

ADB GEF PROJECT IMPLEMENTATION REPORT (PIR)

Project Profile 1.

ADB Official Project Title: Hebei Energy Efficiency Improvement and Emission

Reduction Project ADB Project Number:

44012-013/Grant 0364-PRC

	1	GEF ID (PMIS ID)	4621
*	2	Focal Area(s)	Climate change
	3	Region	Asia
1. General	4	Country	People's Republic of China
Information	5	GEF Project Title	Hebei Energy Efficiency Improvement and Emission Reduction Project
	6	Project Size (FSP; MSP)	US\$11.997 million
	7	Trust Fund (GEFTF; SCCF; LDCF)	US\$3.654 million
	8	GEF CEO Endorsement Date (mm/dd/yy)	20 August 2013
	9	ADB Approval Date (mm/dd/yy)	09 October 2013
	10	GEF Grant Signing (mm/dd/yy)	17 December 2013
	11	Project Implementation Start Date (mm/dd/yy)	21 January 2014
2. Milestone	12	Date of 1st GEF Grant Disbursement (mm/dd/yy)	30 September 2014
Dates	13	Final date of GEF Grant Disbursement (mm/dd/yy)	NA
	14	Proposed/Revised Implementation End (mm/dd/yy) Actual Implementation End (mm/dd/yy)	31 December 2018 NA
	15	Expected Financial Closure Date (mm/dd/yy)	30 April 2019
	16	PPG/PDF Funding (USD)	
	17	GEF Grant (USD)	3,654,546
a 4a	18	Total GEF Disbursement as of 30 June 2017 (USD)	1,104,631.82
3. Funding	19	Confirmed Co-Finance at CEO Endorsement (USD)	3,654,546
	20	Materialized Co-Finance at project mid-term (USD)	NA
	21	Materialized Co-Finance at project completion (USD)	NA
	22	Proposed Mid-term date (mm/dd/yy)	NA
and the second second	23	Actual Mid-Term date - if applicable (mm/dd/yy)	12-13 September 2016
4. Evaluations	24	Proposed Terminal Evaluation date (mm/dd/yy)	31 January 2019
	25	Actual Terminal Evaluation Date (mm/dd/yy)	NA
	26	Tracking Tools Required (Yes/No/ Focal Area TT)	*



	27	Tracking Tools Date - if applicable (mm/dd/yy) Midterm Tracking Tool Terminal Evaluation Tracking Tool	
	28	Overall Implementation Progress Rating (IP)	Moderately satisfactory
5. Ratings	29	Overall Development Objectives Rating (DO)	Moderately satisfactory
	30	Overall Risk Rating	Moderate risk
	31	Overall Project Rating	Moderately satisfactory
	32	Status (GEF grant for ADB board approval/ GEF grant on-going)	Ongoing
6. Status	33	Implementation Status (1st, 2nd, 3rd PIR, Final PIR)	Final PIR
7. Files	34	PIR File Name (GEFID#_2018_ADB_Country_ProjectName)	GEFID4621_2018_PIR_ADB_PRC_Hebei Energy Efficiency Improvement & Emission Reduction

11. **Project Contacts**

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Co-Implementing Partner Name and Agency Email	NA .
Project Coordinator/Manager Name and Agency Email	
UNDP Country Program Officer Email	



III. Project Implementation

A. Project Description:

The objective of the Project is increased investments and enhanced capacity to improve energy efficiency in the industrial sector in Hebei Province through (i) dissemination and demonstration of state of the art technologies in the iron and steel industry which is the largest energy consuming industry in Hebei Province, (ii) third party measurement and verification, and (iii) real-time monitoring of electricity consumption by large industries—and application of smart grid technologies for electricity demand monitoring and control.

To achieve these objectives, the grant financed activities were grouped into three components.

Component 1: Dissemination of innovative industrial energy saving technologies and mobilization of financing for energy saving projects utilizing these technologies. This component will support the dissemination of some of these technologies through the following activities:

- a. Awareness building of innovative energy-saving technologies.
- b. Undertaking feasibility studies involving innovative technologies for select enterprises.
- c. Facilitating mobilization of financing for demonstration energy saving projects.
- d. Establishing a technology center to promote and disseminate energy efficiency technologies in iron and steel industry in Hebei Province.

Component 2: Capacity building of the third-party monitoring and verification (M & V) agencies in Hebei Province and promoting sound energy management practices through market-based financial incentives. This component includes the following activities:

- a. Preparing a business plan for establishing a third-party (M&V) agency and guidelines for using third party M&V agencies.
- b. Capacity building of third party M&V agencies.
- c. Capacity building on ISO 50001 energy management system.
- d. Feasibility study on introducing market-based instruments to achieve energy efficiency improvements in Hebei Province.

Component 3: Demonstrating smart grid technologies to achieve electricity savings in industrial sector. This component includes following activities:

- a. Installation of electricity consumption monitoring sensors.
- b. Establishing provincial remote electricity consumption monitoring platform.
- c. Capacity building of industrial users and provincial agencies for identifying electricity saving opportunities utilizing the platform.
- d. Feasibility study on provincial level demand side management (DSM) program using smart grid technologies and the provincial electricity consumption monitoring platform.

B. Implementation Progress (IP) Rating:

The progress achieved under each component of the grant is summarized below:

Component 1: Dissemination of innovative industrial energy saving technologies and mobilization of financing for energy saving projects utilizing these technologies.



The Hebei government intends to concentrate on iron and steel sector and support the dissemination of some of the key technologies to further improve energy efficiency and reduce pollution. This will include undertaking preliminary technical and financial assessments for deploying several innovative energy-saving technologies in the iron and steel industry. Preference will be given to the technologies that have greater potential for scale up and energy-saving and pollution-reduction, and to select enterprises which are keen and ready to invest in these new and innovative technologies. Besides, attempts will be made to mobilize additional funding from other sources to conduct detailed technical, financial and environmental assessments and gain access to proprietary technologies. The compatibility of the industrial process and overall business strategy with the proposed new technology, financial capability to invest in new technology and commitment to cost share the feasibility study are some of the criteria to be taken into consideration. The activities for this component including:

- C1.1: Carry out feasibility studies involving innovative technologies for select enterprises. TOR has been sent to ADB for preliminary review. The recruitment is ongoing. Wu'an Yuhua Steel has been selected as the beneficiary unit of the project in May 2018.
- C1.2: (i) Awareness building on innovative energy-saving technologies, (ii) mobilization of financing for demonstration energy saving projects, (iii) Establishing a technology center to promote and disseminate energy efficiency technologies in iron and steel industry in Hebei Province. The contract amounting to CNY1,716,438 (equivalent to \$278,154.86) was signed with Hebei Fakai Scientific Power Utilization Service Co., Ltd. on 17 Nov 2014. The Inception Report has been completed, and 4 iron and steel enterprises were surveyed for data collection. The Interim Report was also finished. The input of experts was 11.17 person-months. According to the terms of payment and with the approval of the Provincial Department of Finance, two disbursements were paid, with the total amount being CNY344.645.83 (equivalent to \$52,507.36). They were: (i) the advance of CNY155,000 (equivalent to \$25,118.3) paid on 29 January 2015; (ii) the remuneration to experts and other reimbursable expenses paid on 18 January 2017 amounting to CNY189,645.83 (equivalent to \$27,657.66). However, influenced by the national policy of cutting overcapacity in the iron and steel industry and the market changes and other factors, the iron and steel enterprises generally show low enthusiasm for the energy efficiency improvement and retrofit projects with new technologies, so limited results are achieved in new technology application. Thus, it is very difficult to implement the contract for iron and steel industry. On 11 June 2018, Hebei Fakai Scientific Power Utilization Service Co., Ltd. requested to cancel their contract and the contract was terminated on 19 June 2018.

Component 2: Capacity Building of the third-party M&V agencies in Hebei Province and promoting sound energy management practices through market-based financial incentives.

This component is designed to promote and facilitate the establishment of third party M&V agencies in Hebei Province. In addition, awareness building of industrial establishments and energy service companies on ISO 50001 and the requirements for obtaining ISO 50001 will be included under this component. The capacity building of energy consulting firms to provide the necessary guidance to industrial establishments for obtaining ISO 50001 is also included. As market-based instruments, such as benchmarking, energy efficiency certificate trading, etc., are relatively new in the PRC and have not been used in Hebei Province; a feasibility study to introduce some of these instruments to Hebei Province will also be undertaken. The activities for this component including:



- C2.1: Capacity building on ISO 50001 energy management system. The contract was signed on 28 December 2017. The task included the following training: (i) ISO 50001 awareness training (three 1-day seminars); (ii) ISO 50001 internal auditor training (one class standard 3-days course); and (iii) ISO 50001 lead auditor training (one class standard 5-days course). The ISO 50001 awareness trainings were conducted in Handan, Shijiazhuang and Tangshan with 221 participants; one class offered standard 3-days course was conducted with 35 participants; and one class with standard 5-days course was conducted with 36 participants. The acceptance meeting was held on 20 June 2018, and the consultants are revising the reports according to the expert opinions.
- C2.1 (Goods) M&V equipment for (i) residual heat and pressure power generation; (ii) dual storage (electrical storage of heat and cool); (iii) heat pump; (iv) green lighting; (v) electric motor frequency conversion; (vi) special M&V vehicle. The equipment has been installed.
- C2.2: Preparing a business plan for a third-party M&V agency and guidelines for using third-party M&V agencies. The contracts have been signed with Yang Yinhai (business development), Wang Jian (business financing), Zhang Han (business management), and Zhang Ling (energy savings M&V) on 30 July 2017. The consultants have finished the tasks and outputs as required in the TOR.
- C2.3: Feasibility study on introducing market-based instruments to achieve energy efficiency improvements in Hebei Province. The consultants held the inception report review meeting on 5 November 2017 and the inception report was submitted. The following tasks have been completed: (i) Review and evaluation of the domestic and international experience and lessons in the application of market-based instruments to achieve energy efficiency improvements; (ii) Feasibility study of introducing such instruments to Hebei Province with the foreign consultants; (iii) Summary of the deficiencies in the introduction of such instruments to Hebei Province to achieve energy efficiency improvements, and proposal of suggestions.

Component 3: Demonstrating smart grid technologies to achieve electricity savings in industrial sector. Hebei provincial government actively participated in the National Comprehensive Demand Side Management Program, under which Tangshan City has been selected as one of the pilot cities in the first batch. According to the content of the pilot project, an Electricity Demand Management Platform using smart grid technologies will be established in Tangshan City, and the key electricity consuming enterprises will be connected to the platform. It is expected that the platform will be scaled up to cover all the key electricity consuming enterprises in Hebei Province considering lessons learned during the pilot. This component includes following activities:

- C3.1 (Goods) Installation of electricity consumption monitoring sensors. The contract was signed in December 2017, with the value of CNY6,100,000. In July 2018, a supplementary agreement was signed, changing the value of the contract into CNY6,954,000 due to procurement of additional equipment. Now the substation construction has started, and 3,200 substations have been finished.
- C3.1 Establishing provincial remote electricity consumption monitoring platform. On the
 national pilot program, 57 real-time monitoring reports for power utilization and 51 power
 utilization analysis reports were submitted to power consumers. 24 energy- saving projects
 such as electromotor modification, band steel cogging mill modification, capacitor box



modification and load optimization are successfully developed. After the completion of those projects, the annual power saving will be 8.1714 million KWH, and the power saving benefit will be RMB 4.215 million.

- C3.1 Capacity building of industrial users and provincial agencies for identifying electricity saving opportunities utilizing the platform. The contract was signed in November 2017. To date, the inception and interim reports have been submitted.
- C3.2: Feasibility study on provincial level demand side management program using smart grid technologies and the provincial electricity consumption monitoring platform. The contract was signed in November 2017. To date, the final report has been submitted.
- C3.2 (Goods) Provincial remote monitoring system platform software, hardware including platform server, monitoring screen, UPS power supply, firewall and auxiliary equipment. The contract was signed for CNY 2,413,580. Installation has been completed.

Project Management Component:

PMO is to hire a consultant firm to provide guidance and assistance on project routine management including coordinating project implementation, annual planning, goods procurement and consultant selection and contracting, financial management, progress report preparing, as well as project midterm and terminal evaluating. A professional tendering agency is required to be the sub-consultant to the consulting firm, which is specifically responsible for the bidding procedures of goods procurement.

CPM Project Management Advisory Firm. The contract was signed on 15 August 2014 with PFAN China Investment Consulting Co., Ltd, with total value of CNY1,060,518, to assist the PMO in project management.

a. GEF Grant Disbursement

The first disbursement under the grant was on 30 September 2014 for \$365,000 as advance to the imprest account. There was delay in the initial disbursement due to the time needed for the EA to establish the imprest account. As of 9 August 2018, the cumulative disbursement is \$1.451 million (40% of the total grant amount).

b. Gender Action Plan Implementation Status

Not applicable.

c. Social and Environmental Safeguard Plan Implementation Status

There are no incremental safeguard issues as it is supporting capacity building, feasibility studies, and smart grid pilot project on DSM. No involuntary resettlement or indigenous people issue is involved in this project. There are no grant covenants relating to social and safeguards. The loan covenants on safeguards were strictly followed without any violation found.

An environmental and social management system (ESMS) was established under the original project and the implementing agency has established an environment and social safeguards unit to implement the ESMS.



There were 8 subprojects in the first batch of original project. It adopts the mechanism of regular control and management to supervise the construction of the subprojects conducted according to the environmental management and monitoring plan. All the subproject units have implemented the environmental management plan (EMP) both in the construction phase and operation phase, except for Hebei Guangyuan Solar Energy Technology Co., Ltd. and Hebei Qianjin Iron and Steel Group Co., Ltd. that did not involve environmental management due to the nature of these two subprojects, i.e, establishment of energy management center in Qianjin and high/mid temperature solar energy heating water service in Guangyuan. During the construction of the project, the Environmental Management Plan is in full compliance with ADB Loan Agreement Requirement as well as the Compliance Status with National Laws and Regulations without any violation reported.

In June 2017, 4 subprojects were selected as the second batch, which were Yufeng Enterprises Group Co., Ltd. Ningjin County Regional Co-generation Project, Chengde Jianlong Special Steel Co., Ltd. Energy Efficiency & Emission Reduction Comprehensive Retrofitting Project, Chengde XinTongYuan New EP Material Co., Ltd. Tailings Utilized for Micro-crystal Products Project, Hebei Xuyang Coking Co., Ltd CDQ Residual Heat & Pressure Power Generation Project. At present, the four subprojects have begun to implement the EMP.

During the construction of the project, the Grievance Redress Mechanism (GRM) of the project was established. The project information was posted on the website (http://www.hbdsm.com/) since the loan effectiveness. All the subprojects also posted the project information on the construction site and have designated responsible staff for GRM in charge. Any compliant report will be sent to Project Executing Center. At present, the staff at the environmental position has been in charge of the GRM, whose name and contact information has been reported to the construction site and environmental protection department.

To conclude, during the project implementation period, no complaint incidents have been reported from the construction unit and the local environmental protection department, no environmental incidents or major technical changes were discovered. No breach was found in the implementation of subprojects and monitoring results against the requirement of EMP in the execution agreement of the subproject as well as local environmental laws and regulations.

C. Global Environmental Benefits (GEB) Objective/ Development Objective (DO) Rating:

See the rating by output categories in the DMF table below.



GEB/DO Rating

Design Summary	Design Summary	Performance Targets and Indicators with Baselines	GEB/DO Rating Assumptions and Risks	DO Rating/Remarks
Outcome Increased investments in energy efficiency in Hebei Province	Increased investments and enhanced capacity to improve energy efficiency in the industrial sector in Hebei Province	The project achieves annual energy saving of at least 260,000 tce by 2017.		Till December 2016, the 8 subprojects had all been completed and put into use. In September 2017, a third-party M&V agency was employed to make energy savings M&V to the 8 subprojects, affirming the first batch of subprojects had reached the energy efficiency plant capacity of 165.55MW, realizing 110.74% of expected index, the annual standard coal saving of 252,000 tons, the CO ₂ emission reduction of 740,000 tons and the SO ₂ emission reduction of 6355 tons.
		Energy saving projects deploying innovative technologies and resulting in energy savings of 350,000 tee is identified for financing under the second batch by 2017.	Availability of financing through the revolving fund and technology dissemination results in increased investments in energy efficiency.	In June 2017, 4 subprojects were selected for the second batch, i.e., Yufeng Enterprises Group Co., Ltd. Ningjin County Regional Co-generation Project, Chengde Jianlong Special Steel Co., Ltd. Energy Efficiency & Emission Reduction Comprehensive Retrofitting Project, Chengde XinTongYuan New EP Material Co., Ltd. Tailings Utilized for Micro-crystal Products Project, and Hebei Xuyang Coking Co., Ltd CDQ Residual Heat & Pressure Power Generation Project. The total investment of the project is CNY1.41 billion, including CNY0.445 billion from the ADB and CNY0.965 billion from the self-raised funds of the enterprises. After its completion, it is expected to realize the annual standard coal saving of 128,900 tons, the CO ₂ emission reduction of 378,000 tons and the SO ₂ emission reduction of 3,608.34 tons. The remaining ADB fund of CNY0.17 billion will be invested in two new subprojects for its full and better utilization.
		5% improvement in energy intensity of iron and steel industry by 2017	•	Energy intensity of iron and steel industry by 2014 comparing to 2010 could be available.



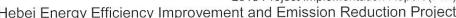
Design Summary	Design Summary	Performance Targets and Indicators with Baselines	Assumptions and Risks	DO Rating/Remarks
5		compared to 2010. Third party M&V agencies are used for verifying energy savings of 100,000 tee per annum by 2017.	Third party M&V agencies play a significant role in enhancing the M&V capacity in Hebei.	There are 8 subprojects in the first batch, and by June 2017, all of them have been measured and verified by a third-party M&V agency, 252,000 tce was verified.
		Smart grid technologies are used to identify electricity saving opportunities of at least 400 GWh by 2017.	Smart grid technologies are deployed to monitor and control electricity consumption.	As of March 2018, the construction of provincial platform and Tangshan substation has been completed. 27 enterprises have been connected to the platform and 4,702 monitoring points been installed. The monitoring power of the equipment end is 3.12GW. In reference to the peak load of 10.37GW of Tangshan in 2015, the online monitoring power has reached 30.95%. In addition, the provincial platform has been connected to the national platform. Since its operation, 109 power consuming analysis reports have been prepared, and 30 energy saving projects have been identified, including electric motor retrofitting, belt-steel rougher mill retrofitting, capacitor retrofitting, load-improvement etc. It is calculated that, when these projects are carried out, it is expected to save 50.54 GWh of electric energy per year, achieving annual energy-saving benefit RMB 26.8 million.
8	,	The project avoided/reduced annual emissions by 2016: CO ₂ : 668,669t SO ₂ :1,582t	· · · · · · · · · · · · · · · · · · ·	In September 2017, a third-party M&V agency was employed to make energy savings M&V to the 8 subprojects, affirming the first batch of subprojects had reached the annual CO ₂ emission reduction of 740,000 tons and the SO ₂ emission reduction of 6,355 tons.
		Additional \$200 million investment committed for the second batch subprojects by 2017	Commercial banks debt financing available for future subprojects leveraging the REF Risk: Lack of interest	In June 2017, 4 subprojects were selected as the second batch. The total investment of the project is CNY1.41 billion, including CNY0.445 billion from the ADB and CNY0.965 billion from the self-raised funds of the enterprises. After its completion, it's expected to realize the annual standard coal



Design Summary	Design Summary	Performance Targets and Indicators with Baselines	Assumptions and Risks	DO Rating/Remarks
			from commercial banks in debt financing; Delays in the selection of future subprojects by PMO.	saving of 128,900 tons, the CO ₂ emission reduction of 378,000 tons and the SO ₂ emission reduction of 3,608.34 tons. The remaining ADB fund of CNY0.17 billion will be invested in two new subprojects for its full and better utilization. The total investment for the two projects was CNY0.792 billion.
		Minimum of five new industrial technologies are successfully demonstrated	The intellectual property rights for these technologies are available at reasonable cost and technology providers are willing to transfer the technologies	 Wu'an Yuhua Iron and Steel Co., Ltd. has been selected as the beneficiary through the bidding agency, and its 2#80MW high temperature and ultrahigh pressure blast furnace gas power technology retrofit project was implemented. The subprojects of the second batch included Hebei Xuyang Coking Co., Ltd CDQ Residual Heat & Pressure Power Generation Project. The power service and management platform were installed in the industrial parks of Tangshan and Shahe, the service stations of Zhangjiakou-Shijiazhuang Expressway Administration and other areas.
	5	Third party M&V agencies are engaged in Hebei Province to verify the energy savings achieved by ESCO implemented projects	The government is willing to designate third party M&V agencies to verify energy savings for the purpose of paying fiscal subsidies.	The selection of the third-party M&V agency was completed, and Hebei Fakai and Hebei Jijian have accepted the M&V equipment financed by the grant. Also, GEF project recruited China Environmental United Certification Center to carry out (i) ISO 50001 awareness training (three 1-day seminars); (ii) ISO 50001 internal auditor training (one class standard 3-days course); and (iii) ISO 50001 lead auditor training (one class standard 5-days course). There were 221 participants in the ISO 50001 internal auditor training, 35 participants in the ISO 50001 internal auditor training and 36 participants in the ISO 50001 lead auditor training.
		Initiation of provincial level platform for remote monitoring and control of electricity	The smart grid technology can be successfully implemented to identify energy saving	The construction of provincial platform and Tangshan pilot has been completed. Also, the PMO has employed Nanjing Linyang as the consultancy firm to study the demand side management method based on the remote monitoring platform. And, as the bid winner of C3.1TRMS, Nanjing Linyang has



Design Summary	Design Summary	Performance Targets and Indicators with Baselines	Assumptions and Risks	DO Rating/Remarks
		consumption in Hebei Province	opportunities.	started the substation construction and finished 3,200 data substations, and the monitoring load was about 380GW.





D. Risk Rating:

The progress/situation of the assumed risks relating to specific Impact, Outcome, and Output is in the table below.

Design Summary	Performance Targets and Indicators with Baselines	Data Sources and Reporting Mechanisms	Risks	Progress and Remarks
Impact Improved energy efficiency and emission reduction in Hebei Province	Energy intensity reduced to 1.078 tee by 2020 compared to 1.585 tee in 2010 Unit energy consumption for steel manufacturing reduced to less than 0.500 tce/t in 2020 from 0.565 tce/t in 2010 SO2 emissions reduced by at least 12% by 2020, compared to 2010	Hebei Power Demand Side Management and Instruction Center data and reports	Delay in global agreement on greenhouse mitigation deprioritizes energy efficiency endeavors in the People's Republic of China.	Not likely. The Government is still to prioritize energy efficiency endeavors.
Outcome Increased investments and enhanced capacity to improve energy efficiency in the industrial sector in Hebei Province	Additional \$200 million investment committed for the second batch subprojects by 2017	Hebei Statistics Year Book Hebei Development and Reform Commission	Lack of interest from commercial banks in debt financing Delays in the selection of future subprojects by PMO.	Not likely. The PMO has selected 4 subprojects of the second batch and will continue to select 2 subproject units.
Outputs Capacity building of third party M&V agencies in Hebei Province	Establishing at least one third party M&V agency in Hebei Province which are accredited by the Ministry of Finance by 2015	Project completion report	There would be insufficient interest from government and host companies to obtain the services of third party M&V agencies.	Not likely. Has supported the capacity building of two third-party M&V agencies. Also, the ISO50001 training has been conducted.
Demonstrating smart grid technologies to achieve electricity	Smart grid technology for remote monitoring and control of electricity consumption is pilot- tested at 25 industrial installations in Tangshan City and several other cities in Hebei	Project completion report	The industrial consumers will not allow the monitoring and control of electricity consumption by third parties.	Not likely. The bid winner of C3.1TRMS, Nanjing Linyang, has started the substation construction



savings in the industrial sector	Province, resulting in electricity savings of 400 gigawatt- hour by 2015	or said	* ,	and finished 3,200 data substations by now, and the monitoring load was about
				380GW.



E. Overall Rating of the Project:

Moderately satisfactory. The project implementation is relatively slow, but the risks are unlikely to happen.

- F. Additional Comments Good Practices and Lessons Learned: N/A.
- G. Knowledge Management: N/A.

H. Location Data:

The Project location is Hebei Province, PRC. The country level coordinates are as follows:

First Batch	
Tangshan Jianlong Jianzhou Iron and Steel Go. Ltd.,	40° 11' 0" N, 117°58' 0"E
Zunhua	22
Hebei Guangyuan Solar Energy Tech, Co,, Xingtai	37° 4' 0" N, 114°29' 0"E
Hebei Fengmei Coking Co. Ltd., Fengfeng district,	36° 25' 11" N, 114° 12'46" E
Hebei Xinglong Grain Biochemical Co. Ltd., Quzhou	36° 46' 0" N, 114° 56' 0" E
Hebei Lianguan Carbon Electrode Co. Ltd., Jizhou	37° 33' 0" N, 115° 35'0" E
Hebei Yufeng Enterprise Group Co. Ltd., Ningjin	37° 37' 0" N, 115° 35'0" E
Hebei Qianjin Iron and Steel Group Co. Ltd., Langfang	39' 31'0"N, 116'42'0"E
Cangzhou CR Thermo Co., Ltd., Cangzhou	38° 19'0" N, 116°52'0" E
Second Batch	
Yufeng Enterprises Group Co., Ltd., Ningjin	37° 37'0" N, 114°55'0" E
Chengde XinTongYuan New EP Material Co., Ltd., Chengde	40°58′2.64″N, 117°56′6.06″E
Chengde Jianlong Special Steel Co., Ltd., Chengde	40°29'0.84"N, 117°34'59.57"E
Hebei Xuyang Coking Co., Ltd., Dingzhou	38°32'24.7"N, 114°57'37.0"E



For Projects that have conducted Midterm Review Mission and Project Completion Mission (from 1 July 2017 to 30 June 2018)

IV. Materialized Cofinancing

Co-financing Table

(For projects which underwent a mid-term review/evaluation or terminal evaluation in FY)

Materialized Co-financing

[Please refer to the PIF template on the GEF webpage]

Sources of Co- financing ¹	Name of Co- financer	Type of Co-financing ²	Amount Confirmed at CEO endorsement / approval	Actual Amount Materialized at Midterm	Actual Amount Materialized at Closing
NA					
			91		
		TOTAL	**		

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Reminder: Kindly include in your submission a copy of the following:

- 1. For projects that conducted **Midterm Review Mission**: Copy of the MOU Midterm Review Mission; BTOR and Updated <u>Tracking Tools</u>
- 2. For projects that conducted **Project Completion Mission**: Copy of the PCR, Copy of the MOU Midterm Review Mission; and Updated Tracking Tools

¹ Sources of Co-financing may include: Bilateral Aid Agency(ies), Foundation, GEF Agency, Local Government, National Government, Civil Society Organization, Other Multi-lateral Agency(ies), Private Sector, Other

² Type of Co-financing may include: Grant, Soft Loan, Hard Loan, Guarantee, In-Kind, Other





Signature:

Name of Project Officer: Lin Lu

Position:

Senior Energy Specialist, EAEN

Date:

08/13/2018

Endorsed by:

Division Director

Sujata Gupta Director, EAEN



Annex 1: DEFINITION OF RATINGS

Implementation Progress Ratings

Highly Satisfactory (HS): Implementation of **all** components is in substantial compliance with the original/formally revised implementation plan for the project. The project can be presented as "good practice".

Satisfactory (S): Implementation of **most** components is in substantial compliance with the original/formally revised plan except for only a few that is subject to remedial action.

Moderately Satisfactory (MS): Implementation of **some** components is in substantial compliance with the original/formally revised plan with **some** components requiring remedial action.

Moderately Unsatisfactory (MU): Implementation of **some** components is not in substantial compliance with the original/formally revised plan with **most** components requiring remedial action.

Unsatisfactory (U): Implementation of **most** components is not in substantial compliance with the original/formally revised plan.

Highly Unsatisfactory (HU): Implementation of **none** of the components is in substantial compliance with the original/formally revised plan.

Global Environment Objective/Development Objective Ratings

Highly Satisfactory (HS): Project is expected to achieve or exceed **all** its major global environmental objectives, and yield substantial global environmental benefits, without major shortcomings. The project can be presented as "good practice".

Satisfactory (S): Project is expected to achieve **most** of its major global environmental objectives, and yield satisfactory global environmental benefits, with only minor shortcomings.

Moderately Satisfactory (MS): Project is expected to achieve **most** of its major relevant objectives but with either significant shortcomings or modest overall relevance. Project is expected not to achieve **some** of its major global environmental objectives or yield some of the expected global environment benefits. **Moderately Unsatisfactory (MU):** Project is expected to achieve of its major global environmental

objectives with major shortcomings or is expected to achieve only **some** of its major global environmental objectives.

Unsatisfactory (U): Project is expected **not** to achieve **most** of its major global environment objectives or to yield any satisfactory global environmental benefits.

Highly Unsatisfactory (HU): The project has failed to achieve, and is not expected to achieve, **any** of its major global environment objectives with no worthwhile benefits.

Risk Rating

Risk ratings will assess the overall risk of factors internal or external to the project which may affect implementation or prospects for achieving project objectives. Risks of projects should be rated on the following scale:

High Risk (H): There is a probability of greater than 75% that assumptions may fail to hold or materialize, and/or the project may face high risks.

Substantial Risk (S): There is a probability of between 51% and 75% that assumptions may fail to hold and/or the project may face substantial risks.

Modest Risk (M): There is a probability of between 26% and 50% that assumptions may fail to hold or materialize, and/ or the project may face only modest risks.

Low Risk (L): There is a probability of up to 25% that assumptions may fail to hold or materialize, and/ or the project may face only modest risks.