

## Press-release

Danfoss LLC

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### **Modernization of the Russian heat supply became a common event**

*There was launched a project on heat supply system optimization in Zakamsky district, the city of Perm*

On October 28th, 2014 the project on optimization of heat supply system was officially launched in Zakamsky district, the city of Perm. It is implemented by the Perm branch of TGC-9 (Territorial generation company №9) with the support of the governor of Perm Territory and the administration of Perm. The governor Victor Basargin, the Chairman of the Regional Government Gennady Tushnolobov, representatives of administration, legislative authorities, business and financial structures attended a solemn ceremony organized by Russia's largest private energy holding with the participation of Danfoss LLC, general supplier of equipment.

According to General Director of "KES" CJSC Boris Vainzikh, in 2 years all 138 000 inhabitants of Zakamsky district will be provided with the improved level of heat supply. Investments in the project will amount to almost 2 billion rubles.

In specialists' view, this event became one of the most significant one in 2014 for Russian heat supply industry. «This project is among the first large-scale projects in our country that are aimed at district heating networks reconstruction with the rejection of using traditional heat distribution diagrams. Central heat supply stations are going to be replaced with more modern solutions using individual heating unit in each building» – said Michael Shapiro, the General Director of Danfoss company, world's leading manufacturer of energy saving equipment.

As explained by experts, regulation of heat supply directly on buildings' thermal inputs enables the optimization of the whole chain - from the generation company to the end consumer. The energy company will save significant resources and capacities, and the homeowner will be able to reduce costs of heating. Such problems as over- and underheating will also become a thing of the past. Quality of DHW supply will significantly increase. Tenants of each home will be able to set the coolant temperature independently according to their own needs. Thus, people will have the opportunity to pay for only required amount of heat and hot water – and it will motivate them to save energy.

«This heat supply system with adjustment on buildings' thermal inputs is also very effective because it can be easily installed. Having been tried in one district, it can be implemented in another one without long preparation. It should be mentioned that pattern, special features and age of buildings are irrelevant to the process of installation, as heating units adjustment is performed individually at the consumption points. Success of the project will facilitate its implementation in other Russian cities, which is especially important for realization of the state program on housing and utility sector modernization », – adds the Head of Danfoss LLC.

Nowadays these large-scale projects have already been implemented in several Russian cities. Particularly, the city of Naberezhnye Chelny has omitted the use of central heat supply stations, the similar project is also being implemented in the city of Kazan. In the city of Perm its realization is to be conducted in Zakamsk, Vodniki, Sudozavod microdistricts. According to expert opinion, these areas are optimal for starting the project, and municipal infrastructure demands urgent reconstruction. Project realization will reduce the wear of utility infrastructure, eliminate hot water pipelines outside buildings, cut heat losses and level down fault rate of the municipal heating system. Heat consumption thus will be shortened by about 20%.

Prospectiveness of the project in Zakamsky district, the city of Perm, was also highlighted by Alexandr Mitreykin, the director of Department of Energy Efficiency and GIS TEK (Federal information system of fuel and energy complex) of the Russian Federation: «We will fully support this project realization in this and other regions of Russia and arrange federal grants under the program of energy development».

Currently the initial works are already being held. Three central heat supply stations, connected to 15 buildings, are taken out of operation. Danfoss individual heating units with weather compensation and hot water preparation were installed in this buildings. By 2015 individual heating units are to be installed in more than 1200 buildings of Zakamsk.

According to specialists, the new system efficiency is already evident from the fact, that since the beginning of the heating season the energy company has received several requests about possibility to implement similar projects in other sectors of the city of Perm.

«Our aim is to switch to the qualitative and quantitative regulation of heat. To achieve this effect, we need to change the heat supply system in a given area completely: to take obsolete and inefficient equipment (central heat supply stations) out of operation and to install the individual heating units in each house instead. In addition, we plan to modernize the transport infrastructure: part of trunk system and the district distribution, as well as replace equipment at the power plant",- states Anton Trifonov, chief engineer of the Perm branch of «TGC-9».

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*Danfoss company is the world's leading manufacturer of energy-saving equipment. It established itself as a leading choice in the market of thermal automation, refrigeration and driven equipment. Danfoss share In the Russian market of thermal automation amounts to 35%. Nowadays the company has 22 representative offices on the territory of Russia and Belarus. Russian representative office was founded in 1993. As of today, the whole range of Danfoss production is presented in the Russian market. In 2014 localization portion of the enterprise exceeds 30%. Currently the company has two existing industries in Russia - in the Istra district of Moscow region and in the city of Dzerzhinsk, Nizhny Novgorod region. There was also signed a contract to design and build the third plant in Russia, also Nizhny Novgorod region, in 2013. Investments in its construction will amount to about 1 billion rubles.*