



RUSSIA HYDROMETEOROLOGICAL SERVICES MODERNIZATION (P127676)

EUROPE AND CENTRAL ASIA | Russian Federation | Environment & Natural Resources Global Practice | IBRD/IDA | Investment Project Financing | FY 2014 | Seq No: 11 | ARCHIVED on 29-Jun-2018 | ISR32550 |

Implementing Agencies: RosHydromet, Government of the Russian Federation

Key Dates

Key Project Dates

Bank Approval Date:17-Sep-2013

Effectiveness Date:08-May-2014

Planned Mid Term Review Date:05-Dec-2016

Actual Mid-Term Review Date:07-Dec-2016

Original Closing Date:31-Dec-2018

Revised Closing Date:31-Dec-2021

Project Development Objectives

Project Development Objective (from Project Appraisal Document)

The development objective of the proposed Second National Hydromet System Modernization Project (RU-Hydromet-2) is to further enhance the national capacity to deliver reliable and timely weather, hydrological and climate information to the Russian public and economic sector and enhance Russia's capacity to integrate into the global system of meteorological services. As a result of the project Roshydromet will further modernize its services and improve the accuracy of information necessary to protect society and economy from a wide range of hydrometeorological and climate related hazards. The project will also support Russia's public institutions to make informed economic decisions related to climate information (both negative and positive impacts) based on comprehensive climate models and assessment capacity.

Has the Project Development Objective been changed since Board Approval of the Project Objective?

No

Components

Name

Component A. Strengthening Information Communication Technology (ICT) infrastructure and systems delivering weather, climate and hydrological data and information:(Cost \$64.14 M)

Component B. Modernization of observation networks:(Cost \$90.16 M)

Component C. Institutional and regulatory strengthening, improvement of service delivery to clients and better preparedness for emergencies:(Cost \$17.28 M)

Component D: Project Management:(Cost \$7.78 M)

Overall Ratings

Name	Previous Rating	Current Rating
Progress towards achievement of PDO	● Moderately Satisfactory	● Moderately Satisfactory



Overall Implementation Progress (IP)	● Moderately Satisfactory	● Moderately Satisfactory
Overall Risk Rating	● Substantial	● Substantial

Implementation Status and Key Decisions

The project implementation progress over the past six months has been sustained but not significantly accelerated. Most of the on-going activities are on schedule, some others, primarily related to broader policy issues and decision making at Government level have been postponed. The High-Performing Computer (supercomputer) has been delivered and mounted in Roshydromet's premises in Moscow, Khabarovsk and Novosibirsk. It is now undergoing different tests and will be fully operational as of August. Evaluation is underway for the modernization of hydrological network, improvement of reliability of hydrological forecast and flooding on Volga River. It is expected that actual activities for this specific task would commence in fall. New activities, added as a result of project restructuring in February are commencing at a slower than anticipated pace. More specifically, improvement of performance and sustainability of the land-based meteorological network including expansion of automatic systems is a bit delayed, because it needs to be aligned with Roshydromet's overall development strategy, currently under preparation. On the other hand, test are underway for modernization of remote meteorological stations, primarily in the northern and eastern regions. Should they be successful, the roll-out can start in late 2019-2020.

Risks

Systematic Operations Risk-rating Tool

Risk Category	Rating at Approval	Previous Rating	Current Rating
Political and Governance	--	● Substantial	● Substantial
Macroeconomic	--	● Substantial	● Substantial
Sector Strategies and Policies	--	● Moderate	● Moderate
Technical Design of Project or Program	--	● Moderate	● Moderate
Institutional Capacity for Implementation and Sustainability	--	● Moderate	● Moderate
Fiduciary	--	● Substantial	● Substantial
Environment and Social	--	● Low	● Low
Stakeholders	--	● Substantial	● Substantial
Other	--	--	--
Overall	--	● Substantial	● Substantial

Results

Project Development Objective Indicators

► Increased lead times of basic weather forecasts for major Russian administrative centers with reliability over 70% (Hours, Custom)

Baseline

Actual (Previous)

Actual (Current)

End Target



Value	120.00	120.00	120.00	168.00
Date	01-Jan-2014	05-Dec-2017	18-May-2018	31-Dec-2021

Comments

This indicator should in principle show progress towards the end of 2019, when HPC is fully operational.

► Increased reliability of forecasts of seasonal water inflow to reservoirs in the Volga River basin (Percentage, Custom)

	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	75.00	78.00	78.00	85.00
Date	01-Jan-2014	05-Dec-2017	18-May-2018	31-Dec-2021

Comments

Due to delays with deployment of the package and activities linked to modernization of hydrological network on Volga River basin, the progress can be expected not earlier than about 18 months from now.

► Increased number of RHM sectoral data users (Percentage, Custom)

	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	100.00	116.00	116.00	123.00
Date	01-Jan-2014	05-Dec-2017	18-May-2018	31-Dec-2021

► Increased satisfaction of users with RHM services (Percentage, Custom)

	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	65.00	80.00	80.00	80.00
Date	01-Jan-2014	05-Dec-2017	18-May-2018	31-Dec-2021



Overall Comments

Due to extension of the project, an additional (third) wave of monitoring will be conducted in June-December 2021 under the package. The second wave in the meantime has been postponed till June-December 2019.

Intermediate Results Indicators

► A.1 Accuracy of warnings on natural hazards (Percentage, Custom)

	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	88.00	93.60	93.60	93.00
Date	01-Jan-2014	05-Dec-2017	18-May-2018	31-Dec-2021

► A.2 Increased level of spatial resolution of weather forecasts with the lead time of up to three days (for large cities) (Kilometers, Custom)

	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	15.00	15.00	15.00	5.00
Date	01-Jan-2014	05-Dec-2017	18-May-2018	31-Dec-2021

► A.3 Number of oblast and territorial Roshydromet Centers providing remote client access to archived data (Number, Custom)

	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	7.00	7.00	10.00
Date	01-Jan-2014	05-Dec-2017	18-May-2018	31-Dec-2021



► A.4 Number of Roshydromet centers providing operational access to observational data and products for internal and external RHM clients (Percentage, Custom)

	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	10.00	10.00	100.00
Date	01-Jan-2014	05-Dec-2017	18-May-2018	31-Dec-2021

► B.1 Increased number of automated observation sites in pilot regions of the North-West of Russia (Percentage, Custom)

	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	83.00	84.00	84.00	92.00
Date	01-Jan-2014	05-Dec-2017	18-May-2018	31-Dec-2021

► B.2 Availability of modern devices for measurement of soil moisture and heat regime of agricultural lands in the pilot regions (North Caucasus, West Siberia) (Percentage, Custom)

	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	0.00	0.00	80.00
Date	01-Jan-2014	05-Dec-2017	18-May-2018	31-Dec-2021

Comments

Measurement devices have been delivered to pilot regions already. However, they are currently undergoing testing and rectification of shortcomings in equipment that needs to be fixed. Until the shortcomings are not addressed the progress on this indicator will not be possible to report.

► B.3 Modernization of upper air observation network (Percentage, Custom)

	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	64.00	78.00	78.00	87.00
Date	01-Jan-2014	05-Dec-2017	18-May-2018	31-Dec-2021



► B.4 Reduction of error of water flow data in the Volga River basin (Percentage, Custom)

	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	20.00	30.00	30.00	15.00
Date	01-Jan-2014	05-Dec-2017	18-May-2018	31-Dec-2021

► B.5 Percentage of the Volga River basin territory corresponding to the minimum required number of hydrological observation sites (Percentage, Custom)

	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	81.00	81.00	81.00	100.00
Date	01-Jan-2014	05-Dec-2017	18-May-2018	31-Dec-2021

Comments

This indicator will not change until the hydrological network modernization activities are completed. The launch is expected in fall 2018.

► C.4 Accuracy of warnings on hazardous hydrometeorological events delivered to regional authorities and the Ministry of Emergency Situations (Percentage, Custom)

	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	81.00	84.00	84.00	89.00
Date	01-Jan-2014	05-Dec-2017	18-May-2018	31-Dec-2021

► C.5 Number of Roshydromet institutions where situation centers are deployed (Number, Custom)

	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	25.00	96.00	96.00	102.00
Date	01-Jan-2014	05-Dec-2017	18-May-2018	31-Dec-2021



► C.2 Re-training and professional upgrading of specialists from the Roshydromet's organizations (Number, Custom)

	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	169.00	1,614.00	2,325.00	9,300.00
Date	01-Jan-2014	05-Dec-2017	18-May-2018	31-Dec-2021

► C.1 Developed/updated regulatory, organizational and administrative documents aimed at improving the organizational, methodological, financial and economic activities of Roshydromet (Number, Custom)

	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	2.00	4.00	9.00
Date	01-Jan-2014	05-Dec-2017	18-May-2018	31-Dec-2021

Comments

Over reporting period following two guidelines/recommendations have been prepared and endorsed: (i) methodological recommendations for the use of additional sensors for the automated meteorological complex AMK on the ground meteorological observation network; (ii) guidelines for conducting comparative measurements of water levels and temperatures using standard and automated measuring instruments and processing the results.

► C.3 Number of scientists and specialists participating in internships in leading universities and agencies outside Russia (Number, Custom)

	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	2.00	2.00	10.00
Date	01-Jan-2014	05-Dec-2017	18-May-2018	31-Dec-2021

Comments

The mission noted earlier as well that this target would be difficult to reach due to difficulties for Russians to obtain internships in leading universities and agencies abroad.

Overall Comments



Data on Financial Performance

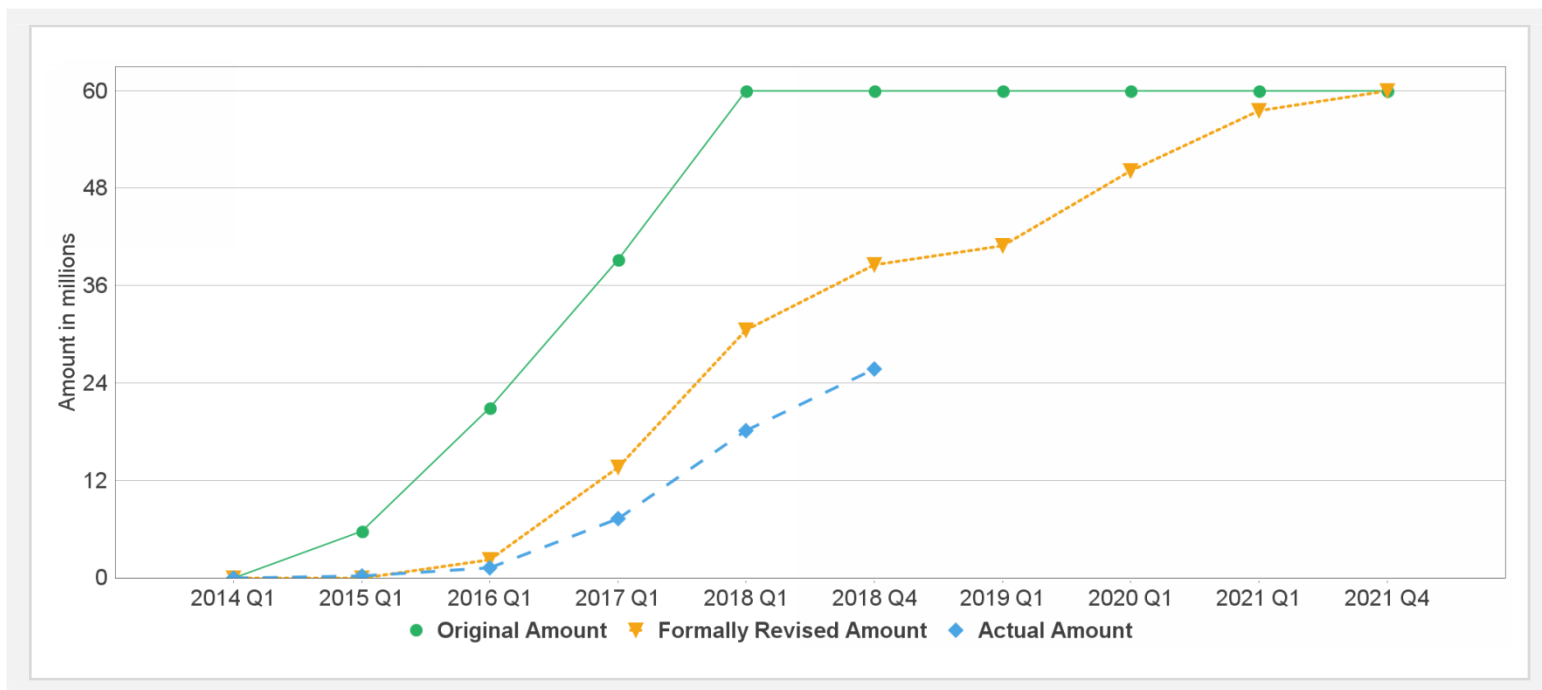
Disbursements (by loan)

Project	Loan/Credit/TF	Status	Currency	Original	Revised	Cancelled	Disbursed	Undisbursed	Disbursed
P127676	IBRD-82910	Effective	USD	60.00	60.00	0.00	25.69	34.31	43%

Key Dates (by loan)

Project	Loan/Credit/TF	Status	Approval Date	Signing Date	Effectiveness Date	Orig. Closing Date	Rev. Closing Date
P127676	IBRD-82910	Effective	17-Sep-2013	17-Jan-2014	08-May-2014	31-Dec-2018	31-Dec-2021

Cumulative Disbursements



Restructuring History

Level 2 Approved on 21-Feb-2018



Related Project(s)

There are no related projects.
