

Urban Scale Building Energy Efficiency and Renewable Energy (P130786)

EAST ASIA AND PACIFIC | China | Energy & Extractives Global Practice |

Global Environment Project | Investment Project Financing | FY 2013 | Seg No: 11 | ARCHIVED on 19-Oct-2018 | ISR34339 |

Implementing Agencies: Ministry of Housing and Urban-Rural Development, Beijing Housing and Urban-Rural Development Commission, Beijing Development and Reform Commission, Ningbo Housing and Urban-Rural Development Commission, PEOPLE'S REPUBLIC OF CHINA, Center of Science and Technology for Construction (CSTC)

Key Dates

Key Project Dates

Bank Approval Date: 26-Apr-2013 Effectiveness Date: 26-Aug-2013

Planned Mid Term Review Date: 31-Oct-2016 Actual Mid-Term Review Date: 31-Oct-2016

Original Closing Date: 31-Dec-2018 Revised Closing Date: 31-Dec-2018

Project Development Objectives

Project Development Objective (from Project Appraisal Document)

The proposed project development objective is to improve selected national and city-level policies for (1) the promotion of low-carbon, adaptive and livable urban forms; (2) an increase in energy efficiency in public and commercial buildings; and, (3) the scale-up of commercially viable rooftop solar PV deployment. The global environment objective of the proposed project is to reduce carbon dioxide emissions from buildings in selected Chinese cities by supporting improved policy making and implementation in promoting low-carbon, adaptive and livable urban forms, increasing energy efficiency in public and commercial buildings, and scaling up commercially viable rooftop solar PV deployment.

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

Components

Name

- 1. Promoting the Development of Low-Carbon, Adaptive and Livable Urban Forms: (Cost \$8.76 M)
- 2. Improving Energy Efficiency in Public and Commercial Buildings:(Cost \$18.53 M)
- 3. Scaling up Commercially Viable Rooftop Solar PV Deployment:(Cost \$2.00 M)
- 4. Project Management:(Cost \$1.50 M)

Overall Ratings		
Name	Previous Rating	Current Rating
Progress towards achievement of PDO	Satisfactory	Satisfactory
Overall Implementation Progress (IP)	 Moderately Satisfactory 	Moderately Satisfactory
Overall Risk Rating	Substantial	Substantial

Implementation Status and Key Decisions

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Work under the project continues to progress, and the project is largely on track to meet its PDO goals. Numerous activities to promote sustainable and low-carbon urban forms, improve the efficiency of public and commercial buildings, and contribute to the scaling up of commercial distributed solar PV have been completed under the project.

Component 1. To support the low-carbon urban form work, a workshop hosted by Ningbo was held in September 2017. A plan was agreed for drawing lessons and conclusions for the overall urban form work that will be used to inform urban planning and policies in Chinese cities.

Component 2. Energy Performance Benchmarking and Disclosure (EPB&D) systems have been established in Ningbo and Beijing and work on certified green buildings has progressed in both municipalities. Construction on the new green building pilot at Ningbo University has been completed and the building is undergoing a one year of trial operation to obtain its energy efficiency rating (3 star). As an alternative to the retrofit green building at Ningbo University, Ningbo officials are augmenting a municipal composting facility by adding green building components. The project is under construction and scheduled to be completed by end-2018.

Component 3. Implementation of Component 3, which is supporting the Beijing solar PV project, has made good progress on the two-way metering program to measure carbon emissions, the on-line renewable energy monitoring system which is fully functional, the renewable energy education system in Beijing schools, and support to the RESCO business model for solar PV.

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Risks

Systematic Operations Risk-rating Tool

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

Results

PDO Indicators by Objectives / Outcomes

Promotion of low-carbon, adaptive and livable urban forms

▶LOCAL urban planning and design principles recommended for inclusion in statutory urban planning standards and regulations (Yes/No, Custom)

	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	No	No	No	Yes
Date	01-May-2013	30-Apr-2018	30-Apr-2018	30-Jun-2018

Increase in energy efficiency in public and commercial buildings

▶ Energy performance benchmarking and disclosure (EPB&D) program for large public and commercial buildings developed at the national level and mandatory adoption by select cities. (Yes/No, Custom)

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	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	No	No	No No Yes 30-Apr-2018 30-Apr-2018 30-Jun-2018	
Date	01-May-2013	30-Apr-2018		
Scale-up of comm	ercially viable rooftop solar P	V deployment		
►Number of renew	able energy service contracts s	igned (Number, Custom)		
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	310.00	310.00	765.00
Date	01-May-2013	30-Apr-2018	30-Apr-2018	30-Jun-2018
▶CO2 emissions r	eduction associated with GEF a	ssistance (Tones/year, Cus	tom)	
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	15,300.00	15,300.00	85,120.00
Date	01-May-2013	30-Apr-2018	30-Apr-2018	30-Jun-2018

Intermediate Results Indicators by Components

2. Improving Energy Efficie	ncy in Public and Comm	ercial Buildings		
▶National and city BEP&D	oilot programs implemente	ed (Number, Custom)		
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	2.00	2.00	3.00
Date	01-May-2013	30-Apr-2018	30-Apr-2018	30-Jun-2018
▶Selected building EE and	green building policies in E	Beijing improved and new	policies informed (Yes/	No, Custom)
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	No	Yes	Yes	Yes
Date	01-May-2013	30-Apr-2018	30-Apr-2018	30-Jun-2018
►Outreach to local stakehol	ders and training of local t	trades in Beijing (number o	of people trained) (Num	ber, Custom)
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	1,750.00	1,750.00	1,000.00
Date	01-May-2013	30-Apr-2018	30-Apr-2018	30-Jun-2018
▶Floor area of green buildir	igs in Beijing received cert	tificates (Square Meter(m2	2), Custom)	
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	3,000,000.00	32,206,600.00	32,206,600.00	15,000,000.00

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Date	01-Jan-2013	30-Apr-2018	30-Apr-2018	30-Jun-2018
▶Bioclimatic and c	cost-optimal green building desi	gns demonstrated in Ningbo	(Yes/No, Custom)	
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	No	No	No	Yes
Date	01-May-2013	30-Apr-2018	30-Apr-2018	30-Jun-2018
Green building p	olicies in Ningbo improved and	new policies informed (Yes/	No, Custom)	
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	No	Yes	Yes	Yes
Date	01-May-2013	30-Apr-2018	30-Apr-2018	30-Jun-2018
►Outreach to loca	I stakeholders and training of lo	cal trades in Ningbo (numbe	er of people trained) (Nur	mber, Custom)
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	2,015.00	2,015.00	800.00
Date	01-May-2013	30-Apr-2018	30-Apr-2018	30-Jun-2018
Scaling un Com	mercially Viable Rooftop Sola	r PV Denloyment		
.	solar PV capacity under the Be	• ,	un Project (Megawatt)	Custom)
Firstalled Tooltop	·			·
Mala a	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	42.90	42.90	100.00
Date	01-Jan-2013	30-Apr-2018	30-Apr-2018	30-Jun-2018
Improved knowle	edge of local grid company abou	ut handling grid-connected re	ooftop PV systems (Yes/	No, Custom)
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	No	Yes	Yes	Yes
Date	01-May-2013	30-Apr-2018	30-Apr-2018	30-Jun-2018
▶Establishment of	Beijing solar energy informatio	n portal (Yes/No, Custom)		
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	No	Yes	Yes	Yes
Date	01-May-2013	30-Apr-2018	30-Apr-2018	30-Jun-2018
►Renewable energing (Number, Custom)	gy education delivery in public s	schools enhanced (number o	of demonstration laborate	ories established)
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	5.00	5.00	20.00
Date	01-May-2013	30-Apr-2018	30-Apr-2018	30-Jun-2018

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1. Promoting the Development of Low-Carbon, Adaptive and Livable Urban Forms									
▶Urban form studies completed (Number, Custom)									
	Baseline Actual (Previous) Actual (Current) End Target								
Value	0.00	2.00	2.00	4.00					
Date	01-May-2013 30-Apr-2018 30-Apr-2018 30-Jun-2018								
►Mayors and city planning of	▶Mayors and city planning officials trained (Number, Custom)								
	Baseline Actual (Previous) Actual (Current) End Target								
Value	0.00	2,966.00	2,966.00	150.00					
Date	01-May-2013	30-Apr-2018	30-Apr-2018	30-Jun-2018					
►City pilots of Local urban p	lanning and design compl	eted (Number, Custom)							
Baseline Actual (Previous) Actual (Current) End Target									
Value	0.00	1.00	1.00	3.00					
Date 01-May-2013 30-Apr-2018 30-Apr-2018 30-Jun-2018									

Data on Financial Performance

Disbursements (by loan)

Project	Loan/Credit/TF	Status	Approval Dat	te Sign	ing Date	Effectiveness	Date Orio	g. Closing Date	Rev. Closing	g Date
Key Dates (by Ioan)										
P130786	TF-14522	Effective	USD	12.00	12.00	0.00	6.53	5.47		54%
Project	Loan/Credit/TF	Status	Currency	Original	Revised	Cancelled	Disbursed	Undisbursed	% Г	isbursed

Cumulative Disbursements

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Restructuring History

Level 2 Approved on 31-Mar-2018

Related Project(s)

There are no related projects.

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