

Vaisala plays a major role in the biggest meteorological project in Russian history

When Russia decided to upgrade its meteorological network with the help of Vaisala, the task was so enormous that a separate manufacturing facility was set up in Russia.

Russian meteorological service chooses Vaisala

Roshydromet (the Russian Federal Service for Hydrometeorology and Environmental Monitoring) is responsible for weather information and data for the entire Russian federation. Established by decree of Russian Emperor Nicholas I in 1834, today Roshydromet brings together 22 regional players in hydrometeorology and environmental monitoring. The organization's primary objective is to reduce threats to life and the economical damage caused by weather and climatic events. To this end, they chose Vaisala to supply over 1800 individual units of various types for more accurate and automated monitoring.

Real need for network-wide upgrade

In 2008, Roshydromet, in cooperation with the World Bank, undertook to upgrade its entire ground-based meteorological observation network. The project was to introduce modern automated and automatic weather stations that would allow observation in previously inaccessible locations, and automate the manual work of observers, resulting in better, more accurate measurements.



Challenge

- Need to upgrade entire ground-based meteorological observation network
- Need for automated weather stations to: gather real time data; gather data in previously inaccessible locations; and improve the quality of weather information across the largest country in the world
- Sheer logistical challenge of manufacturing and implementing so many systems on time and on budget

Solution

- Vaisala partners with local Russian integrator, LANIT
- LANIT sets up local production facilities
- World Bank financial support
- 1800 surface weather stations assembled, calibrated and delivered in cooperation with LANIT

Benefits

- Improved quality and reliability of measurements at stations
- Modernized network enables high quality weather information resulting in better forecasts through the whole of the enormous Russian territory
- More end users can receive, process and transmit accurate hydro-meteorological information



Most massive meteorological project in Russian history

The project is of a scale never seen before in Russia, including the supply of more than 1800 pieces of equipment at 240 sites throughout the Russian Federation. Total project costs amount to several tens of millions of dollars. LANIT (Laboratory of New Information Technologies) group, a major Russian technology development and implementation company, was chosen as the local integrator and worked closely with Vaisala through all stages of the project.

manufacture, test and calibrate weather measurement units close to point of deployment, so the Novosibirsk region of Russia was chosen. As a result, in March 2010 more than 900 weather stations were delivered in various regions of Russia, within agreed deadlines and without any gaps.

Network success

The Russian Federation will soon have the measurement infrastructure needed to help keep citizens more secure from weather-related issues. Accurate and automated weather data minimizes the impact of human factors on the quality of measurement, resulting in better weather measurement and forecasting across the Russian Federation.

"It's no secret that for LANIT this endeavour is a landmark. This may be the first time that a meteorological project of such scale is implemented in Russia (and in the world). We are very pleased to work with Vaisala in creating this solution."

Sergei Mikhalev, Director of the Rosshydromet project, LANIT

Lanit sets up manufacturing in Russia

Because the project was so enormous, it made sense to



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