

## **DEVELOPMENT OF THE AUTOMATED INFORMATIONAL ACCOUNTING SYSTEM OF HEATING ENERGY**

In the city of Odessa (Ukraine) with population of around 1 mln people, the system of centralized heat supply reaches 95% of the consumers. The leading enterprise in production, transportation and supply of the heating energy is the public utility company “Heat supply of Odessa”, which provides its services to more than 70% of the city population. The main priority for any public utility company of such kind is development of the automated informational accounting system of the heating energy, which has a user-friendly WEB-interface with an option of granting to the consumer the information as to the amount of the heat used as well as the billing option.

The present paper presents the peculiarities of development and functionality of the automated informational system of the public utility company “Heat supply of Odessa” (AIS PUC “HSO”). Creation of AIS foresaw the development of informational WEB-portal and data bases (DB), access rights differentiation to information, creating the user’s personal cabinet with options of registration, authorization, getting, payment and removing of utility bills for services of PUC “HSO”. Within the process of development there have been accomplished: necessary settings and software installations for the server; settings of the WEB-portal content operational system ( in accordance with requirements of the customer – CMS Joomla); designing and creating of the complex databases for a personal user’s cabinet in DBMS MySol; creation of DB complex for collecting and storage of information as to all adjusted counters and their indications, which are transferred automatically to DB DBMS Oracle and are displayed in the users’ personal cabinets. The important part of this work was optimization of downloading DS at external loads during connection of a big number of users, which consisted in applying special optimization tools of DB DBMS MySQL and correct procedure settings, which returned data from DB DBMS Oracle. The scripting language is PHP.

Thus, a new original software has been developed in compliance with PUC “HSO” requirements with implementation of functions of registration, authorization, password enabling, data protection, creating and deletes the user’s personal account; printing out the bill receipt. At present the developed automated informational accounting system of heating energy has been successfully tested and implemented into work of the PUC “HSO”.

*Opiekun naukowy referatu:*  
*Doc., Ph.Dr Svitlana Kuznichenko*