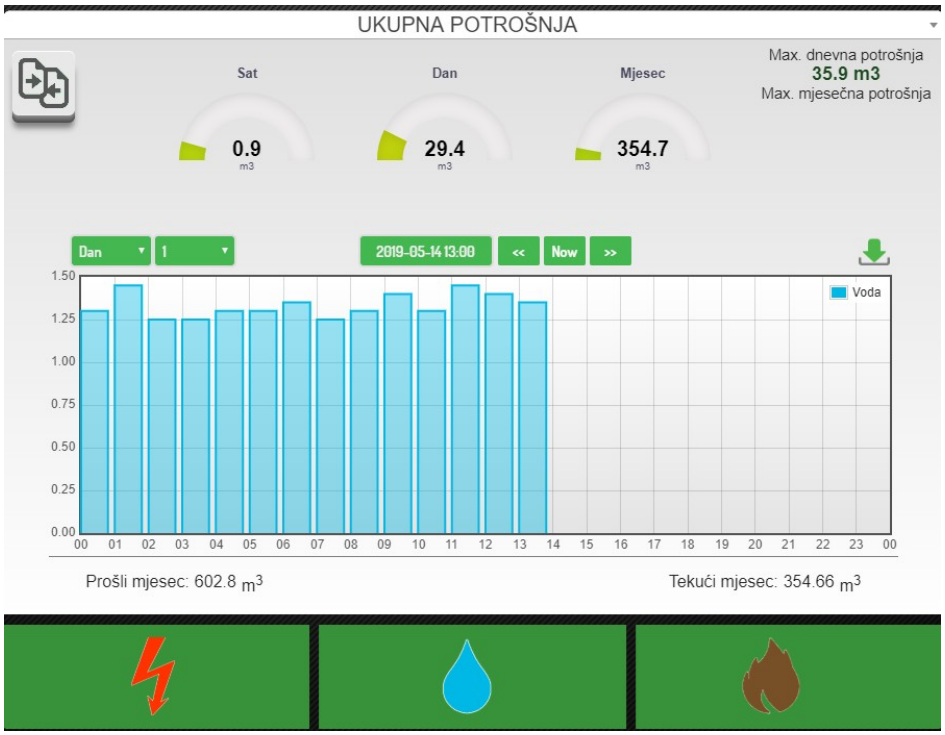

Figure 1 Smart metering interface

SYSTEM CHARACTERISTICS

Brief Description*:*

Within this project there was developed smart metering system that includes remote measurements and readings of electricity, heat energy and water that are monitored using SCADA system. The system for monitoring of energy consumption is based on minimum 15 – minute reading. There is also possibility of data analysis, the ability to access the system at any time and the ability to use the system by more users. Contract includes three year system maintenance.

Type of a building where a smart metering (SM) system is installed: Educational – University building

What does the smart meter measure:

Electricity consumption – main electricity meter
Electricity consumption – heat pump, climate chambers, operation of fan coils
Heat production – calorimeter for measuring heating energy used for preparing domestic hot wat water from heat pumps
Water consumption – two flow meters for heat supply and heat return

Responsible person for monitoring consumption: Saša Sabolović, custodian

Name of a company which installed the SM system: SmartWay d.o.o., Glavna 23, 40313 Sveti Martin na Muri, mail: info@smartway.com.hr, tel: +385954690513

FINANCIAL SOURCES AND FINANCING DETAILS

Total investment value: 7,500 EUR

Sources of financing: Internal and EU Funds (V-educa project)

Electricity savings *(MWh/year):* Indirect

Or fuel savings *(kg or m3 or kWh or GJ):* Indirect

Cost savings *(EUR/year):* Indirect

PROJECT IMPLEMENTATION BENEFITS

This investment will provide numerous benefits such as monitoring, planning and control of energy and water consumption costs. Ultimately, the system will enable better management of energy consumption, easier maintenance of facilities and financial savings.

ADDITIONAL INFORMATION

Implementation of Smart metering system in University North Koprivnica was co-financed through project V-educa within Hungary-Croatia IPA Cross-border co-operation programme 2007.-2013. Main focus of the project was education and promotion of nZEB solutions.