



## Green Energy Schemes for Low-carbon City in Shanghai, China (P127035)

EAST ASIA AND PACIFIC | China | Energy & Extractives Global Practice |  
IBRD/IDA | Investment Project Financing | FY 2013 | Seq No: 10 | ARCHIVED on 30-Dec-2017 | ISR30738 |

Implementing Agencies: Changning District Government (Shanghai), Government of the People's Republic of China, Shanghai Pudong Development Bank, Bank of Shanghai

## Key Dates

## Key Project Dates

Bank Approval Date:20-Mar-2013

Effectiveness Date:06-Sep-2013

Planned Mid Term Review Date:11-Apr-2016

Actual Mid-Term Review Date:17-May-2016

Original Closing Date:31-Dec-2018

Revised Closing Date:31-Dec-2018

## Project Development Objectives

Project Development Objective (from Project Appraisal Document)

The project development objectives are to pilot green energy schemes and scale up low-carbon investments in buildings in Shanghai, with a focus on Changning district.

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

No

Global Environmental Objective (from Project Appraisal Document)

The Global Environment Objective is to support Shanghai's low-carbon city development by promoting green energy schemes, with a focus on Changning district.

Has the Global Environmental Objective been changed since Board Approval of the Project Objective?

No

## Components

Name

1. Technical Assistance and Near Zero-emission Building:(Cost \$4.35 M)

2. Low-Carbon Investments:(Cost \$100.00 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

Implementation progress has been steady and achievement of the Project Development objectives remain on track, though slightly delayed. A pipeline of investment sub-projects to support the low carbon development in Shanghai city have been identified by both Bank of Shanghai and Shanghai Pudong Development Bank. It is expected the implementation, once the subprojects are effective, will move at a faster pace.

Studies to support the government in policy making and low carbon pilots (building energy consumption monitoring platform, non-motorized transport, distributed energy supply, near-zero emission building) have been conducted, and progress has been made for each pilot. The next mission is scheduled in April 2018.

## Risks

### Systematic Operations Risk-rating Tool

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

## Results

### Project Development Objective Indicators

► Annual energy savings supported by the investments under the project (Tons of coal equivalent) (Tones/year, Custom)

Baseline

Actual (Previous)

Actual (Current)

End Target



Value	0.00	38,678.00	35,989.00	76,000.00
Date	01-Jul-2013	30-Dec-2016	26-Dec-2017	31-Dec-2018

► Annual CO2 emission reduction supported by the investments under the project (Tons of coal equivalent) (Tones/year, Custom)

	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	83,777.00	77,952.00	165,000.00
Date	01-Jul-2013	30-Dec-2016	26-Dec-2017	30-Jun-2018

#### Overall Comments

The results of annual energy saving covered part of the sub-projects that PMO has completed the technical and environmental review following the requirements in the Operation Manual. The complete information will be reviewed when PMO completes the review by January 2018.

#### Global Environmental Objective Indicators

► Accumulated carbon intensity per unit of GDP in Changning District (Percentage). (Percentage, Custom)

	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	100.00	83.00	83.00	77.40
Date	31-Dec-2010	14-Jun-2017	26-Dec-2017	30-Jun-2018

#### Overall Comments

The figure was 2016 as 2017 figure will be only available in early 2018.

#### Intermediate Results Indicators



► Innovative policies piloted under the Project in relation to green-energy retrofitting of buildings (Text, Custom)

	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	none	A low carbon subsidy program has been issued in Changning District since 2013. As a result, Changning ranked itself in achieving more rehabilitation of existing buildings among all districts in Shanghai.	A low carbon subsidy program has been issued in Changning District since 2013. As a result, Changning ranked itself in achieving more rehabilitation of existing buildings among all districts in Shanghai.	Completed
Date	01-Jul-2013	14-Jun-2017	26-Dec-2017	30-Jun-2016

► Online energy monitoring platform established under the Project (Number, Custom)

	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	100.00	160.00	160.00	160.00
Date	01-Jul-2013	14-Jun-2017	26-Dec-2017	30-Jun-2016

► At least one (1) near zero-emission building piloted under the Project (Text, Custom)

	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	none	Construction of a pilot near-zero emission building was completed in May 2017. It will be put into operation in Sep. 2017.	Construction of a pilot near-zero emission building was completed and put into operation in August 2017.	Completed
Date	01-Jul-2013	14-Jun-2017	26-Dec-2017	30-Jun-2018

► Innovative financing mechanisms developed under the Project for green-energy retrofitting of buildings (Text, Custom)

	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	none	The TOR has been reviewed and hiring of consultant has started. The study is expected to be completed by Dec. 2017.	Consultant was contracted to conduct the study.	Completed



Date	01-Jul-2013	14-Jun-2017	26-Dec-2017	30-Jun-2016
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► At least one (1) distributed generation center built under the Project (Text, Custom)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	none	The final design of the distributed energy supply in the selected hospital has been completed. The PMO estimates that the construction will be completed by Dec. 2017. The activity is financed by grant from Energy Foundation, and the GEF grant was not used for the activity.	The final design of the distributed energy supply in the selected hospital has been completed. The PMO estimates that the construction will be completed by Dec. 2017. The activity is financed by grant from Energy Foundation, and the GEF grant was not used for the activity.	Completed
Date	01-Jul-2013	14-Jun-2017	26-Dec-2017	30-Jun-2018

► Non-motorized transport system piloted under the Project (Text, Custom)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	none	The construction of 3 roads to apply non-motorized transportation (NMT) is to be completed in June 2017. Additional support to NMT planning in Changning district was agreed in the recent mission.	The construction of 3 roads to apply non-motorized transportation (NMT) was in June 2017. Additional support to NMT planning in Changning district has been launched.	Completed
Date	01-Jul-2013	14-Jun-2017	26-Dec-2017	30-Jun-2017



► Low-carbon investments supported by the Project (Amount(USD), Custom)

	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	169,000,000.00	378,000,000.00	246,000,000.00
Date	01-Jul-2013	30-Dec-2016	26-Dec-2017	30-Jun-2018

## Overall Comments

### Data on Financial Performance

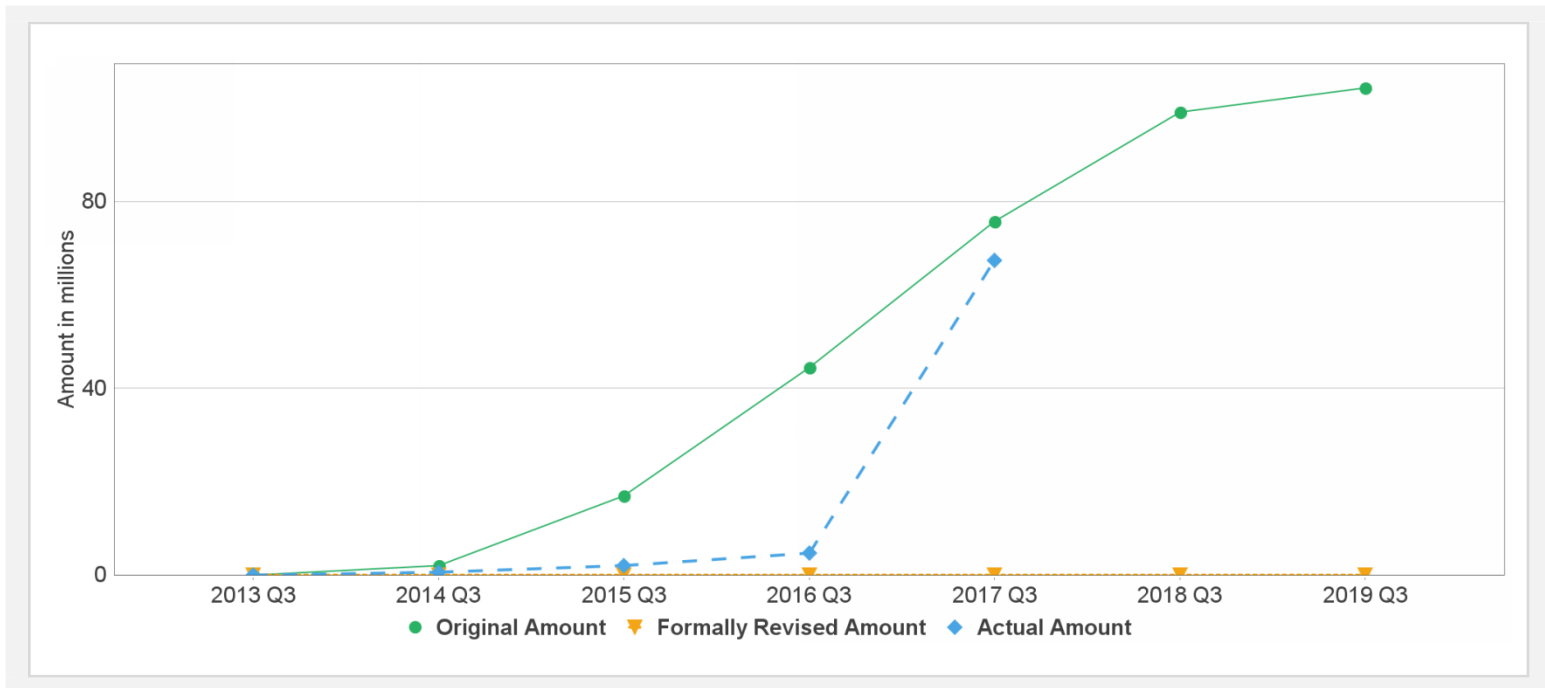
#### Disbursements (by loan)

Project	Loan/Credit/TF	Status	Currency	Original	Revised	Cancelled	Disbursed	Undisbursed	Disbursed
P127035	IBRD-82330	Effective	USD	100.00	100.00	0.00	65.75	34.25	66%
P127034	TF-14205	Effective	USD	4.35	4.35	0.00	2.44	1.90	56%

#### Key Dates (by loan)

Project	Loan/Credit/TF	Status	Approval Date	Signing Date	Effectiveness Date	Orig. Closing Date	Rev. Closing Date
P127035	IBRD-82330	Effective	20-Mar-2013	14-Jun-2013	06-Sep-2013	31-Dec-2018	31-Dec-2018
P127034	TF-14205	Effective	14-Jun-2013	14-Jun-2013	06-Sep-2013	31-Dec-2018	31-Dec-2018

#### Cumulative Disbursements



## Restructuring History

There has been no restructuring to date.

## Related Project(s)

P127034-Green Energy Schemes for Low-carbon City in Shanghai