



## Sustainable Energy Scale-Up (P165651)

EUROPE AND CENTRAL ASIA | Belarus | Energy & Extractives Global Practice |  
IBRD/IDA | Investment Project Financing | FY 2020 | Seq No: 4 | ARCHIVED on 12-Oct-2021 | ISR48382 |

Implementing Agencies: Energy Efficiency Department, State Committee for Standardization, RUE 'Belinvestenergoberezhnie' (BIES), State Committee for Standardisation

**Key Dates****Key Project Dates**

Bank Approval Date: 30-Oct-2019

Effectiveness Date: 13-Aug-2020

Planned Mid Term Review Date: 17-Jul-2023

Actual Mid-Term Review Date:

Original Closing Date: 30-Apr-2025

Revised Closing Date: 30-Apr-2025

**Project Development Objectives**

Project Development Objective (from Project Appraisal Document)

The Project Development Objective is to scale up efficient energy use in space heating of multi-apartment buildings and renewable wood biomass utilization for heating in selected localities in Belarus

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

No

**Components** Table

Name

Component 1. Renewable Wood Biomass Heating:(Cost \$134.70 M)

Component 2. Thermal Renovation of Multiapartment Buildings:(Cost \$60.95 M)

Component 3. Technical Assistance and Implementation Support:(Cost \$6.74 M)

**Overall Ratings**

Name	Previous Rating	Current Rating
Progress towards achievement of PDO	<input type="checkbox"/> Moderately Satisfactory	<input type="checkbox"/> Moderately Satisfactory
Overall Implementation Progress (IP)	<input type="checkbox"/> Moderately Satisfactory	<input type="checkbox"/> Moderately Satisfactory
Overall Risk Rating	<input type="checkbox"/> Substantial	<input type="checkbox"/> Substantial

**Implementation Status and Key Decisions**

The Project is in too early stage to report the progress on development outcomes. The Renewable Wood Biomass Heating Component shows good progress with tenders and contracts awarded. The Pilot Program on Thermal Renovation of Multi Apartment Buildings is progressing at a slower pace with the Oblasts developing a Program of Action for 2021/2022.



## Risks

### Systematic Operations Risk-rating Tool

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

## Results

### PDO Indicators by Objectives / Outcomes

Reduced fossil fuel consumption in space heating in selected localities				
► Projected lifetime fossil fuel savings due to investments financed by the project (Mega Joules (MJ), Custom)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	0.00	0.00	61,000,000,000.00
Date	01-Jul-2019	02-Apr-2021	05-Oct-2021	31-Jan-2025
Comments:	Estimated lifetime fossil fuel savings directly resulting from the project investments. The lifetime of biomass heating assets is assumed to be 15 years. The lifetime of thermal renovation assets is assumed to be 25 years.			

Reduced greenhouse gas emissions				
► Projected lifetime avoided CO2 emissions due to investments financed by the project (Metric ton, Custom)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	0.00	0.00	3,800,000.00
Date	01-Jul-2019	02-Apr-2021	05-Oct-2021	31-Jan-2025
Comments:	Estimated lifetime avoided CO2 emissions based on estimated lifetime fossil fuel savings.			



Increased rate of participation in thermal renovation investments				
► Rate of households participation in thermal renovation investments (Percentage, Custom)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	0.00	0.00	50.00
Date	01-Jul-2019	02-Apr-2021	05-Oct-2021	31-Jan-2025
Comments:	The rate of participation is the ratio between the number of buildings whose homeowners decided to invest in thermal renovation and the number of buildings whose homeowners agreed to conduct detailed energy assessment.			

### Intermediate Results Indicators by Components

Renewable wood biomass heating				
► Generation capacity of renewable wood biomass energy constructed (Megawatt, Custom)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	0.00	0.00	225.00
Date	01-Jul-2019	02-Apr-2021	05-Oct-2021	31-Jan-2025
Comments:	Thermal energy capacity of biomass boilers financed by the project			

Thermal renovation of multiapartment buildings				
► Total floor area of renovated buildings (Square Meter(m2), Custom)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	0.00	0.00	550,000.00
Date	01-Jul-2019	02-Apr-2021	05-Oct-2021	31-Jan-2025
Comments:	Floor areas of MABs with completed thermal renovation			
► Number of households participating in thermal renovation projects (Number, Custom)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	0.00	0.00	10,000.00
Date	01-Jul-2019	02-Apr-2021	05-Oct-2021	31-Jan-2025
Comments:	Number of households participating in thermal renovation investments			
<input type="checkbox"/> Percentage of female-headed households which receive capital grant for investment in thermal renovation (Percentage, Custom Supplement)				



	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	0.00	0.00	50.00
<b>► Participation rate of apartment-level consumption-based billing in the selected housing complex (Percentage, Custom)</b>				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	0.00	0.00	50.00
Date	01-Jul-2019	02-Apr-2021	05-Oct-2021	31-Jan-2025
Comments:	Number of households who participated in the demonstration divided by the total number of households living in the housing complex			

<b>Technical assistance and implementation support</b>				
<b>► Number of homeowners participated in consultations (Number, Custom)</b>				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	0.00	480.00	60,000.00
Date	01-Jul-2019	02-Apr-2021	05-Oct-2021	31-Jan-2025
Comments:	Number of homeowners participated in consultations			
<b>► Number of female participants in the consultations (Number, Custom)</b>				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	0.00	300.00	40,000.00
Date	01-Jul-2019	02-Apr-2021	05-Oct-2021	31-Jan-2025
Comments:	Number of female participants in the consultations			
<b>► Percent of benefiting households who feel heating service or thermal comfort has improved (Percentage, Custom)</b>				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	0.00	0.00	70.00
Date	01-Jul-2019	02-Apr-2021	05-Oct-2021	31-Jan-2025
Comments:	Percent of benefiting households who feel heating service or thermal comfort has improved			
<b>► Percent of benefiting households who are satisfied with the process in which they have been consulted with (Percentage, Custom)</b>				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	0.00	0.00	70.00
Date	01-Jul-2019	02-Apr-2021	05-Oct-2021	31-Jan-2025



Comments:	Percent of benefiting households who are satisfied with the process in which they have been consulted with			
▶ MRV methodology developed (Text, Custom)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	There is no MRV methodology for GHG emissions reduction related to thermal renovation and biomass district heating.	0.00	0.00	MRV methodology developed in consultation with the government,
Date	01-Jul-2019	02-Apr-2021	05-Oct-2021	31-Jan-2025
Comments:	Not applicable			

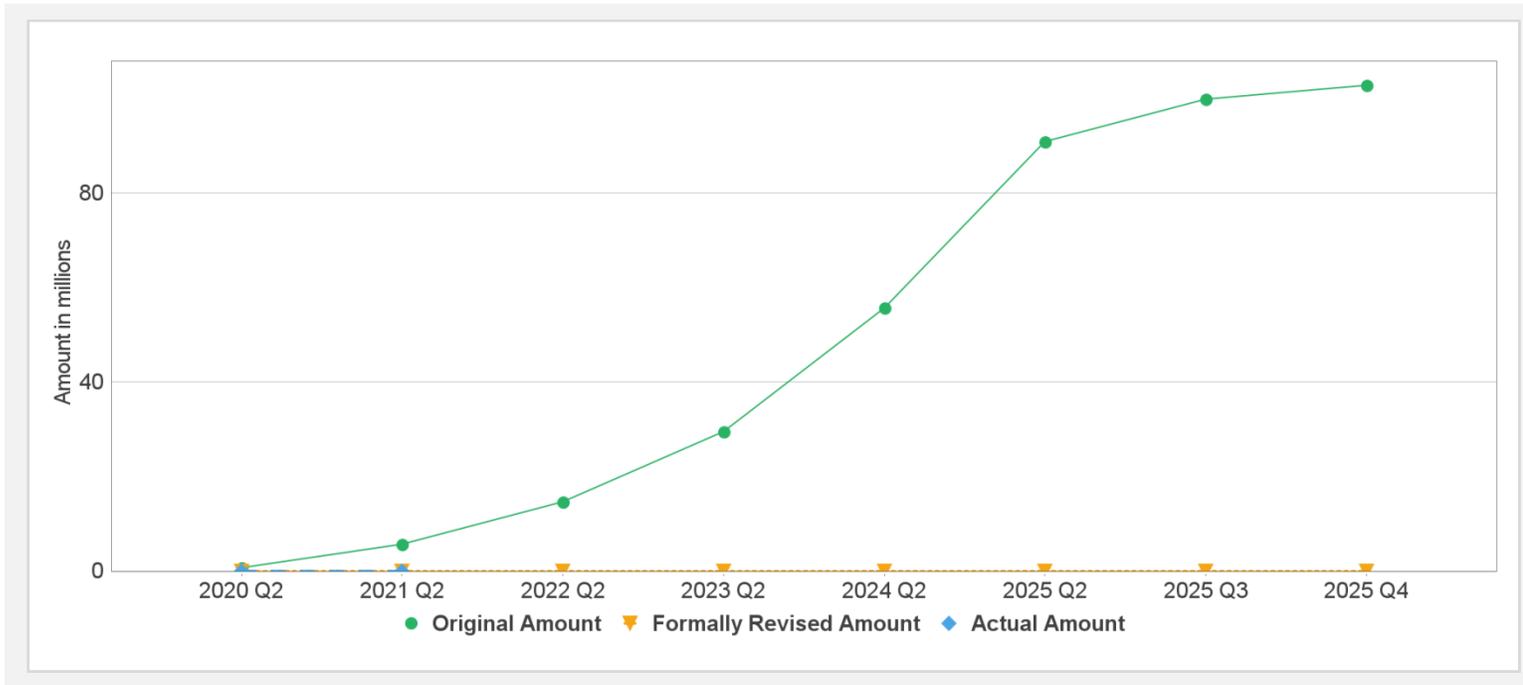
**Performance-Based Conditions****Data on Financial Performance****Disbursements (by loan)**

Project	Loan/Credit/TF	Status	Currency	Original	Revised	Cancelled	Disbursed	Undisbursed	% Disbursed
P165651	IBRD-90140	Effective	USD	99.30	99.30	0.00	5.50	94.11	5.5%
P165651	TF-B4559	Effective	USD	3.65	3.65	0.00	0.06	3.60	1.5%

**Key Dates (by loan)**

Project	Loan/Credit/TF	Status	Approval Date	Signing Date	Effectiveness Date	Orig. Closing Date	Rev. Closing Date
P165651	IBRD-90140	Effective	30-Oct-2019	28-Nov-2019	13-Aug-2020	30-Apr-2025	30-Apr-2025
P165651	TF-B4559	Effective	30-Oct-2019	28-Nov-2019	13-Aug-2020	30-Apr-2025	30-Apr-2025

**Cumulative Disbursements**



### Restructuring History

There has been no restructuring to date.

### Related Project(s)

P170996-Sustainable Energy Scale-Up