



# RENOVATION OF HOT WATER SUPPLY SYSTEM OF THE LARGEST HOSPITAL IN DONETSK

by Svetlana Poltorak

**Specialists of Donetskgorteploset Public Utility Company have completed renovation of hot water supply systems of Donetsk Regional Hospital.**

**D**onetsk Regional Hospital, also known as Hospital named after Kalinin, is the largest medical organisation in Donetsk region. It was founded in 1928 and today it has 3 main centres: Department of diagnostics, In-Patient Treatment and Rehabilitation Centre. It is situated near Donetsk National Medical University with its dormitory accommodation and 12 units, together they form a medical campus.

The campus is based on scenic Kalmius river-bank. The Hospital used to be situated in the distant outskirts of the city and was surrounded by endless steppes.

Some people remember: “We often used to help anyone who dared crossing steppes to get to Gladkovka or Butovka in the winter. Some people strayed in the steppes to the point

of exhaustion. The only light they could see was the one of the Infection hospital. Here they could get medical assistance and stay overnight.”

Within the last decades Donetsk had become million-plus city and former outskirts turned into the City Centre. The hospital became a Main Medical Centre of Donetsk in 2012. Major refurbishment works took place in preparation to EURO 2012.

Renovation of hot water supply systems had been on the agenda for quite a long time. All heating and hot water supply pipelines were built above ground, which was the main reason of heat loss. The pipes were built along the campus parks, which marred esthetics.

After discussions over meticulously planned economical design by Donetskgorteploset, the decision had been made to opt for full replacement of hot water pipelines using ISOPROFLEX-A pipes. The project was funded by the Heating supply company. The management of the hospital plans to use the same pre-insulated flexible pipes for the new units that are currently under construction.

Total length of renovated hot water pipeline was 4,000 metres. 2,500 metres were renovated this spring. All works were provided by specialists from Donetskgorteploset.

Specialists from heating supply company have fully realised the obvious advantages of ISOPROFLEX-A pipes during municipal projects implementation within 2008–2011. Flexibility of pipes allows to lay pipelines around obstacles and bends without installation of additional fittings, they are energy efficient, i.e. minimize energy loss during operation. These features were especially useful during works at the medical complex.

According to Nikolai Zinchenko, Deputy Operations Director of Donetskgorteploset, renovation of heating and hot water supply pipelines will allow to reduce maintenance by more than 2 thousand hours and minimized heat loss will reduce specific power requirements.

Total savings using ISOPROFLEX-A pipe are comprised of several factors:

- heat loss reduction in the systems by 6.3%;
- heat energy loss reduced by 1220.69 Gcal per year;
- reduction of gas consumption by 142,000 cubic metres;
- salary budget savings up to 30,000 hryvnas.

Practical application of ISOPROFLEX-A pipes with hot water systems was highly commended by the heating supply company. Operational performance of the pipelines plays a key role. Donetskgorteploset, after seeing the true value of flexible plastic pre-insulated pipes, now issues technical specifications application of ISOPROFLEX-A pipes in the district heating and hot water supply networks in Donetsk.

