INITIAL POVERTY AND SOCIAL ANALYSIS

Country:	China, People's Republic of	Project Title:	Qingdao Smart Low-Carbon District Energy Project	
Lending/Financing Modality:	Project loan	Department/ Division:	East Asia Department/Energy Division	
	I. POVERTY IMPACT AN	ND SOCIAL DIME	NSIONS	
A. Links to the National Poverty Reduction Strategy and Country Partnership Strategy				
The project contributes to the Twelfth Five-Year Plan of the PRC (2011–2015), which emphasizes resource conservation and environmental protection and gives priority to improving energy efficiency and developing cleaner energy sources. The project will support the plan targets for (i) reducing sulfur dioxide emissions by 10% through reduced coal consumption for district heating, and (ii) improving the efficiency of district heating supply by 20% and reducing losses from distribution systems. The project supports the goals of improving energy efficiency and resource utilization outlined in the PRC's Medium- and Long-Term Energy Conservation Plan (2005), and the 2006 Decision of the State Council on Enhancing Energy Conservation No. 28, which emphasizes energy conservation, particularly in the heating subsector. The project is consistent with ADB's Strategy 2020 which puts strategic priority on environmentally sustainable growth,a and the country partnership strategy, 2011–2015 for the PRC which focuses on the strategic pillar on resource efficiency and environmental sustainability.b The project also supports the Energy Efficiency Initiative of ADB.				
The proposed project will upgrade the district energy (heating and cooling) system by introducing energy efficient European standard low temperature and smart district heating and cooling networks using various clean heat sources such as natural gas, wasted heat recovery, and solar, thereby improving the energy efficiency of district heating and cooling system and reducing emission of greenhouse gases and other air pollutants in Qingdao City.				
B. Targeting Classification				
☐ General Intervent	ion □ Individual or Household (TI-H) □	Geographic (TI-G)	☐ Non-Income MDGs (TI-M1, M2, etc.)	
General Intervention. The project will provide cleaner and reliable heating services to the general public in the project area including the low-income households.				
C. Poverty and So	ocial Analysis			
1. Key issues and potential beneficiaries. The expected direct beneficiaries of the project are (i) residents including low-income households, (ii) students and patients, and (iii) heating and cooling users at commercial and government buildings in the project area (Lilun district). Indirect beneficiaries are population in surrounding districts of the project area through improved air quality. Access to cleaner, reliable, and affordable heating service is one of the basic needs of potential beneficiaries. Affordability might be considered a constraint among low-income households to access clean and reliable heating and cooling service.				
The project will provareas. The project was carbon monoxide pocleaner and reliable reduce domestic chosystems from individual winter by providing of	vill (i) reduce cases of respiratory diseases bisoning by providing safer district heating heating services; (ii) improve the living co pre for space heating; (iv) reduce heating of	s through improved services, and prov nditions through ac expenditure by swi eating systems; (v)	ide better medical environment by providing dequate and reliable heating services; (iii) tching to centralized energy-efficient heating provide better schooling environment during	
3. Focus of (and resources allocated in) the PPTA or due diligence. The PPTA will focus on (i) collecting social and poverty data; (ii) identifying project benefits by income groups; (iii) assessing affordability for accessing the heating services among income groups; (iv) assessing types of employment opportunities, and identifying effective measures to improve employment opportunities for local people including the poor and women; and (v) assessing labor retrenchment issue due to small and large coal-fired boilers closure.				
4. Specific analysis for policy-based lending.				

II. GENDER AND DEVELOPMENT	•
1. What are the key gender issues in the sector/subsector that are likely to be re Existing heating method using household heating stoves have a higher impact o chore for space heating, (ii) incidence of respiratory diseases related to indoor a monoxide poisoning and fire accident.	n women in terms of increasing (i) domestic
2. Does the proposed project or program have the potential to make a contribution empowerment of women by providing women's access to and use of opportunities participation in decision making? ☑ Yes □ No	es, services, resources, assets, and
Yes, the project will improve access to modern heating service, which is one of t region in gender inclusive manner. All sector-related gender issues will be resolv above). Also, the project team will advocate gender-balanced employment opporappropriate.	ved after project implementation (item 1
3. Could the proposed project have an adverse impact on women and/or girls or ☐ Yes ☑ No No, the project will not have adverse impact on women and/or girls or widen gen	
4. Indicate the intended gender mainstreaming category: ☐ GEN (gender equity theme) ☐ EGM (effective gender mainstreaming) ☐ SGE (some gender elements) ☐ NGE (no gender elements)	
III. PARTICIPATION AND EMPOWERN	MENT
 Who are the main stakeholders of the project, including beneficiaries and negro participate in the project design. Main stakeholders of the project are Qingdao Taineng Gas Group Limited, Qingd Commission, Qingdao Finance Bureau, heat sources operators, communities, and have been participating in the project design through consultations and series of affected communities have participated in public consultations during the domes preparation and will also have an opportunity to engage in project design improvementings and other communication channels that will be set during the project primplementation. How can the project contribute (in a systemic way) to engaging and empower particularly, the poor, vulnerable and excluded groups? What issues in the project excluded? Accessibility and affordability of district heating and cooling service among various PPTA implementation through social survey and interviews. What are the key, active, and relevant civil society organizations in the proorganization participation in the project design? M Information generation and sharing M Consultation N Collaboration N Are there issues during project design for which participation of the poor and how shall they be addressed? Yes No 	dao Municipal Development and Reform and businesses in the project areas. They review and approval processes. Potentially tic environment impact assessment ement through potential public consultation reparation stage as well as project and stakeholders and beneficiaries, and the project area? What is the level of civil society Partnership and excluded is important? What are they and
The PPTA will seek opportunities to extend heating and cooling services to low-i	ncome housing.
IV. SOCIAL SAFEGUARDS	
A. Involuntary Resettlement Category □ A □ B □ C □ FI	
1. Does the project have the potential to involve involuntary land acquisition resulting displacement? ☐ Yes ☑ No	
No. According to the draft feasibility study report, the proposed project will not er displacement or economic displacement as (i) heating pipelines will be laid unde roadways, (ii) heat exchangers, heat storage, small size natural gas boilers, roof existing premises in the buildings, and (iii) heat and chiller pumps will be installed	rground within the existing right of way or top solar collectors will be installed within the
2. What action plan is required to address involuntary resettlement as part of the	
☐ Resettlement plan ☐ Resettlement framework ☐ Environmental and social management system arrangement	☐ Social impact matrix☑ None
— Environmental and social management system all all gentlent	E INOLIC

B. Indigenous Peoples Category □ A □ B □ C □ FI
1. Does the proposed project have the potential to directly or indirectly affect the dignity, human rights, livelihood systems, or culture of indigenous peoples? ☐ Yes ☒ No
2. Does it affect the territories or natural and cultural resources indigenous peoples own, use, occupy, or claim, as their ancestral domain? ☐ Yes ☑ No
3. Will the project require broad community support of affected indigenous communities? ☐ Yes 图 No
4. What action plan is required to address risks to indigenous peoples as part of the PPTA or due diligence process? ☐ Indigenous peoples plan ☐ Indigenous peoples planning framework ☐ Social impact matrix
☐ Environmental and social management system arrangement ☑ None
V. OTHER SOCIAL ISSUES AND RISKS
What other social issues and risks should be considered in the project design?
☑Creating decent jobs and employment(L) ☑Adhering to core labor standards(L) ☑Labor retrenchment(L) ☑Spread of communicable diseases, including HIV/AIDS (L) ☐Increase in human trafficking ☑Affordability(M) ☐Increase in unplanned migration ☐Increase in vulnerability to natural disasters ☐Creating political instability ☐Creating internal social conflicts ☐Others, please specify
2. How are these additional social issues and risks going to be addressed in the project design? Standard assurances on labor and spread of communicable diseases will be included in the project agreement. Labor retrenchment plan due to small boiler closures will be prepared, if needed.
VI. PPTA OR DUE DILIGENCE RESOURCE REQUIREMENT
1. Do the terms of reference for the PPTA (or other due diligence) contain key information needed to be gathered during PPTA or due diligence process to better analyze (i) poverty and social impact; (ii) gender impact, (iii) participation dimensions; (iv) social safeguards; and (vi) other social risks. Are the relevant specialists identified? Yes No
2. What resources (e.g., consultants, survey budget, and workshop) are allocated for conducting poverty, social and/or gender analysis, and participation plan during the PPTA or due diligence?
A total of 3.5 person-months of social analysis and safeguard specialists (international for 1.5 person-months, and national for 2 person-months) will be hired to conduct social due diligence during PPTA implementation.