China

Hebei Clean District Heating Project

Qiaodong District Central Heating and Housing Supporting Facility

Construction Project, Zhangjiakou City

Abbreviated Resettlement Action Plan

Zhangjiakou Dongyuan Heating Co., Ltd. (ZDHCO)

August 2015

Abbreviations

AAOV - Average Annual Output Value

AH - Affected Household
AP - Affected Person
HD - House Demolition
LA - Land Acquisition

M&E - Monitoring and EvaluationMLS - Minimum Living SecurityRAP - Resettlement Action Plan

ZDHCO - Zhangjiakou Dongyuan Heating Co., Ltd.

Units

Currency unit = Yuan (RMB) \$1.00 = CNY6.15 1 hectare = 15 mu

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1. Overview

The Qiaodong District Central Heating and Indemnificatory Housing Supporting Facility Construction Project, Zhangjiakou City (hereinafter, the "Subproject") is one of the 4 subprojects of the Hebei Clean Heating Project. ZDHCO is the implementing agency of the Subproject. The Subproject aims to replace existing scattered small coal-fired boilers with the combined heat and power source of Zhangjiakou Power Plant (already in operation), and close coal-fired boiler rooms gradually within two years. The heating area of the Subproject is 8.489 million m².

The Subproject consists of the following components: 1) construction of a heat exchange station with a heating area of 3.88 million m²; 2) construction of primordial and primary heating pipelines of 20.5km; 3) construction and reconstruction of 75 local heating stations and building heating stations; 4) reconstruction of two 70MW gas-fired boilers the existing site of ZDHCO; and 5) installation of heat meters for 1,340 residential buildings in existing communities.

In addition, a 40km long gas pipeline from Yisen Natural Gas Company to ZDHCO will be constructed by Yisen Natural Gas Company.

ZDHCO, founded in January 2009, is a solely state-funded enterprise specializing in central urban heating, construction, repair, maintenance, correction protection, heat insulation, consulting, etc. ZDHCO serves a heating area of 34 km² and a population of 249,600.

Yisen Natural Gas Company, founded in Xuanhua County in 2014, has a workforce of 20, and specializes in the preliminary investigation and gas supply planning of the Shaanxi-Beijing Line 4 (Zhangjiakou) Project. The company plans to complete the design of the gas supply networks in Xuanhua and Zhangjiakou City, and commence construction in 2016, and put them into operation in 2017 and 2018. By then, the maximum gas supply to Zhangjiakou City will be 500 million m³, and the annual gas supply to ZDHCO will be over 55 million m³, with a guaranteed maximum hourly gas consumption of over 1.66 x m³/n.

The heating source of the Subproject, Zhangjiakou Power Plant, is wholly owned by Datang International Power Generation Co., Ltd., founded in 1988, located west of Zhujiazhuang Village, Hezixi Xiang, Xuanhua District. Zhangjiakou Power Plant involves neither land acquisition (LA) nor house demolition (HD). See Appendix 1 for the Due Diligence Report of Zhangjiakou Power Plant.

In the Subproject, two 70MW gas-fired boilers of ZDHCO will be reconstructed to meet the heating demand of the subproject area in 2017. See Appendix 2 for the Due Diligence Report of ZDHCO.



Figure 1 Location Map of Zhangjiakou Power Plant, and Xuanhua and Qiaodong Districts

The heat exchange station constructed under the Subproject is located northwest of the junction of Yangjiafen Road and Jianshe East Street in Qiaodong District, and occupies 2.84 mu of state-owned land. It involves neither LA nor HD. See Appendix 3 for the due diligence report of this plot.

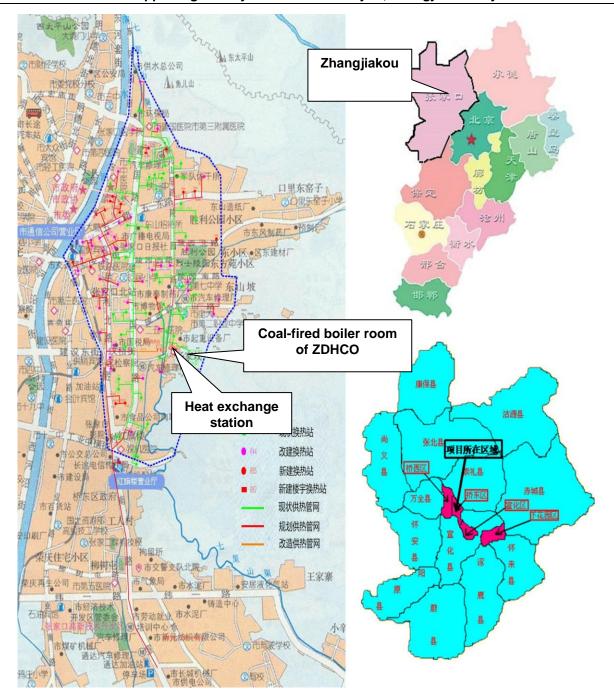


Figure 2 Location Map of the Subproject Area, Heating Pipelines, Zhangjiakou and Qiaodong District

The new DN1200 primordial pipeline is connected to the hot water pipeline of the power plant on Wei'er Road, runs northward along Shengli Central Road to Jianshe East Street, and is then divided into two branches, including a DN700 primordial pipeline running northward along Shengli North Road to Wuyi Street, and a DN800 primordial pipeline running eastward along Jianshe East Street to the heat exchange station. See Figure 3.

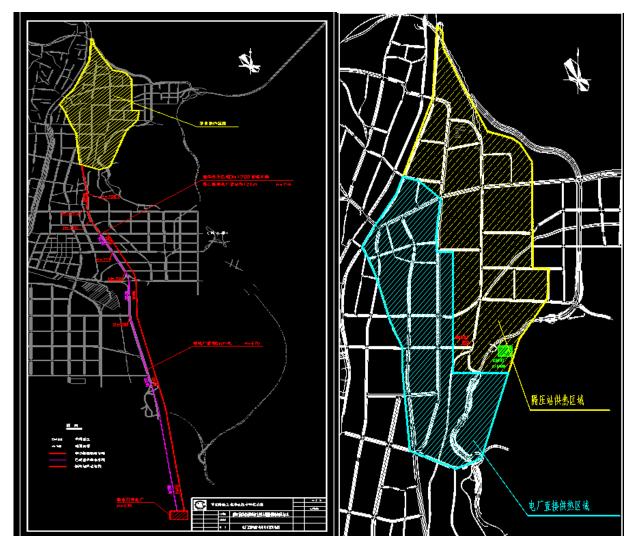


Figure 3 Sketch Map of Pipelines and Heating Area

The natural gas pipeline constructed under the Subproject runs northward from the natural gas joint out of Yanghe Town through the Yanghe River, Chahar Street and Shengli South Road, into Shengli Central and North Roads along Shengli South Road, and to the heating plant via Hanqiao Street and Jianshe East Street. The natural gas pipeline is about 40km long, and its route is shown in Figure 4.

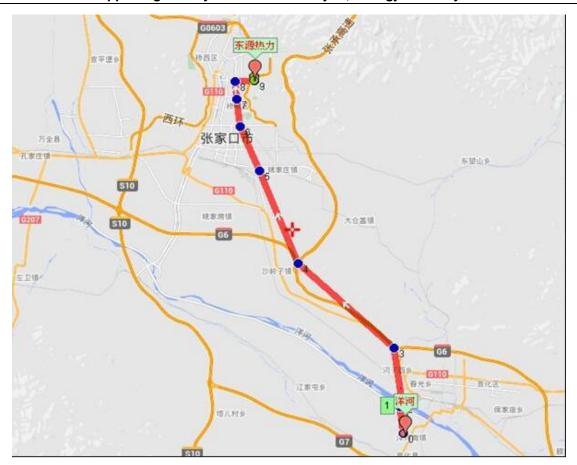


Figure 4 Route Map of Natural Gas Pipeline

The primordial and primary pipelines, and natural gas pipeline constructed under the Subproject will be constructed on urban trunk roads, involving neither the acquisition of rural collective land nor HD.

Among the 58 local heating stations constructed under the Subproject, 41 are reconstructed from small boiler rooms and 17 newly constructed, involving neither LA nor HD. The Notice of the Zhangjiakou Municipal Utility Administration Bureau on Policies for Urban Central Heating states that land must be reserved for heating station construction during the planning of new projects, existing boiler rooms will be converted into heating stations, and boiler room land and aboveground buildings will be offered to ZDHCO for management and use without compensation. See Appendix 4: Relevant Documents (1) for the relevant document of the Zhangjiakou Municipal Government.

2. Background of the Subproject

2.1 Socioeconomic profile of the subproject area

Zhangjiakou City is located in northwestern Hebei Province, bordered by Chengde City on the east, Beijing City on the southwest, Baoding City on the south, and Shanxi Province on the west and south, being an important logistics center, traffic hub and industrial base in northern China. The city has a land area of 36,800 km², and governs 13 counties, 4 districts (Qiaodong, Qiaoxi, Xuanhua and Xiahuayuan), two administrative zones, a high-tech zone and an industry cluster zone. In 2013, the city's resident population was 4.4133 million, GDP 131.7 billion yuan, fiscal revenue 22.476 billion yuan, urban residents' per capita disposable income 20,525 yuan, and farmers' per capita net income 6,384 yuan.

Qiaodong District is located in the east part of the urban area of Zhangjiakou City, with a land area of 34.35 km². The district governs 5 sub-districts, one town and 9 administrative villages. In 2013, the district's population was 218,000, including a nonagricultural population of 201,000, GDP 14.68 billion yuan, fiscal revenue 1.123 billion yuan, urban residents' per capita disposable income 21204 yuan, and farmers' per capita net income 10,130 yuan. See Figure 2.

2.2 Background and significance of the Subproject

At the end of 2013, the heated building area within the heating area of ZDHCO was 6.072 million m², including 3.485 million m² covered by central heating and 2.587 million m² covered by small boiler heating. This not only wastes energy but also pollutes the environment. With the heating improvement of old communities and the development of the city, the planned heating area of Qiaodong District will reach 8.489 million m². Accelerating the popularization of combined heat and power, and the reconstruction of coal-fired boilers to realize central heating and improve air quality is an urgent task for municipal infrastructure construction in Qiaodong District. In addition, since Zhangjiakou City will host the 2022 Winter Olympics together with Beijing, it is also imperative to further improve air quality, in which replacing scattered coal-fired boilers with central heating is an important measure. The Subproject will generate significant social, environmental and economic benefits.

2.3 Components

The Subproject consists of the following components:

- 1) Construction of a heat exchange station with a heating area of 3.88 million m², with a building area of 2,016 m² and a floor area of 2.84 mu (including the dispatching center);
- 2) Construction of primordial and primary heating pipelines of 20.5km, with diameters of DN1200-DN100;
- 3) Construction and reconstruction of 75 local heating stations and building heating stations, including 17 new heating stations, 41 reconstructed heating stations and 17 new building heating stations:
- 4) Reconstruction of two 70MW gas-fired boilers, and expansion a gas pressure regulating station with a building area of about 200 m² on the existing site of ZDHCO.

In addition, a 40km long gas pipeline will be constructed by Yisen Natural Gas Company.

2.4 Investment

The Subproject has a gross investment of 451.433 million yuan, including a Bank loan of USD33.5 million, equivalent to 206.025 million yuan, accounting for 45.64% of gross investment, domestic commercial bank loans of 125 million yuan, accounting for 27.69% of gross investment, a central finance appropriation for the central heating of indemnificatory housing of 29 million yuan, accounting for 6.42% of gross investment ,and counterpart funds of 91.41 million yuan, accounting for 20.05% of gross investment. The Subproject will be constructed from 2015 to 2017.

2.5 Key technical and economic indicators

See Table 2-1.

Table 2-1 Key technical and economic indicators

| No. | Item | Unit | Qty. |
|-----|--|---------------------|--------|
| 1 | Heating area | $0,000 \text{ m}^2$ | 848.9 |
| 2 | Overall heating capacity | W/m ² | 57.8 |
| 3 | Heating load | MW | 492.38 |
| 4 | Design capacity of the heat exchange station | MW | 224.6 |
| 5 | Floor area of the heat exchange station | mu | 2.84 |
| 6 | Building area of the heat exchange station | m^2 | 2016 |
| 7 | Annual heating capacity | 0,000 GJ/a | 486.5 |

| 8 | Pipelines | Km | 20.48 |
|----|---|----------------------|----------|
| 9 | New heating stations | / | 17 |
| 10 | New building heating stations | / | 17 |
| 11 | Reconstructed heating stations | / | 41 |
| | Heating parameters | | |
| | Operating pressure of primordial pipelines | MPa | 1.5 |
| | Water supply/return temperature of primordial pipelines | $^{\circ}\mathbb{C}$ | 130/70 |
| 12 | Operating pressure of primary pipelines | MPa | 1.25 |
| | Water supply/return temperature of primary pipelines | $^{\circ}\mathbb{C}$ | 120/60 |
| | Operating pressure of secondary pipelines | MPa | 8.0 |
| | Water supply/return temperature of secondary pipelines | $^{\circ}\mathbb{C}$ | 75/50 |
| 13 | Staffing | / | 52 |
| 14 | Gross investment | 0,000 yuan | 45143.26 |

3. Construction schedule

The Subproject will break ground in August 2015, be partly put into operation in 2015, and reach design capacity in 2017. The schedule is as follows:

- •Feasibility study and approval: November 2014 March 2015
- Preliminary design and approval: March 2015 April 2015
- Construction drawing design: April 2015 July 2015
- Bid invitation: July 2015 August 2015
- Construction: August 2015 September 2017
 Trial operation: October 2015 October 2017

See Table 3-1.

Table 3-1 Construction schedule

| | Tuble of Football dotton Softedule | | | | | | | |
|-----|------------------------------------|-----------------|-----------|-------|-------|--|--|--|
| No. | Item | Unit | 2015 | 2016 | 2017 | | | |
| 1 | Pip | oeline constru | ction | | | | | |
| | Primordial and primary pipelines | km | 6.57 | 11.25 | 2.67 | | | |
| 2 | Heatir | ng station cons | struction | | | | | |
| | Local heating stations | / | 14 | 39 | 5 | | | |
| | Building heating stations | / | 5 | 12 | | | | |
| 3 | Heat exchange station | / | | 1 | | | | |
| 4 | Boiler room reconstruction | / | | | 1 | | | |
| 5 | Small boiler room closedown | / | 19 | 74 | 6 | | | |
| 6 | Metering improvement | / | 170 | 1030 | 140 | | | |
| 7 | Central heating area | 0,000 m2 | 445.1 | 793.2 | 848.9 | | | |
| 8 | Covered area of old buildings | 0,000 m2 | 33.1 | 198.6 | 26.9 | | | |
| 9 | Covered area of new buildings | 0,000 m2 | 63.5 | 149.5 | 28.8 | | | |

4. Impacts of the Subproject

The Subproject involves neither the acquisition of rural collective land nor HD, and all permanently and temporarily occupied land is state-owned land, including 21.12 mu of permanently occupied land and 382.81 mu of temporarily occupied land.

4.1 Permanent land occupation

The heat exchange station constructed under the Subproject will occupy 2.84 mu of state-owned land, and the constructed or reconstructed 58 local heating stations and 17 building heating stations will occupy 17.5 mu of land (based on 200m² each for local heating stations and 3m² each for building heating stations). The two reconstructed 70MW gas-fired boilers and the

expanded gas pressure regulating station will occupy 0.8 mu of land. 21,12 mu of land will be occupied in total. See Table 4-1.

| Table 4-1 Summary | of | permanently | occu | pied | land |
|--------------------------|----|-------------|------|------|------|
|--------------------------|----|-------------|------|------|------|

| ltem | Otv | Permanently occupied land (mu) | | | |
|---------------------------------|---------------|--------------------------------|------------|-------|--|
| iteiii | Qty. | State-owned | Collective | Total | |
| Heat exchange station | 1 | 2.84 | 0 | 2.84 | |
| Heating stations | 58 (local) | 17.40 | 0 | 17.4 | |
| Heating stations | 17 (building) | 0.08 | 0 | 0.08 | |
| Gas-fired boilers | 2 | 0.5 | 0 | 0.5 | |
| Gas pressure regulating station | 1 | 0.3 | 0 | 0.3 | |
| Total | 77 | 21.12 | 0 | 21.12 | |

4.2 Temporary land occupation

382.81 mu of land will be occupied temporarily during pipeline construction, mostly on urban roads, involving neither LA nor HD. See Table 4-2.

Table 4-2 Summary of temporarily occupied land

| No. | Road | Dia. | Length (m) | Width (m) | Type | Area (mu) | | | | |
|-----|--|--------|---------------|-----------|----------------|-----------|--|--|--|--|
| | | Heat | ing pipelines | | | | | | | |
| 1 | Shengli Central-North Road | DN1200 | 3666 | 12 | Trunk road | 65.99 | | | | |
| 2 | Shengli North Road | DN1000 | 1294 | 10 | Trunk road | 19.41 | | | | |
| 3 | Jianshe East Street | DN800 | 1030 | 8 | Trunk road | 12.36 | | | | |
| 4 | Shengli North Road, Jianguo Road, Linyuan Road | DN700 | 2367 | 8 | Trunk road | 28.40 | | | | |
| 5 | Shengli North Road | DN600 | 577 | 8 | Trunk road | 6.92 | | | | |
| 6 | Shengli North Road, Wuyi Street | DN500 | 230 | 8 | Trunk road | 2.76 | | | | |
| 7 | Wuyi Street | DN450 | 16 | 8 | Trunk road | 0.19 | | | | |
| 8 | Dong'an Street, Heishiba Road, Linyuan Road | DN400 | 1379 | 8 | Trunk road | 16.55 | | | | |
| 9 | Dong'an Street, Shengjian Street | DN350 | 744 | 8 | Trunk road | 8.93 | | | | |
| 10 | Dong'an Street, Heishiba Road | DN300 | 531 | 3 | Trunk road | 2.39 | | | | |
| 11 | Malu Street, Heishiba Road | DN250 | 2188 | 3 | Trunk road | 9.85 | | | | |
| 12 | Linyuan North Street | DN200 | 2770 | 3 | Community road | 12.46 | | | | |
| 13 | Community road | DN150 | 1639 | 3 | Access road | 7.38 | | | | |
| 14 | Dongxing Street, community road | DN125 | 1482 | 3 | Access road | 6.67 | | | | |
| 15 | Dongxing Street, community road | DN100 | 568 | 3 | Access road | 2.56 | | | | |
| | Subtotal | | 20481 | | | 202.81 | | | | |
| | | Ga | as pipeline | | | | | | | |
| 16 | Chahar Street, Shengli South, Central and North Roads | DN200 | 40000 | 3 | Trunk roads | 18.0 | | | | |
| | Total | | 60481 | | | 382.81 | | | | |

4.3 Measures to mitigate impacts

The new pipelines under the Subproject will be constructed on urban roads and sidewalks, which will have negative impacts on pedestrians and motor vehicles. In order to minimize negative impacts of construction, the construction agency will take the following measures: conducting construction in stages and in a semi-enclosed manner to allow for the passage of pedestrians, bicycles and vehicles, erecting access roads and bridges, taking safety measures, indicating construction sites visually, preventing flying dust by sprinkling and coverage, and storing construction materials orderly and removing waste materials timely to reduce land occupation.

5. Compensation for road occupation and excavation

According to the Administrative Measures for the Collection of Urban Road Occupation and Excavation Fees promulgated by the Ministry of Construction and Ministry of Finance, excavation repair fees (including ditch filling fees) and road occupation fees should be paid for urban road occupation during pipeline construction in the Subproject. Excavation repair fees and road occupation fees are included in the construction budget of the Subproject, and are estimated to be 50.4834 million yuan. Since the Subproject is a municipal project, it will be exempted from excavation repair and road occupation fees, and it is just necessary to restore excavated pavements to the original condition after the completion of construction.

5.1 Applicable policies and regulations

- •Regulations on the Administration of Urban Roads (Decree [1996] No.198 of the State Council)
- Administrative Measures for the Collection of Urban Road Occupation and Excavation Fees (JC [1993] No.410)
- •Notice of the Hebei Provincial Construction Commission on Forwarding the Administrative Measures for the Collection of Urban Road Occupation and Excavation Fees (HPCC [1994] No.6)
- •Notice of the Hebei Provincial Construction Commission on Adjusting Rates of Urban Road Excavation and Restoration (HPCC [1997] No.175)

5.2 Applicable provisions

1. Applicable provisions in the Regulations on the Administration of Urban Roads

Article 29 Only with the approval of the administrative department for municipal engineering may pipes, lines or pole lines be built attaching to urban roads.

Article 31 When there is a need to temporarily occupy any urban road due to some special reasons, an approval must be obtained from the administrative department for municipal engineering and the department for the administration of public security and communications.

Article 33 Those who are to dig urban roads for some engineering operation shall go through the procedures for examination and approval with the administrative department for municipal engineering and the department for the administration of public security and communications by producing the approval documents issued by the city planning department and relevant design papers.

Article 35 Those approved to dig urban roads shall put clear signs and set up protective walls on the operation sites and, after the completion of the operation, immediately clean up the sites and notify the administrative department for municipal engineering for inspection.

Article 36 Those approved to occupy or dig urban roads shall make the occupation or digging at the approved location and within the approved area and period. When there is a need to change the location or extend the area or period, they shall go through in advance the procedures for approving the changes.

Article 37 Those occupying or digging urban roads under the administration of the administrative department for municipal engineering shall pay fees for the occupation or renovation-after-digging of urban roads to the said department.

Fee rates for occupation of urban roads shall be drawn up by the administrative department for construction of the people's government of province or autonomous region or by the administrative department for municipal engineering of the people's government of municipality directly under the central government, and submitted to the departments of finance and price control at the same level for ratification.

2. Applicable provisions in the Administrative Measures for the Collection of Urban Road Occupation and Excavation Fees

Article 2 Urban roads referred to herein mean roads within urban planning areas (including road land). All organizations and individuals occupying or excavating roads within urban planning areas must observe these measures.

Article 3 Urban construction departments of local governments at or above county level shall be responsible for the collection of road occupation and excavation fees.

Article 4 Organizations and individuals occupying roads temporarily for construction, storage, parking, marking or other special purposes must pay road occupation fees.

Organizations and individuals excavating roads for construction, repair or other special purposes must pay excavation repair fees.

Article 5 Road occupation fees shall be based on road grade, type of occupation (operating or else), use, etc.

Excavation repair fees shall be based on road structure, age, material cost, etc.

3. Applicable provisions in the Notice of the Hebei Provincial Construction Commission on Forwarding the Administrative Measures for the Collection of Urban Road Occupation and Excavation Fees (HPCC [1994] No.6), and the Notice of the Hebei Provincial Construction Commission on Adjusting Rates of Urban Road Excavation and Restoration (HPCC [1997] No.175)

Road occupation and excavation fees shall include road excavation fees, ditch filling fees and road occupation fees. Their rates are set out in Tables 5-1, 5-2 and 5-3.

No. Item Rate (yuan/m²) **Remarks** Concrete pavement repair 230 1) Tripled for roads completed within 1 2 Asphalt pavement repair 180 two years, doubled for roads completed within 3-5 years 3 Ordinary tile sidewalk repair 100 2) Doubled for excavation during 4 Square concrete tile sidewalk repair 150 winter (from November to March) 5 Color tile sidewalk repair 210 6 Concrete curbstone repair 45

Table 5-1 Road excavation rates

Table 5-2 Ditch filling rates

| | ranio o 2 2 mining rando | | | | | | |
|-----|----------------------------------|----------------|----------------------------|--|--|--|--|
| No. | Item | Rate (yuan/m²) | Remarks | | | | |
| 1 | Sand filling to depth of 0-1m | 90 | Filling is performed by | | | | |
| 2 | Sand filling to depth of 1-2m | 140 | administrative departments | | | | |
| 3 | Sand filling to depth of over 2m | 230 | of municipal facilities to | | | | |
| 4 | Sand filling to depth of 0-1m | 60 | specified density and | | | | |
| 5 | Sand filling to depth of 1-2m | 70 | humidity. | | | | |
| 6 | Sand filling to depth of over 2m | 100 | | | | | |

Table 5-3 Road occupation rates (yuan/m² per day)

| Item | Primary trunk roads | Secondary trunk roads | Branch trunk roads | Alleys | Remarks |
|-----------------|---------------------|-----------------------|--------------------|--------|-------------------|
| Shed | 1.5 | 1 | 0.8 | 0.5 | Not exceeding |
| Stall | 1 | 0.5 | 0.3 | 0.2 | these rates for |
| Construction | 0.3 | 0.2 | 0.15 | 0.1 | Shijiazhuang City |
| Vehicle parking | 0.4 | 0.3 | 0.2 | 0.1 | |
| Bicycle parking | 0.2 | 0.15 | 0.1 | 0.05 | |
| Marketplace | | | 0.2 | 0.1 | |

5.3 Fee rates

1. Road excavation rates

Table 5-4 Road excavation rates

| No. | Segment | Type of occupation | Type of pavement | Age | Rate (yuan/m²) |
|-----|--|--------------------|------------------|-----------|----------------|
| 1 | | | | | |
| 2 | Shengli North Road | Trunk road | Asphalt | >6 years | 180 |
| 3 | Jianshe East Street | Trunk road | Asphalt | >6 years | 180 |
| 4 | Shengli North Road, Jianguo Road, Linyuan Road | Trunk road | Asphalt | >6 years | 180 |
| 5 | Shengli North Road | Trunk road | Asphalt | >6 years | 180 |
| 6 | Shengli North Road, Wuyi Street | Trunk road | Asphalt | >6 years | 180 |
| 7 | Wuyi Street | Trunk road | Asphalt | >6 years | 180 |
| 8 | Dong'an Street, Heishiba Road, Linyuan Road | Trunk road | Asphalt | >6 years | 180 |
| 9 | Dong'an Street, Shengjian Street | Trunk road | Asphalt | >6 years | 180 |
| 10 | Dong'an Street, Heishiba Road | Trunk road | Asphalt | >6 years | 180 |
| 11 | Malu Street, Heishiba Road | Trunk road | Asphalt | >6 years | 180 |
| 12 | Linyuan North Street, community road | Community road | Concrete | 3-5 years | 230+230=460 |
| 13 | Community road | Access road | Concrete | >6 years | 230 |
| 14 | Dongxing Street, community road | Access road | Asphalt | >6 years | 180 |
| 15 | Dongxing Street, community road | Access road | Asphalt | 3-5 years | 180+180=360 |
| 16 | Chahar Street, Shengli South, Central and North Roads | Trunk road | Asphalt | >6 years | 180 |

2. Ditch filling rates

Table 5-5 Ditch filling rates

| Excavation depth | Unit | Rate (yuan) |
|--------------------------------------|----------------|-------------|
| Backfilling with earth to 2m or more | m ² | 100 |

3. Road occupation rates

Table 5-6 Road occupation rates

| | Table 5-6 Road occupation rates | | | | | | | |
|-----|---|--------------------|----------------------|--------------------|-----------------------|--|--|--|
| No. | Segment | Type of occupation | Road | Days of occupation | Rate (yuan/m²-day) | | | |
| 1 | | | | | 0.3×0.8=0.24 | | | |
| 2 | Shengli North Road | Trunk road | Primary trunk road | 90 | 0.3×0.8=0.24 | | | |
| 3 | Jianshe East Street | Trunk road | Secondary trunk road | 30 | 0.2×0.8=0.16 | | | |
| 4 | Shengli North Road, Jianguo Road, Linyuan Road | Trunk road | Primary trunk road | 50 | 0.3×0.8=0.24 | | | |
| 5 | Shengli North Road | Trunk road | Primary trunk road | 90 | 0.3×0.8=0.24 | | | |
| 6 | Shengli North Road, Wuyi Street | Trunk road | Primary trunk road | 30 | 0.3×0.8=0.24 | | | |
| 7 | Wuyi Street | Trunk road | Primary trunk road | 30 | 0.3×0.8=0.24 | | | |
| 8 | Dong'an Street, Heishiba Road, Linyuan Road | Trunk road | Secondary trunk road | 60 | 0.2×0.8=0.16 | | | |
| 9 | Dong'an Street, Shengjian Street | Trunk road | Secondary trunk road | 60 | 0.2×0.8=0.16 | | | |
| 10 | Dong'an Street, Heishiba Road | Trunk road | Secondary trunk road | 60 | 0.2×0.8=0.16 | | | |
| 11 | Malu Street, Heishiba Road | Trunk road | Secondary trunk road | 30 | 0.2×0.8=0.16 | | | |
| 12 | Linyuan North Street, community road | Community road | Branch road | 60 | 0.15×0.8=0.12 | | | |
| 13 | Community road | Access road | Neighborhood road | 50 | 0.1×0.8=0.08 | | | |
| 14 | Dongxing Street, community road | Access road | Neighborhood road | 30 | 0.1×0.8=0.08 | | | |
| 15 | Dongxing Street, community road | Access road | Neighborhood road | 30 | 0.1×0.8=0.08 | | | |

| 16 | Chahar Street, Shengli South, Central and North Roads | Trunk road | Primary trunk road | 90 | 0.3×0.8=0.24 | |
|----|--|------------|--------------------|----|--------------|--|
|----|--|------------|--------------------|----|--------------|--|

5.4 Road occupation, excavation repair and ditch filling fees

For pipeline construction under the Subproject, excavation repair fees of 27.28 million yuan, ditch filling fees of 14.0891 million yuan and road occupation fees of 9.1144 million yuan will be paid in total, including excavation repair fees of 12.88 million yuan, ditch filling fees of 6.0891 million yuan and road occupation fees of 1.9145 million yuan for the heating pipelines, and excavation repair fees of 14.4 million yuan, ditch filling fees of 8 million yuan and road occupation fees of 7.2 million yuan for the natural gas pipeline. . See Tables 5-7 and 5-8.

Table 5-7 Excavation repair fees

| No. | Segment | Length (m) | occupation | Excavation width (m) | Floor area (m²) | Excavation repair fees (0,000 yuan) | Ditch filling fees (0,000 yuan) |
|-------|--|---------------|-----------------|----------------------|-----------------------|--|---------------------------------------|
| | | | eating pipeline | | | | |
| 1 | Shengli Central-North Road | 3666 | Trunk road | 5 | 18330 | 329.94 | 183.3 |
| 2 | Shengli North Road | 1294 | Trunk road | 4 | 5176 | 93.17 | 51.76 |
| 3 | Jianshe East Street | 1030 | Trunk road | 3 | 3090 | 55.62 | 30.9 |
| 4 | Shengli North Road, Jianguo Road, Linyuan Road | 2367 | Trunk road | 3 | 7101 | 127.82 | 71.01 |
| 5 | Shengli North Road | 577 | Trunk road | 3 | 1731 | 31.16 | 17.31 |
| 6 | Shengli North Road, Wuyi Street | 230 | Trunk road | 3 | 690 | 12.42 | 6.9 |
| 7 | Wuyi Street | 16 | Trunk road | 3 | 48 | 0.86 | 0.48 |
| 8 | Dong'an Street, Heishiba Road, Linyuan Road | 1379 | Trunk road | 3 | 4137 | 74.47 | 41.37 |
| 9 | Dong'an Street, Shengjian Street | 744 | Trunk road | 3 | 2232 | 40.18 | 22.32 |
| 10 | Dong'an Street, Heishiba Road | 531 | Trunk road | 2 | 1062 | 19.12 | 10.62 |
| 11 | Malu Street, Heishiba Road | 2188 | Trunk road | 2 | 4376 | 78.77 | 43.76 |
| 12 | Linyuan North Street, community road | 2770 | Community road | 2 | 5540 | 254.84 | 55.4 |
| 13 | Community road | 1639 | Access road | 2 | 3278 | 75.39 | 32.78 |
| 14 | Dongxing Street, community road | 1482 | Access road | 2 | 2964 | 53.35 | 29.64 |
| 15 | Dongxing Street, community road | 568 | Access road | 2 | 1136 | 40.90 | 11.36 |
| | Subtotal | | | | 60891 | 1288.00 | 608.91 |
| | | Na | tural gas pipel | ine | • | | |
| 16 | Chahar Street, Shengli South, Central and North Roads | 40000 | Trunk road | 2 | 80000 | 1440.0 | 800.0 |
| Total | | 60481 | | | 140891 | 2728.00 | 1408.91 |

Table 5-8 Road occupation fees

| No. | Segment | Length (m) | Road | Width (m) | Floor area (m²) | Days of occupation | Occupation fees (0,000 yuan) |
|-----|---|---------------|--------------|--------------|-----------------------|--------------------|------------------------------------|
| | | Heatir | ng pipelines | | | | |
| 1 | Shengli Central-North Road | 3666 | Trunk road | 12 | 25662 | 90 | 95.02 |
| 2 | Shengli North Road | 1294 | Trunk road | 10 | 7764 | 90 | 27.95 |
| 3 | Jianshe East Street | 1030 | Trunk road | 8 | 5150 | 30 | 3.96 |
| 4 | Shengli North Road, Jianguo Road, Linyuan Road | 2367 | Trunk road | 8 | 11835 | 50 | 22.72 |
| 5 | Shengli North Road | 577 | Trunk road | 8 | 2885 | 90 | 9.97 |
| 6 | Shengli North Road, Wuyi Street | 230 | Trunk road | 8 | 1150 | 30 | 1.32 |
| 7 | Wuyi Street | 16 | Trunk road | 8 | 80 | 30 | 0.09 |
| 8 | Dong'an Street, Heishiba Road, | 1379 | Trunk road | 8 | 6895 | 60 | 10.59 |

| | Linyuan Road | | | | | | |
|-------|--|---------|----------------|---|--------|----|--------|
| 9 | Dong'an Street, Shengjian Street | 744 | Trunk road | 8 | 3720 | 60 | 5.71 |
| 10 | Dong'an Street, Heishiba Road | 531 | Trunk road | 3 | 531 | 60 | 1.53 |
| 11 | Malu Street, Heishiba Road | 2188 | Trunk road | 3 | 2188 | 30 | 3.15 |
| 12 | Linyuan North Street, community road | 2770 | Community road | 3 | 2770 | 60 | 5.98 |
| 13 | Community road | 1639 | Access road | 3 | 1639 | 50 | 1.97 |
| 14 | Dongxing Street, community road | 1482 | Access road | 3 | 1482 | 30 | 1.07 |
| 15 | Dongxing Street, community road | 568 | Access road | 3 | 568 | 30 | 0.41 |
| | Subtotal | | | | | | 191.45 |
| | | Natural | gas pipeline | | | | |
| 16 | Chahar Street, Shengli South, Central and North Roads | 40000 | Trunk road | 3 | 120000 | 60 | 720.0 |
| Total | _ | 60481 | | | 194319 | | 911.44 |

6. Impacts of closedown of scattered coal-fired boiler rooms

Among the 99 scattered small coal-fired boiler rooms (with 159 small boilers in total) to be closed down, 71 are enterprises or public institutions, 12 property management companies and 12 community committees. The closedown of small boiler rooms will affect their workers' livelihoods to some extent.

6.1 Overview of affected workers

In heating year 2014-2015, the 99 small boiler rooms have 259 boiler workers in total, including stokers, repairmen, handymen, etc., all being seasonal workers, namely working at boiler rooms in the 5-month heating period only. The 259 boiler workers include 254 males and 5 females.

In order to learn impacts of the closedown of boiler rooms on boiler workers, the task force sampled 8 boiler rooms randomly among the 99 boiler rooms randomly, and conducted a questionnaire survey and interviews with 20 boiler workers (including two females). It is found that the respondents have the following characteristics:

- 1. Relatively old age: The 20 respondents range from 41 to 58 years, averaging 50 years.
- 2. Low educational levels: Among the 20 respondents, 14 have received junior high school education, accounting for 70%; 5 have received primary school education, accounting for 25%; and only one has received senior high school education, accounting for 5%.
- 3. Lack of other skills: Among the 20 respondents, 10 have been boiler workers for 5-10 years, accounting for 65%, and 3 for over 10 years, accounting for 15% (these 13 workers are certified, accounting for 60%); 14 do farm work at home in the non-heating period, accounting for 70%, and the other 6 do odd jobs.
- 4. Lack of other income sources: The monthly wages of the 20 boiler workers are within the range of 1,600-2,500 yuan, averaging 2,050 yuan, and their per capita income in the 5-month heating period is about 10,000 yuan. For 15 respondents (75% of all respondents), boiler room income accounts for over 60% of household income.

6.2 Impact analysis

The closedown of boiler rooms will affect workers who have worked there for many years mainly, because they lack other skills, are relatively old, and have difficulty in reemployment. The loss of their current jobs will also affect their household income greatly.

6.3 Affected workers' attitudes to and needs for the Subproject

All the 20 boiler workers interviewed support the Subproject, but most of them worry about future employment and income after the closedown of boiler rooms, especially elder ones. Their main needs are as follows:

- 1. Workers who have certificates of qualification and having worked at boiler rooms for many years expect to deal with pipeline repair in residential communities for ZDHCO, because they are experienced in their former jobs and can hardly master new skills.
- 2. Younger (below 50 years) workers also expect to do skilled jobs related to heating through training, such as the routine maintenance of equipment at heating stations.
- 3. Female workers expect to do cleaning jobs at the heat exchange station or in communities after the completion of the Subproject.
- 4. Some workers newly recruited in 2014 expect the government to provide them with employment information, and some expect practical skills training if possible in order to work elsewhere.

Table 6-1 Basic information on affected boiler rooms and workers, and resettlement modes of boiler workers

| | Table of Easte line | | | | , | | | Boile | r | A | | Desettlement med | |
|-----|--|-----------|-----------------|---------|-----------------|---------------|--------------|-------|---------|---------------|----|-----------------------|---------|
| No. | Boiler room | Building | Boiler capacity | # of | Type of | Year of close | W | orke | rs | Average | | Resettlement mode | 9 |
| NO. | Boller room | area (m²) | (ton/hour) | boilers | operator | | Sub tal | Male | Fen | pay (yuan) | | be reemployed by | Leaving |
| | | | (ton/nour) | | | -down | subto tal | ale | ma e | (yuaii) | N | Employer | Leaving |
| 1 | Buildings 1, 2, 3, 4, 5 and 10, Wuyi Road backstreet | 18872 | 2 | 2 | PMC | 2016 | 2 | 2 | 0 | 1600 | 1 | PMC, cleaning | 1 |
| 2 | Hengkai Property Management (south of Building 9, Fu'an Street) | 48280 | 10 | 1 | PMC | 2016 | 5 | 5 | 0 | 1800 | 3 | PMC, cleaning | 2 |
| - | Buildings 17-31, Garden Community | 40730.51 | 4 | 1 | FIVIC | 2010 | 5 | 5 | U | 1600 | 3 | FINIC, Cleaning | 2 |
| | Buildings 1&2, Fu'an South Street | 5383.98 | 2 | 1 | | | | | | | | | |
| 3 | Buildings 7&8, Zhonghou Alley | 4605 | 2.5 | 1 | Community | 2016 | 2 | 2 | 0 | 1800 | 2 | ZDHCO, repair | 0 |
| 4 | Buildings 5&6, Zhonghou Alley | 2235 | 1.4 | 1 | Audit bureau | 2016 | 2 | 2 | 0 | 1600 | 0 | | 2 |
| 5 | Building 1, Zhonghou Alley | 1246 | 0.75 | 1 | Bank | 2016 | 1 | 1 | 0 | 1800 | 1 | Bank, security | 0 |
| 6 | Xiandai Property Management (between Buildings 1&2, Shiqing Alley) | 26129.2 | 6 | 1 | PMC | 2016 | 3 | 3 | 0 | 2000 | 2 | PMC, cleaning | 1 |
| 7 | Tiexie Primary School | 10000 | 2 | 1 | PMC | 2016 | 2 | 2 | 0 | 2000 | 2 | PMC, cleaning | 0 |
| 8 | Relief station | 2000 | 1.5 | 2 | Relief station | 2016 | 1 | 1 | 0 | 1700 | 0 | | 1 |
| | Catholic church | 1500 | 1 | 1 | Catholic church | 2016 | 4 | 2 | 4 | 2000 | 2 | Court elegation | 2 |
| 9 | Residential building of people's court | 5750 | 4 | 1 | People's court | 2016 | 4 | 3 | 1 | 2000 | 2 | Court, cleaning | 2 |
| 10 | No.1 courtyard of the railway bureau | 9062 | 4 | 1 | Railway | 2016 | 2 | 2 | 0 | 2000 | 1 | Railway, cleaning | 1 |
| 11 | Hengkai Property Management (Tu'ergou Community) | 110242 | 10 | 1 | PMC | 2016 | 6 | 6 | 0 | 1800 | 2 | PMC, repair | 4 |
| | Hengkai Property Management (Tielu Street) | 30000 | 10 | 1 | PMC | | | | | | | | |
| 12 | Behind Building 14, Shengbei Garden | 95300 | 10 | 1 | Residential | 2016 | 7 | 6 | 1 | 1700 | 4 | PMC, repair, cleaning | 3 |
| | Behind Building 14, Shengbei Garden | 15000 | 6 | 1 | Residential | | | | | | | | |
| 13 | 90# courtyard | 95300 | 6 | 1 | Residential | 2016 | 3 | 3 | 0 | 2500 | 2 | ZDHCO, repair | 1 |
| 14 | Courtyard of municipal planning bureau | 11000 | 1 | 1 | Bureau | 2016 | 1 | 1 | 0 | 2200 | 1 | Bureau, cleaning | 0 |
| 15 | Planning and design institute | 10000 | 1 | 1 | Institute | 2016 | 1 | 1 | 0 | 2200 | 1 | Institute, security | 0 |
| 16 | Beijing railway division (Lianchuang Building) | 152077 | 10 | 2 | Railway | 2016 | 8 | 8 | 0 | 1600 | 5 | Railway, repair, | 5 |
| 17 | Beside Building 8, Junei Community | 11705 | 1.5 | 2 | Railway | 2016 | 2 | 2 | 0 | 2400 | 5 | cleaning, security | 3 |
| 18 | Chunyu Property Management | 270000 | 10 | 2 | PMC | 2016 | 9 | 9 | 0 | 1800 | 4 | PMC, cleaning, | 5 |
| 10 | No.6, Lingyuan South Street | 3000 | 0.5 | 2 | FIVIC | 2010 | 9 | Э | U | 1600 | 4 | security | 5 |
| 19 | Residential building of postal office | 1779.52 | 2 | 1 | Postal | 2016 | 4 | 4 | 0 | 1800 | 1 | PMC, security | 3 |
| 19 | No.2, Lingyuan South Street | 23000 | 2 | 1 | PMC | 2010 | 4 | 4 | U | | Į. | FIVIC, Security | 3 |
| 20 | No.8 Lingyuan Road | 12500 | 2 | 1 | Army | 2016 | 2 | 2 | 0 | 2000 | 2 | Army, repair | 0 |
| 21 | No.4, Lingyuan North Street | 1000 | 0.5 | 8 | Residential | 2016 | 1 | 1 | 0 | 2000 | 1 | ZDHCO, repair | 0 |
| 22 | District local taxation bureau | 2700 | 0.79 | 1 | Bureau | 2015 | 1 | 1 | 0 | 2500 | 1 | Bureau, cleaning | 0 |

| 23 | Yijun Garden Hotel | 200 | 1 | 1 | Hotel | 2015 | 1 | 1 | 0 | 1800 | 1 | Hotel, cleaning | 0 |
|-----|--|----------|-----|---|----------------|------|---|---|---|------|---|-----------------------------|---|
| 24 | 2# courtyard of railway division | 68351 | 6 | 2 | Railway | 2016 | 3 | 3 | 0 | 2200 | 1 | Railway, security | 2 |
| | Hengkai Property Management | 15000 | 6 | 1 | PMC | | | | | | 1 | PMC, cleaning | |
| 25 | 147 Billiard Hall | 5000 | 2.5 | 1 | Residential | 2016 | 5 | 5 | 0 | 1800 | 1 | ZDHCO, repair | 2 |
| | Dong'an Mall | 41500 | 2 | 2 | Dong'an Mall | | | | | | 1 | Cleaning | |
| 200 | Residential quarter of 251 Hospital | 35000 | 10 | 2 | Heenitel | 2017 | _ | _ | _ | 4000 | 2 | Lloopital addiaba | 2 |
| 26 | Residential quarter of 251 Hospital | 20000 | 6 | 1 | Hospital | 2017 | 5 | 5 | 0 | 1800 | 3 | Hospital, odd jobs | 2 |
| 27 | Residential quarter of air forces | 70000 | 4 | 3 | Army | 2017 | 4 | 4 | 0 | 2500 | 2 | Army | 2 |
| 28 | Zhongbao Community | 72000 | 6 | 2 | Community | 2015 | 4 | 4 | 0 | 2000 | 1 | Community, cleaning | 3 |
| 29 | Kaifa residential quarter | 14600 | 2 | 1 | Residential | 2015 | 2 | 2 | 0 | 1800 | 2 | ZDHCO, repair | 0 |
| 30 | Shijiazhuang No.7 Construction Co. | 2542.5 | 1.5 | 1 | Company | 2016 | 1 | 1 | 0 | 2200 | 0 | | 1 |
| 31 | Zhangjiakou Gas Co. | 5000 | 1 | 1 | Company | 2016 | 1 | 1 | 0 | 2200 | 1 | Company, cleaning | 0 |
| 32 | China Unicom Zhangjiakou Branch | 15700 | 7 | 1 | Company | 2015 | 3 | 3 | 0 | 1700 | 2 | Company, security, cleaning | 1 |
| 33 | Residential quarter of agriculture college | 10294 | 1.5 | 1 | College | 2015 | 2 | 2 | 0 | 2000 | 1 | College, cleaning | 1 |
| 34 | Residential quarter of normal college | 17800 | 3 | 1 | College | 2015 | 2 | 2 | 0 | 2100 | 2 | College, cleaning | 0 |
| 35 | Residential quarter of Industrial and Commercial Bank of China | 12100 | 4 | 1 | Bank | 2015 | 2 | 2 | 0 | 2500 | 2 | Bank, cleaning | 0 |
| 36 | No.7 High School | 13000 | 4 | 1 | School | 2015 | 2 | 2 | 0 | 1900 | 1 | School, security | 1 |
| 37 | Zhangjiakou Municipal Transport Bureau | 5000 | 2 | 1 | Bureau | 2015 | 1 | 1 | 0 | 2000 | 0 | | 1 |
| 38 | Residential building of granary | 26000 | 2 | 1 | Granary | 2016 | 2 | 2 | 0 | 2200 | 0 | | 2 |
| | Residential building of oil company | 7326 | 4 | 1 | Company | | | | | | 1 | Company, cleaning | 1 |
| | Shengshi Garden | 22039 | 4 | 1 | PMC | | | | | | 1 | PMC, cleaning | 1 |
| 39 | Jiahe Community | 7181.05 | | | PMC | 2016 | 9 | 9 | 0 | 1600 | 1 | PMC, cleaning | 1 |
| | Jinsha Community | 10131.03 | | | PMC | | | | | | 0 | | 1 |
| | Residential quarter of fuel company | 5284 | | | Company | | | | | | 2 | Company, cleaning | 0 |
| 40 | Railway community | 33217 | 4 | 1 | Railway | 2016 | 3 | 3 | 0 | 2800 | 1 | Railway, security | 2 |
| 41 | Residential building of postal office | 13024 | 1.5 | 2 | Postal office | 2015 | 2 | 2 | 0 | 2400 | 0 | | 2 |
| 42 | Tianlun Garden | 11498 | 2 | 1 | PMC | 2015 | 2 | 2 | 0 | 1800 | 2 | PMC, security | 0 |
| 43 | No.15 Wuyi Road backstreet | 5390 | 1.5 | 1 | PMC | 2016 | 1 | 1 | 0 | 1600 | 0 | | 1 |
| 44 | 22# courtyard, Wuyi Road backstreet | 1789 | 1 | 1 | Bureau | 2016 | 1 | 1 | 0 | 1600 | 1 | Bureau, odd jobs | 0 |
| 45 | Building 8, Dong'an Street; Building 69, Shengli North Road | 14200 | 4 | 2 | Residential | 2016 | 2 | 2 | 0 | 2500 | 2 | ZDHCO, repair | 0 |
| 46 | Residential quarter of 251 Hospital | 36949 | 6 | 2 | Hospital | 2016 | 3 | 3 | 0 | 2600 | 1 | Hospital, cleaning | 2 |
| 47 | Residential building of water resources bureau | 1100.25 | 0.5 | 1 | Residential | 2016 | 1 | 1 | 0 | 2000 | 1 | ZDHCO, repair | 0 |
| 48 | No.37 Jianguo Road | 3564 | 1 | 1 | Company | 2015 | 1 | 1 | 0 | 2000 | 1 | Company, cleaning | 0 |
| 49 | No.38 Jianguo Road | 21500 | 6 | 1 | People's court | 2015 | 2 | 2 | 0 | 2000 | 0 | | 2 |

| People's Bank of China Zhangijakou Sub-branch 15000 6 | 50 | No.77 Shengli North Road | 4550 | 1.5 | 1 | Army | 2016 | 1 | 1 | 0 | 1600 | 1 | Army, cleaning | 0 |
|--|----|--|----------|----------|----|-------------|------|---|---|---|------|---|----------------------|---|
| Sub-branch Sub | | | 15000 | 6 | 1 | | | _ | | | | | | _ |
| Second Price | 51 | | | | | Bank | 2016 | 5 | 5 | 0 | 3300 | 2 | Bank, odd jobs | 3 |
| No.97 Wuyi Street | | , , , , , , , , , , , , , , , , , , , | | 6 | ' | | | | | | | | | |
| No.9 Nuyl Street S407 2 1 PMC 2017 3 3 0 1700 3 PMC, cleaning 0 Seismic central station 1800 0.5 1 Bureau 2017 2 2 0 2000 2 Bureau, cleaning 0 No.7 Linyuan West Street 30000 10 1 Company 2017 2 2 0 2000 2 Bureau, cleaning 0 1 1 Company 2017 2 2 0 2000 2 Bureau, cleaning 0 2 2 2 2 2 2 2 2 2 | 52 | | | 1 | ' | Residential | 2016 | 2 | 2 | 0 | 1800 | 0 | | 2 |
| Seismic central station | | · · · · · · · · · · · · · · · · · · · | | | ' | | | | | | | | | |
| No.7 Linyuan West Street 30000 10 1 Bureau 2017 2 2 0 2000 2 Bureau, cleaning 0 | 53 | <u> </u> | + | | | PMC | 2017 | 3 | 3 | 0 | 1700 | 3 | PMC, cleaning | 0 |
| No.7 Linyuan West Street 30000 10 1 1 Company 2017 2 2 0 1600 2 Company, odd jobs 0 56 No.10 High School 25000 10 1 School 2015 2 2 0 2000 1 School, cleaning 1 1 No.7 Lingyuan Road 3000 2 1 Residential 2016 1 1 0 1800 1 ZDHCO, repair 0 No.9 Linyuan West Street 30000 2 3 Bank 2015 3 3 0 2000 1 Bank, odd jobs 2 2 2 2 2 2 2 2 2 | 54 | | | | ' | Bureau | 2017 | 2 | 2 | 0 | 2000 | 2 | Bureau, cleaning | 0 |
| School | | , | + | | ' | | | | | | | | , 0 | |
| S7 | | | + | | | | | | | | | | | |
| Secondary Seco | | <u> </u> | | | ' | | | | | | | | ŭ | |
| Hercules Boiler Co., Ltd. | | <u> </u> | + | | | | | | | | | | | |
| Dongzheng Building Materials 10000 4 2 Company 2017 2 2 0 1700 2 Company, security 0 | | , | | | | | | | | | | • | Bank, odd jobs | |
| Mingchen Garden 20000 6 1 PMC 2017 2 2 0 2000 2 PMC, cleaning 0 | | • | + | | ļ. | | | | | | | | | |
| Figure F | | <u> </u> | | | 2 | | | | | | | | | |
| 63 3#, 4#, 6#, Dong'an Street 17333 2 1 Residential 2016 1 1 0 1800 1 ZDHCO, repair 0 64 Shangyuan Community 44564.77 4 2 PMC 2016 4 4 0 1700 1 PMC, cleaning 3 65 State-owned assets commission 2232 1 1 Commission 2016 1 1 0 2000 0 1 66 Price control bureau 4087 1 1 Commission 2016 1 1 0 2600 0 1 67 Zhangjiakou Hotel 12940 6 1 Hotel 2016 2 2 0 2000 2 Hotel, odd jobs 0 68 Municipal federation of trade unions 30466.6 10 1 Federation 2016 4 4 0 2200 4 Federation, cleaning 0 69 Suburban Cooperative | | | + | 6 | 1 | PMC | | 2 | | | | 2 | PMC, cleaning | 0 |
| Shangyuan Community | | Industrial Installation Co. | 2000 | <u> </u> | 1 | Company | | 1 | 1 | 0 | | 0 | | 1 |
| State-owned assets commission 2232 1 | | 3#, 4#, 6#, Dong'an Street | 17333 | 2 | 1 | Residential | 2016 | 1 | 1 | 0 | | 1 | | |
| Price control bureau | | Shangyuan Community | 44564.77 | 4 | 2 | PMC | 2016 | 4 | 4 | 0 | 1700 | 1 | PMC, cleaning | 3 |
| Company of the comp | | State-owned assets commission | 2232 | 1 | 1 | Commission | 2016 | 1 | 1 | 0 | 2000 | 0 | | 1 |
| 68 Municipal federation of trade unions 30466.6 10 1 Federation 2016 4 4 0 2200 4 Federation, cleaning 0 69 Suburban Cooperative Union 8371.94 2 1 Union 2016 1 1 0 1800 0 1 70 Century Trading Cooperative 26552.98 4 1 Cooperative 2016 2 2 0 2500 2 Cooperative, repair 0 71 8#, 9#, 10#, 11#, 13#, 14# Beicaiyuan 21990.27 4 1 Residential 2016 2 2 0 1600 2 ZDHCO, repair 0 72 Buildings 1#2# of Beijing railway division 11120.75 2 2 Railway 2016 2 2 0 2500 2 Railway, cleaning 0 73 Malu Street Kindergarten 7854.82 2 2 PMC 2016 2 2 0 1800 1 PMC, cleaning </td <td></td> <td>Price control bureau</td> <td>4087</td> <td>1</td> <td>1</td> <td>Commission</td> <td>2016</td> <td>1</td> <td>1</td> <td>0</td> <td>2600</td> <td>0</td> <td></td> <td>1</td> | | Price control bureau | 4087 | 1 | 1 | Commission | 2016 | 1 | 1 | 0 | 2600 | 0 | | 1 |
| 69 Suburban Cooperative Union 8371.94 2 1 Union 2016 1 1 0 1800 0 1 70 Century Trading Cooperative 26552.98 4 1 Cooperative 2016 2 2 0 2500 2 Cooperative, repair 0 71 8#, 9#, 10#, 11#, 13#, 14# Beicaiyuan 21990.27 4 1 Residential 2016 2 2 0 1600 2 ZDHCO, repair 0 72 Buildings 1#2# of Beijing railway division 11120.75 2 2 Railway 2016 2 2 0 2500 2 Railway, cleaning 0 73 Malu Street Kindergarten 7854.82 2 2 PMC 2016 2 2 0 1800 1 PMC, cleaning 1 74 7*, 8# Dong'an Street 6400 2 1 Residential 2016 1 1 0 2400 1 ZDHCO, repair 0 | 67 | Zhangjiakou Hotel | 12940 | 6 | 1 | Hotel | 2016 | 2 | 2 | 0 | 2000 | 2 | Hotel, odd jobs | 0 |
| 70 Century Trading Cooperative 26552.98 4 1 Cooperative 2016 2 2 0 2500 2 Cooperative, repair 0 71 8#, 9#, 10#, 11#, 13#, 14# Beicaiyuan 21990.27 4 1 Residential 2016 2 2 0 1600 2 ZDHCO, repair 0 72 Buildings 1#2# of Beijing railway division 11120.75 2 2 Railway 2016 2 2 0 2500 2 Railway, cleaning 0 73 Malu Street Kindergarten 7854.82 2 2 PMC 2016 2 2 0 1800 1 PMC, cleaning 1 74 7#, 8# Dong'an Street 6400 2 1 Residential 2016 1 1 0 2400 1 ZDHCO, repair 0 75 138# courtyard, Wuyi Street 11865 1 1 Brigade 2016 3 3 0 2000 1 Educatio | 68 | Municipal federation of trade unions | 30466.6 | 10 | 1 | Federation | 2016 | 4 | 4 | 0 | 2200 | 4 | Federation, cleaning | 0 |
| 71 8#, 9#, 10#, 11#, 13#, 14# Beicaiyuan 21990.27 4 1 Residential 2016 2 2 0 1600 2 ZDHCO, repair 0 72 Buildings 1#2# of Beijing railway division 11120.75 2 2 Railway 2016 2 2 0 2500 2 Railway, cleaning 0 73 Malu Street Kindergarten 7854.82 2 2 PMC 2016 2 2 0 1800 1 PMC, cleaning 1 74 7#, 8# Dong'an Street 6400 2 1 Residential 2016 1 1 0 2400 1 ZDHCO, repair 0 8uilding 9, Zhonghou Alley 3375 2 1 Brigade 2016 3 3 0 2000 1 Education committee, cleaning 2 75 138# courtyard, Wuyi Street 11865 1 1 Brigade 2016 3 3 0 2000 1 Education committee, cleani | 69 | Suburban Cooperative Union | 8371.94 | 2 | 1 | Union | 2016 | 1 | 1 | 0 | 1800 | 0 | | 1 |
| 72 Buildings 1#2# of Beijing railway division 11120.75 2 2 Railway 2016 2 2 0 2500 2 Railway, cleaning 0 73 Malu Street Kindergarten 7854.82 2 2 PMC 2016 2 2 0 1800 1 PMC, cleaning 1 74 7#, 8# Dong'an Street 6400 2 1 Residential 2016 1 1 0 2400 1 ZDHCO, repair 0 8 Building 9, Zhonghou Alley 3375 2 1 Brigade 2016 3 3 0 2000 1 Education committee, cleaning 2 cleaning 2 75 138# courtyard, Wuyi Street 11865 1 1 Brigade 2016 3 3 0 2000 1 Education committee, cleaning 2 76 Buildings 1-5, 18&22, Damalu 18000 4 1 Residential 2016 3 3 0 2000 | 70 | Century Trading Cooperative | 26552.98 | 4 | 1 | Cooperative | 2016 | 2 | 2 | 0 | 2500 | 2 | Cooperative, repair | 0 |
| 73 Malu Street Kindergarten 7854.82 2 2 PMC 2016 2 2 0 1800 1 PMC, cleaning 1 74 7#, 8# Dong'an Street 6400 2 1 Residential 2016 1 1 0 2400 1 ZDHCO, repair 0 Building 9, Zhonghou Alley 3375 2 1 Brigade 2016 3 3 0 2000 1 Education committee, cleaning 2 75 138# courtyard, Wuyi Street 11865 1 1 Brigade 2016 3 3 0 2000 1 Education committee, cleaning 2 76 Buildings 2&3&4, Zhonghou Alley 5260 1 1 Brigade 2016 1 1 0 1800 0 1 77 Buildings 1-5, 18&22, Damalu 18000 4 1 Residential 2016 3 3 0 2000 2 ZDHCO, repair 1 | 71 | 8#, 9#, 10#, 11#, 13#, 14# Beicaiyuan | 21990.27 | 4 | 1 | Residential | 2016 | 2 | 2 | 0 | 1600 | 2 | ZDHCO, repair | 0 |
| 74 7#, 8# Dong'an Street 6400 2 1 Residential 2016 1 1 0 2400 1 ZDHCO, repair 0 Building 9, Zhonghou Alley 3375 2 1 Brigade 2016 3 3 0 2000 1 Education committee, cleaning 2 75 Buildings 2&3&4, Zhonghou Alley 5260 1 1 Brigade 2016 1 1 0 1800 0 1 76 Buildings 2&3&4, Zhonghou Alley 5260 1 1 Brigade 2016 1 1 0 1800 0 1 77 Buildings 1-5, 18&22, Damalu 18000 4 1 Residential 2016 3 3 0 2000 2 ZDHCO, repair 1 | 72 | Buildings 1#2# of Beijing railway division | 11120.75 | 2 | 2 | Railway | 2016 | 2 | 2 | 0 | 2500 | 2 | Railway, cleaning | 0 |
| Building 9, Zhonghou Alley 3375 2 1 Brigade 2016 3 3 0 2000 1 Education committee, cleaning 2 2 2 3 3 3 0 2000 1 2 3 3 3 3 3 3 3 3 3 | 73 | Malu Street Kindergarten | 7854.82 | 2 | 2 | PMC | 2016 | 2 | 2 | 0 | 1800 | 1 | PMC, cleaning | 1 |
| To To To To To To To To | 74 | 7#, 8# Dong'an Street | 6400 | 2 | 1 | Residential | 2016 | 1 | 1 | 0 | 2400 | 1 | ZDHCO, repair | 0 |
| 75 138# courtyard, Wuyi Street 11865 1 1 Education committee 2016 3 3 0 2000 1 cleaning 2 76 Buildings 2&3&4, Zhonghou Alley 5260 1 1 Brigade 2016 1 1 0 1800 0 1 77 Buildings 1-5, 18&22, Damalu 18000 4 1 Residential 2016 3 3 0 2000 2 ZDHCO, repair 1 1 Company, odd jobs 1 | | Building 9, Zhonghou Alley | 3375 | 2 | 1 | Brigade | | | | | | | Education committee | |
| 77 Buildings 1-5, 18&22, Damalu 18000 4 1 Residential 2016 3 3 0 2000 2 ZDHCO, repair 1 | 75 | 138# courtyard, Wuyi Street | 11865 | 1 | 1 | | 2016 | 3 | 3 | 0 | 2000 | 1 | 1 | 2 |
| 77 Buildings 1-5, 18&22, Damalu 18000 4 1 Residential 2016 3 3 0 2000 2 ZDHCO, repair 1 | 76 | Buildings 2&3&4, Zhonghou Alley | 5260 | 1 | 1 | Brigade | 2016 | 1 | 1 | 0 | 1800 | 0 | | 1 |
| 1 Company odd jobs 1 | 77 | | 18000 | 4 | 1 | | 2016 | 3 | 3 | 0 | 2000 | 2 | ZDHCO, repair | 1 |
| | | | | | 4 | | | | | | | | · | |
| 78 Buildings 1-6 of bus company 13607.72 3 1 Company 2015 4 4 0 1600 | 78 | Buildings 1-6 of bus company | 13607.72 | 3 | 1 | Company | 2015 | 4 | 4 | 0 | 1600 | _ | | |
| Jianguo Hospital 15000 6 1 Hospital 2013 4 4 0 1000 2 Hospital, odd jobs 0 | | Jianguo Hospital | 15000 | 6 | 1 | Hospital | | | | | | 2 | Hospital, odd jobs | U |
| 79 Postal Hotel 8158.08 1 2 PMC 2016 2 2 0 2400 1 PMC, cleaning 1 | 79 | ů i | | 1 | 2 | • | 2016 | 2 | 2 | 0 | 2400 | 1 | PMC, cleaning | 1 |

| 80 | Residential building of Xinhua Bookstore | 10000 | 2 | 1 | Residential | 2017 | 3 | 3 | 0 | 2200 | 2 | ZDHCO, repair | 1 |
|-------|--|----------|-----|-----|--------------|------|-----|-----|---|------|-----|---------------------------|-----|
| 81 | Residential building of Industrial and Commercial Bank of China | 14500 | 4 | 1 | Bank | 2017 | 7 | 6 | 1 | 1900 | 4 | Bank, security, cleaning | 3 |
| 82 | Zhongnan Building Materials | 1200 | 0.2 | 1 | Factory | 2017 | 1 | 1 | 0 | 1800 | 0 | | 1 |
| 83 | Building 10 of Wuyi Road front-street | 8941 | 2 | 1 | Association | 2016 | 1 | 1 | 0 | 2000 | 0 | | 1 |
| 84 | Municipal people's congress | 20000 | 4 | 1 | Congress | 2017 | 2 | 2 | 0 | 2200 | 1 | Congress, odd jobs | 1 |
| 85 | TCM hospital and residential quarter | 20000 | 6 | 1 | Hospital | 2017 | 4 | 4 | 0 | 1700 | 1 | Hospital, odd jobs | 1 |
| | Department store | 20000 | 4 | 1 | Store | 2017 | 4 | 4 | U | 1700 | 2 | Store, cleaning | 0 |
| 86 | Dongsheng Hotel | 16250 | 6.5 | 1 | Hotel | 2015 | 2 | 2 | 0 | 1600 | 0 | | 2 |
| 87 | Zhangjiakou Hengtong Hotel Co., Ltd. | 2500 | 1 | 1 | Hotel | 2015 | 1 | 1 | 0 | 1800 | 0 | | 1 |
| 88 | Residential quarter of commercial bank | 12000 | 7 | 1 | Bank | 2017 | 2 | 2 | 0 | 2300 | 2 | Bank, cleaning | 0 |
| 89 | Binlihua Hotel | 6000 | 1 | 1 | Hotel | 2017 | 4 | 3 | 1 | 2200 | 2 | Hotel, odd jobs | 0 |
| 09 | China Construction Bank Zhangjiakou Branch | 15000 | 6 | 1 | Bank | 2017 | 4 | 3 | ı | 2200 | 2 | Bank, cleaning | 0 |
| 90 | Old Buildings 5&6, , Wuyi Road backstreet, and Buildings 70-74, Shengli North Road | 8100 | 1.5 | 1 | Residential | 2016 | 2 | 2 | 0 | 2000 | 2 | ZDHCO, repair | 0 |
| | Army residential quarter | 73160 | 5 | 6 | Army | | | | | | 5 | Bureau, odd jobs | 2 |
| | Zhangjiakou State Taxation Bureau | 10000 | 4 | 1 | Bureau | | | | | | 5 | Bureau, odd jobs | ۷ |
| 91 | Residential quarter of municipal CPC committee | 18656.53 | 4 | 1 | Committee | 2017 | 11 | 10 | 1 | 2000 | 2 | Committee, odd jobs | 2 |
| | State taxation bureau and residential quarter | 20755.31 | 4 | 1 | Bureau | | | | | | | | |
| 92 | Gas station | 4200 | 0.5 | 3 | Army | 2017 | 6 | 6 | 0 | 1800 | 2 | Army, cleaning | 4 |
| | Army residential quarter | 21000 | 1.5 | 2 | Ailily | 2017 | U | U | 0 | 1000 | | Airily, cleaning | 4 |
| 93 | Luxing Ecology Co., Ltd. | 15000 | 6 | 1 | Company | 2017 | 2 | 2 | 0 | 2200 | 0 | | 2 |
| 94 | Central blood station | 6775.68 | 2 | 1 | Station | 2017 | 1 | 1 | 0 | 2600 | 0 | | 1 |
| 95 | Residential quarter of traffic police | 17250 | 2 | 1 | Trade police | 2015 | 3 | 3 | 0 | 2100 | 3 | Trade police, cleaning | 0 |
| 96 | Residential building of utility administration bureau | 1500 | 1 | 1 | Bureau | 2015 | 1 | 1 | 0 | 2200 | 0 | | 1 |
| 97 | Residential building of pharmaceutical company | 11907.07 | 2 | 1 | Company | 2017 | 2 | 2 | 0 | 1600 | 2 | Company, odd jobs | 0 |
| 98 | Qiaodong No.3 Kindergarten | 7500 | 2 | 1 | PMC | 2017 | 2 | 2 | 0 | 1600 | 2 | PMC, cleaning | 0 |
| 99 | China Coal Machinery Co., Ltd. | 15000 | 6 | 1 | Company | 2017 | 2 | 2 | 0 | 1700 | 1 | Company, cleaning | 1 |
| Total | | 2587229 | | 158 | | | 259 | 254 | 5 | | 149 | | 110 |

Note: PMC = property management company

6.4 Resettlement of affected workers

ZDHCO, boiler room operators and the Qiaodong District Government have decided to resettle laid-off boiler workers by the following means through consultation with them:

- 1. After the end of heating year 2014-2015, 110 will leave voluntarily, in which 59 have found new jobs on construction sites, 23 non-local ones plan to find jobs elsewhere, and 28 younger ones expect training on practical skills, such as cooking, pastry production and car care.
- 2. 149 boiler workers expect to do their current jobs or similar jobs. At the operation stage, the Subproject will generate a good number of repair and maintenance jobs. ZDHCO has decided to employ existing boiler workers on a voluntary basis. Boiler workers at boiler rooms owned by former employers or property management companies may do such jobs as cleaner, security guard and handyman, and may deal with pipeline maintenance and troubleshooting in the heating period. Boiler workers at boiler rooms owned by community committees will be employed by ZDHCO after training.
- 3. ZDHCO will offer skills training to staying and leaving boiler workers together with the Qiaodong District Labor and Social Security Bureau for free to prepare them for new jobs.

Through these measures, the owner will ensure that all involuntarily unemployed boiler workers be reemployed and their wages are not reduced.

7. Resettlement costs

The Subproject's resettlement costs include excavation repair fees, ditch filling fees, road occupation fees, skills and reemployment training costs for boiler workers, and external monitoring costs, totaling 50.7134 million yuan. Since the Subproject is a municipal project, it will be exempted from excavation repair fees, ditch filling fees and road occupation fees.

| Item | Amount (0,000 yuan) | Remarks |
|-----------------------------|---------------------|---|
| Excavation repair fees | 2728 | Exempt |
| Ditch filling fees | 1408.9 | Exempt |
| Road occupation fees | 911.44 | Exempt |
| Skills training costs | 3 | Borne by ZDHCO |
| Reemployment training costs | 5 | Borne by the Qiaodong District Labor and Social Security Bureau |
| External monitoring costs | 15 | |
| Total | 5071.34 | |

Table 7-1 Resettlement costs

8. Public participation and grievance redress

From March to November 2014, the staff of ZDHCO conducted extensive consultation with local officials and residents while conducting the impact survey to collect their comments and suggestions on the Subproject and the RAP, and communicate the grievance redress procedure.

The grievance redress procedure of the Subproject is as follows:

Stage 1: If any AP is dissatisfied with the RAP or its implementation, he/she may file an oral or written appeal with ZDHCO or the community/village committee. In case of an oral appeal, the community/village committee should prepare written records. A disposition should be made within one week.

Stage 2: If the appellant is dissatisfied with the disposition of Stage 1, he/she may file an appeal with the sub-district office, which should make a disposition within two weeks.

Stage 3: If the appellant is dissatisfied with the disposition of Stage 2, he/she may apply for administrative arbitration with the Qiaodong District Housing and Urban-Rural Development Bureau, which should make an award within ten days.

Stage 4: If the appellant is dissatisfied with the arbitration award, he/she may bring a suit in a

civil court in accordance with the Civil Procedure Law.

9. Organizational setup

The Foreign Loan Management Center, Hebei Provincial Finance Department is the province-level leading organization of the Subproject, the Qiaodong District Government the executing agency, and ZDHCO the implementing agency.

The Zhangjiakou Municipal Government has established the subproject leading group, which is headed by the deputy county head in charge, and composed of chief leaders of the county departments concerned, including finance, land and resources, audit, price control, etc. The group is responsible for the unified leadership of the Subproject, coordinating the county departments concerned, and solving major issues in subproject preparation and implementation.

The implementing agency ZDHCO is responsible for: 1) organizing subproject preparation and design; 2) organizing subproject implementation, including bidding and contracting; 3) supervising construction and equipment installation, and conducting on-site inspection; 4) organizing and supervising the implementation of the Environmental Management Plan and the RAP; 5) raising counterpart funds and repaying the Bank loan; and 6) operating and maintaining facilities constructed under the Subproject.

10. M&E

The subproject owner will appoint an independent M&E agency to conduct external M&E on the implementation of the RAP.

The external M&E agency will conduct regular M&E on LA compensation and resettlement to see if the resettlement objectives are met, give suggestions on the production and livelihood restoration of the APs, and provide a feedback channel.

The external M&E agency will submit two M&E reports to the Bank annually at the construction stage (2015-2017), and a summary report after the completion of construction and construction.

Appendix 1: Due Diligence Report of Zhangjiakou Power Plant

1. Overview of Zhangjiakou Power Plant

Zhangjiakou Power Plant is located west of Zhujiazhuang Village, Hezixi Xiang, Xuanhua District, in close vicinity to the Jingbao and Jingzhang Railways. It has eight 300MW steam turbine generator units with a total capacity of 2,400MW.

The 4x300MW straight condensing units of Phase 1 were completed and put into operation in 1995, and the 4x300MW straight condensing units of Phase 2 in 2001. The plant is wholly owned by Datang International Power Generation Co., Ltd. According to the heating plan of Zhangjiakou City, the plant will be the main heating source of the city. Two 300MW units (5# and 6#) have been improved to meet the heating demand of a heating area of 12 million m².

2. Land occupied for Zhangjiakou Power Plant

Zhangjiakou Power Plant has a floor area of 216 mu, and its land use permit was obtained in 1991.



Figure 6: Land use permit of Zhangjiakou Power Plant

Appendix 2: Due Diligence Report of ZDHCO

1. Overview of ZDHCO

ZDHCO, founded in January 2009, is a solely state-funded enterprise specializing in central urban heating, construction, repair, maintenance, correction protection, heat insulation, consulting, etc. Phase 1 of its central heating project broke ground in April 2009 and was put into operation in November 2009.

Currently, ZDHCO has four 64MW boilers, primary pipelines of 31.48 kilometers and 43 community heat exchange stations, serving a heating area of 34 km² and a population of 249,600, and has 6 functional departments and a workforce of 83, including 5 with senior titles, two with medium titles and 23 specialized technicians.

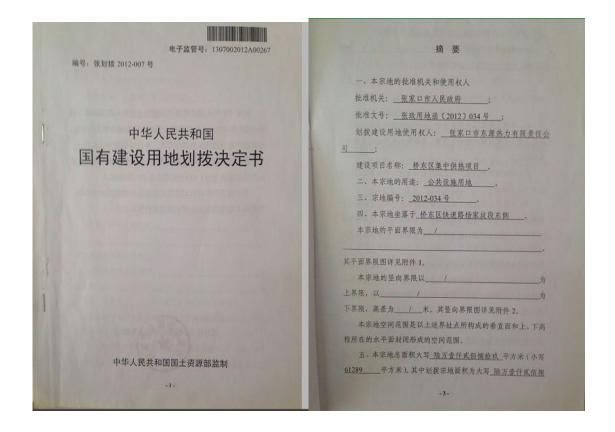
2. Land occupied for ZDHCO

ZDHCO is located on public facility land (allocated by the government) on Yangjiafen East Road in Qiaodong District, with a floor area of 91.93 mu.

In December 2009, ZDHCO obtained the construction land planning permit. In June 2012, the

public facility land of ZDHCO was approved by the Zhangjiakou Municipal Government with Document ZMGLU [2012] No.034, which issued the Decision to Allocate State-owned Construction Land (No.2012-007) later in 2012.

The land occupied by ZDHCO includes two parts, in which the land occupied for the coal-fired boiler room (24.74 mu) was allocated by the Qiaodong District Government in November 2010.



| (小写 | 六、本宗地划拨价数为大写/ | 十二、政府为公共事业需要而敷设的各种管道与管线进出 |
|---|--|------------------------------|
| 一般规定 七、本宗土地属国有建设用地。土地使用者拥有划接建设用 地使用权、宗地范围内的地下资源、埋藏物和市政公用设施均不 属划接范围。 八、划接建设用地使用权经依法登记后受法律保护,任何单位和个人不得侵占。 九、划接建设用地使用权经依法登记后受法律保护,任何单位和个人不得侵占。 九、划接建设用地使用权人必须按照本决定书规定的用途和使用条件开发建设中加使用土地。需改变土地用途的,必须持本决定书向市、县国土资源行政主管部门提出申请,报有批准权的人民政府批准。 十五、本宗土地只照用于建设 桥东区集中供热项目 项目划 对建设用地使用权人应当持本 表现 一个人不得使自 对 | (小写/ 万元)。 | 通过、穿越本宗土地,划拔建设用地使用权人应当提供便利。 |
| 一般规定 七、本案土地属国有建设用地。土地使用者拥有划接建设用 地使用权、索地范围内的地下资源、埋藏物和市政公用设施均不 属划接范围。 八、划接建设用地使用权经依法登记后受法律保护,任何单位和个人不得侵占。 九、划接建设用地使用权从必须按照本决定书规定的用途和 使用条件开发建设和使用土地。需改变土地用途的,必须持本决定书向市。县国土资源行政主管部门提出申请,报有批准权的人 民政府批准。 十、本决定书项下的划按建设用地使用权未经批准不得擅自 转让、出租。需转让、出租的,划拨建设用地使用权人应当持本决定书奇市。县国土资源行政主管部门提出申请,报有批准权的人 转让、出租。需转让、出租的,划拨建设用地使用权人应当持本决定书等资料向市。县国土资源行政主管部门提出申请,报有批准权的人。 "有效的人民政府批准。 十五、本案土地只限用于建设 标志区集中供热项目 项目划接建设用地使用权人在案地范围内新建建筑物、构筑物 其附属设施、应当符合土地使用标准的规定和市、县城市规划 管部门、项目建设主管部门确定的家地规划、建设条件。案地 机 建设条件 课见附件三。其中: 土体建筑物性质 型体 型 | | 十三, 国土资源行政主管部门有权对本宗土地的使用情况; |
| 十四、有下列情形之一的、整原批准用地的人民政府批准市、基人民政府可以收回土地使用权: 地使用权、密地范围内的地下资源、埋藏物和市政公用设施均不 属划数范围。 八、划拨建设用地使用权经依法登记后受法律保护、任何单位和个人不得侵占。 九、划数建设用地使用权人必须按照本决定等规定的用途和使用条件开发建设和使用土地。需改变土地用途的,必须持本决定书向市。县国土资源行政主管部门提出申请,报有批准权的人民政府批准。 十、本决定书项下的划级建设用地使用权人应当持本决定书等资料向市、县国土资源行政主管部门提出申请,报有批准权的人。 转让、出租。需转让、出租的,划级建设用地使用权人应当持本决定书等资料向市、县国土资源行政主管部门提出申请,报有批准权的人。 特别规定 十五、本宗土地只限用于建设,标志区集中供热项目项目划级建设用地使用权人在宗地范围内新建建筑物、构筑物、排除品、监督、新建设、出租的,划级建设用地使用权人应当持本决定书等资料向市、县国土资源行政主管部门提出申请,报有批准权的人民政府批准。 十一、在本宗地使用权人对本宗地范围内的建筑物、构筑物及设备,应当符合土地使用标准的规定和市、县域市规划、建设条件详见附外三、其中: 主体建筑物性质、水久性建筑 村品建筑物性质、水久性建筑 村品建筑物性质、配套设施 及建筑面积 / 平方米; | fi0.40 ⇔ | 行监督检查,划裁建设用地使用权人应当予以配合。 |
| 地使用权、宗地范围内的地下资源、埋藏物和市政公用设施均不 届划拔范围。 八、划拔建设用地使用权经依法登记后受法律保护,任何单位和个人不得侵占。 九、划拔建设用地使用权人必须按照本决定书规定的用途和 使用条件开发建设和使用土地。需改变土地用途的,必须持本决定书向市。县国土资源行政主管部门提出申请,报有批准权的人 民政府批准。 十、本决定书项下的划拔建设用地使用权人应当持本决定书等资料向市。县国土资源行政主管部门提出申请,报有批准权的人 转让、出租。需转让、出租的,划拨建设用地使用权人应当持本决定书等资料向市。县国土资源行政主管部门提出申请,报有批准权的人。 特别,企业分子。 本来土地只限用于建设,标本区集中供热项目项目划按建设用地使用权人在完地范围内新建建筑物、构筑物、排化、出租。需转让、出租的,划拨建设用地使用权人应当持本决定书等资料向市。县国土资源行政主管部门提出申请,报有批准行政治、企业分子、实地使用的人民政府批准。 十一、在本宗地使用过程中,政府保留对本宗地的规划调整、划、建设条件详见附件三、其中:主体建筑物性质、水久性建筑 附属建筑物性质、水久性建筑 附属建筑物性质、配套设施 及建筑面积。 上体建筑物性质、配套设施 及建筑面积。 上体建筑物性质、配套设施 及建筑面积。 上体建筑物性质、配套设施 及建筑面积。 上本体建筑物性质、配套设施 及建筑物性质、配套设施 及建筑物性质、配套设施 及建筑面积。 上本体理机构设 及一种设施,对设施设施,对设施设施设施设施设施设施设施设施设施设施设施设施设施设施设施 | 和双处。 | 十四、有下列情形之一的,经原批准用地的人民政府批准 |
| 属划数范围。 八、划拔建设用地使用权经依法登记后受法律保护,任何单位和个人不得侵占。 九、划拔建设用地使用权从必须按照本决定书规定的用途和 使用条件开发建设和使用土地。需改变土地用途的,必须持本决定书向市、县国土资源行政主管部门提出申请,报有批准权的人 民政府批准。 十、本决定书项下的划拔建设用地使用权人应当持本决定书等资料向市、县国土资源行政主管部门提出申请,报有批准权的人。 转让、出租。需转让、出租的,划拨建设用地使用权人应当持本决定书等资料向市、县国土资源行政主管部门提出申请,报有批准权的人。 本次定书项下的划拔建设用地使用权人应当持本决定书等资料向市、县国土资源行政主管部门提出申请,报有批准权的人民政府批准。 十一、在本宗地使用过程中,政府保留对本宗地的规划调整、规划、建设条件详见附件三。其中: 主体建筑物性质量、数文性建筑 村 | 七、本宗土地属固有建设用地、土地使用者拥有划接建设用 | 市、县人民政府可以收回土地使用权: |
| 八、划接建设用地使用权经依法登记后受法律保护、任何单位和个人不得侵占。 九、划接建设用地使用权人必须按照本决定书规定的用途和使用条件开发建设和使用土地。需改变土地用途的,必须持本决定书向市、县国土资源行政主管部门提出申请,报有批准权的人民政府批准。 十、本决定书项下的划接建设用地使用权未经批准不得擅自划接建设用地使用权人应当持本决定书等资料向市、县国土资源行政主管部门提出申请,报有批准权的人应当持本决定书等资料向市、县国土资源行政主管部门提出申请,报有批准权,在宗地范围内新建建筑物、构筑物、非阴层设施、应当符合土地使用标准的规定和市、县域市规划、建设条件深见附件三。其中: 十一、在本宗地使用过程中,政府保留对本宗地的规划调整权,线线建设用地使用权人对本宗地范围内的建筑物、构筑物及设备,企业设备性级用权人对本宗地范围内的建筑物、构筑物及及条件深见附件三。其中: 主体建筑物性质、水久性建筑附属建筑物性质、水久性建筑附属建筑物性质、配套设施及建筑面积。 | 地使用权、家地范围内的地下资源、埋藏物和市政公用设施均不 | 1. 为公共利益需要使用土地的; |
| 位和个人不得侵占。 | 从 划绞范围。 | 2. 为实施城市规划进行旧城区改建,需要调整使用土地的 |
| 九、划楼建设用地使用权人必须按照本决定书规定的用途和 使用条件开发建设和使用土地。需改变土地用途的,必须持本决 定书向市、县国土资源行政主管部门提出申请。报有批准权的人 民政府批准。 十、本决定书项下的划按建设用地使用权未经批准不得擅自 转让、出租。需转让、出租的,划拨建设用地使用权人应当持本 决定书等资料向市、县国土资源行政主管部门提出申请、报有数 准权的人民政府批准。 十一、在本宗地使用过程中,政府保留对本宗地的规划调整 权、划按建设用地使用权人对本宗地范围内的建筑物、构筑物及 大型器的类型设置和地使用权人对本宗地范围内的建筑物、构筑物及 大型器的类型设置和地使用权人对本宗地范围内的建筑物、构筑物及 及及条件深见附件三。其中: 主体建筑物性质型及交性皮 | 八. 划拔建设用地使用权经依法登记后受法律保护, 任何草 | 3. 自批准的幼工开发建设日期起,逾期两年未动工开发员 |
| 使用条件开发建设和使用土地。需改变土地用途的,必须持本决 定书向市,县国土资源行政主管部门提出申请,报有批准权的人 | 位和个人不得侵占。 | 装的; |
| 定书向市、县国土资源行政主管部门提出申请,报有批准权的人 民政府批准。 十、本决定书项下的划拔建设用地使用权未经批准不得擅自 特让、出租。需转让、出租的,划拨建设用地使用权人应当持本 决定书等资料向市、县国土资源行政主管部门提出申请,报有数 准权的人民政府批准。 十一、在本宗地使用过程中,政府保留对本宗地的规划调整 权、划拔建设用地使用权人对本宗地范围内的建筑物、构筑物态 技术展别。此当在影响。从各位人政路强整点的自 及建筑面积。一个一个工作,是是是是一个一个工作,是是是是一个一个工作,是是是是一个一个工作。如此,是是是一个工作,是是是是一个工作,是是是是一个工作。一个工作,是是是是一个工作,是是是是一个工作,是是是是一个工作。一个工作,是是是是一个工作,是是是是是一个工作,是是是是一个工作,是是是是一个工作,是是是是一个工作,是是是是是一个工作,是是是是是一个工作,是是是一个工作,是是是是一个工作,是是是是一个工作,是是是是一个工作,是是是是一个工作,是是是是一个工作,是是是是一个工作,是是是一个工作,是是是一个工作,是是是一个工作,是是一个工作,是是一个工作,是是一个工作,是是一个工作,是是一个工作,是是一个工作,是是一个工作,不可以就是一个工作,是一个工作,是一个工作,是一个工作,是一个工作,是一个工作,是一个工作,是一个工作,是一个工作,是一个工作,是一个工作,是一个工作,是一个工作,我们们可以在一个工作,是一个工作,是一个工作,是一个工作,就不是一个工作,是一个工作,就是一个工作,是一个工作,但可以工作,也可以工作,是一个工作,但一个工作,是一个工作,是一个工作,是一个工作,是一个工作,是一个工作,是一个工作,是一个工作,工作,是一个工作,是一个工作,但一个工作,也可以工作,也可以工作,也可以工作,也可以工作,也可以工作,是一个工作,也可以一个一个工作,也可以工作,也可以工作,也可以工作,也可以工作,也可以工作,也可以工作,可以工作,也可以工作,也可以工作,也可以工作,也可以工作,也可以工作,也可以工作,也可以工作,也可以工作,也可以工作,也可以工作,也可以工作,也可以工作,可以工作,也可以工 | 九、划拔建设用地使用权人必须按照本决定书规定的用途和 | 4. 因用地单位撤销、迁移等原因、停止使用土地的。 |
| 及书同市、县国主黄源行政王智部门提出申请,报有批准权的人 民政府批准。 十、本决定书项下的划拔建设用地使用权未经批准不得擅自 转让。出租。需转让、出租的,划拔建设用地使用权人应当持本 决定书等资料向市、县国土资源行政主管部门提出申请,报有致 准权的人民政府批准。 十一、在本宗地使用过程中、政府保留对本宗地的规划调整 权、划拔建设用地使用权人对本宗地范围内的建筑物、构筑物及 和 对 | 使用条件开发建设和使用土地。需改变土地用途的,必须持本决 | |
| 十、本块定书项下的划拔建设用地使用权未经批准不得擅自 划波建设用地使用权人在宗地范围内新建建筑物、构筑物 转让、出租。需转让、出租的,划拨建设用地使用权人应当持本 共阳晨设施、应当符合土地使用标准的规定和市、县城市规划 管部门、项目建设主管部门确定的宗地规划、建设条件。宗地 难权的人民政府批准。 | 定书向市,县国土资源行政主管部门提出申请,报有批准权的人 | 特别规定 |
| 转让、出租。需转让、出租的,划拨建设用地使用权人应当转本 决定书等资料向市、县国土资源行政主管部门提出申请、报有款 准权的人民政府就准。 十一、在本宗地使用过程中,政府保留对本宗地的规划调整 权、划拨建设用地使用权人对本宗地范围内的建筑物、构筑物及 计划建设会性。即此 企业的 及知识不同的建筑物、构筑物及 以 数拨建设用地使用权人对本宗地范围内的建筑物、构筑物及 | 民政府批准. | 十五、本宗土地只限用于建设 桥东区集中供热项目 项目 |
| 東定书等資料向市、县国土資源行政主管部门提出申请、报有報 准权的人民政府批准。 十一、在本宗地使用过程中、政府保留对本宗地的規划调整 权、划技建设用地使用权人对本宗地范围内的建筑物、构筑物な サガ原的安地级用水人对本宗地范围内的建筑物、构筑物な 及 対策建设用地使用权人对本宗地范围内的建筑物、构筑物な 及 及 第二十二十二十二十二十二十二十二十二十二十二十二十二十二十二十二十二十二十二十 | 十、本决定书项下的划拨建设用地使用权未经批准不得擅自 | 划按建设用地使用权人在宗地范围内新建建筑物、构筑物。 |
| 准权的人民政府批准。 十一、在本宗地使用过程中、政府保留对本宗地的规划调整 权、划按建设用地使用权人对本宗地范围内的建筑物、构筑推定 数 | 转让、出租、需转让、出租的,划拨建设用地使用权人应当持本 | 其附属设施、应当符合土地使用标准的规定和市、县城市规划: |
| 十一、在本宗地使用过程中,政府保留对本宗地的规划调整 权、划按建设用地使用权人对本宗地范围内的建筑物、构筑物态 及 发现,制度是筑物性质型态设施 以 发现, | 决定书等资料向市、县国土资源行政主管部门提出申请、报有数 | 管部门、项目建设主管部门确定的亲地规划、建设条件。穿地! |
| 权、划坡建设用地使用权人对本宗地范围内的建筑物、构筑物及 支 | 准权的人民政府批准。 | 划,建设条件详见附件三、其中: |
| 权,划按建设用地使用权人对本宗地范围内的建筑物、构筑整态 附属建筑物性质 配套设施 计图显光设施 | 十一,在本宗地使用过程中,政府保留对本宗地的规划调整 | 主体建筑物性质_永久性建筑 |
| 世界周辺是进行连续 和建 香油盐 从带位人站站高级前的 | 权 与按键设用他使用权人对本宗被范围为的建贫物、构筑 ^{技术} | 附属建筑物性质_配套设施 |
| | 其附属设施进行改建、翻建、重建的,必须符合政府调整后 ^{前面} 娱 | 总建筑面积 |

张家口市桥东区人民政府

东政字[2010]165号

张家口市桥东区人民政府 关于对张家口市东源热力有限责任公司 集中供热热源地土地申请的批复

张家口市东源热力有限责任公司:

你公司报来的"关于集中供热热源地土地的申请"(东源字 [2010]60号)已收悉。经区政府研究,同意把原二轻仓库地 块上的24.74亩土地(快速路以东区域)划拨给你公司,用于 新建集中供热热源地。请你公司做好与张家口市桥东区国土资 源分局的沟通协调工作。按照规定程序办理有关手续。

北复

二0-0年十一月一日

主题词: 集中供熱 土地

抄 选: 张家口市桥东区国土资源分局

张家口市桥东区人民政府办公室

2010年11月1日印

(共印8份)

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Appendix 3: Due Diligence Report of the Heat Exchange Station

The land to be used for the heat exchange station under the Subproject formerly belonged to China Unicom Zhangjiakou Branch (Unicom Zhangjiakou for short). It was resolved at a head's executive meeting of the Qiaodong District Government in August 2012 that Unicom Zhangjiakou would transfer the right to use 1,046.775 m² (1.57 mu) of land in its residential quarter to ZDHCO for the construction of a heat exchange station for an amount of 407,100 yuan, which would be used to partly offset pipeline reconstruction costs for the residential quarter of Unicom Zhangjiakou. In December 2014, ZDHCO decided to use this plot for the construction of a heat exchange station.

Since this plot is insufficient for the heat exchange station (2.84 mu in total, with a gap of 1.27 mu), the Qiaodong District Government decided to make up the gap with unused state-owned construction land. See Appendix 4: Relevant Documents (2).

Appendix 4: Relevant Documents

1. Notice of the Zhangjiakou Municipal Utility Administration Bureau on Policies for Urban Central Heating

张家口市人民政府办 政办字[2010]72号 张家口市人民政府办公室 关于转发市市政公用事业管理局等三部门 《关于实施城市集中供热的有关政策》的通知 各区人民政府,高新区管委会,产业集聚区管委会,市政府有关部 门: 市市政公用事业管理局、市财政局、市物价局《关于实施城市 集中供热的有关政策》已经市政府研究同意,现予转发,请认真组 织实施。

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张家口市市政公用事业管理局 张家口市财政局 张家口市物价局 关于实施城市集中供热的有关政策

为改善城市环境,提高居民生活质量,加快发展城市集中供 热,规范城市集中供热建设行为,实现城市供热持续健康发展,特 制定如下政策规定。

一、集中供热入网范围和要求

- (一)按照集中供热规划,各集中供热企业供热管网覆盖范围内的采暖建筑,均应并入集中供热管网。具体的入网计划和时间表按照政府统一安排由各供热企业制定并实施。入网的业主和物业公司要积极支持,移交必要的资料并配合施工,任何单位和个人不得阻挠。
- (二)城市规划区内新建供热热源必须经供热主管部门审查 批准。新建项目必须并入集中供热管网实行集中供热,严禁单独 建设燃煤锅炉房供热。项目规划时必须预留热力站建设用地,其 供热工程与主体工程同时设计、同时建设、同时验收投入使用。项 目规划设计阶段,应当邀请供热企业参加或征求供热企业意见。 供热工程建设必须按照供热企业统一的技术标准和设计参数进行 设计施工。工程竣工经供热企业验收合格后方可联网供热。

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- (三)接入集中供热管网的新建建筑应达到民用建筑节能标准。供热系统必须安装热计量装置和室内温度调控装置。居民住宅建筑必须达到分户控制要求。
- (四)既有建筑并入集中供热管网后,按照供热规划对具备条件的原有锅炉房改建为热力站,锅炉房用地和地上建筑由业主或产权单位无偿提供给热力公司管理和使用。规划不做为热力站的锅炉房一律拆除,改建为绿地或小区公用配套设施。
- (五)锅炉房改建或拆除后,原有锅炉房的锅炉及附属设备资产由产权方自行处置,原锅炉房工作人员由原单位自行安排,陈欠水、电费由原单位负责结清,债权债务由原单位继续迫偿。
- (六)未实现分户控制的居住建筑应首先进行分户改造,改造 完成后方可申请入网。
- (七)达到建筑节能标准的既有建筑必须同时安装热计量装置,新建建筑和既有节能建筑全部实行计量收费。
 - 二、供热一次管网及热力站建设与维护
- (一)集中供热项目一次管网及热力站建设由供热企业负责, 建设投资可采取向用热方收取供热管网建设费的方式筹集。
- (二)供热管网建设费由集中供热企业统一收取。收费标准:
 - 1、新建居民建筑70元/平方米(建筑面积,下同);
 - 2、新建非居民建筑90元/平方米;
 - 3、既有非居民建筑30元/平方米(房屋产权证建筑面积);
 - 4、既有居民建筑不再收取集中供热管网建设费。

- (三)产业集聚区供热管网建设费与市区执行统一标准。
- (四)新建建筑供热管网建设费由房屋建设单位或开发商一次性缴纳,计入建房成本,不得在房价以外加收供热管网建设费。 供热管网建设费计费面积以建设项目审批部门批准的全部采暖房 屋建筑面积为准,工程验收后可按实际竣工的建筑面积结算,实行 多退少补。
 - (五) 既有非居民建筑供热管网建设费由产权方一次性缴纳。
- (六)原锅炉房不能利用须异地建设热力站的,产权方(用户) 应提供热力站建设用地。
 - (七)供热一次管网及热力站由供热企业负责维护和管理。

三、供热二次网建设与维护

- (一)新建项目的二次网(庭院管网,下同)供热设施按照供热 企业统一的技术标准由建设单位或开发商负责实施,也可委托供 热企业代建,工程费用按照现行河北省预算定额结算,列入建房成 本。
- (二)既有非居民建筑二次网由产权单位负责改造,也可委托 供热企业代为改造,工程费用按照现行河北省预算定额结算。
- (三)既有居民建筑二次网改造由供热企业统一实施,工程费用按照现行河北省预算定额结算,按建筑面积向用户分摊。
- (四)二次网连接线(小区红线外管线)由供热企业统一建设, 并负责维护管理。
 - (五)非居民建筑二次网维护管理由产权单位负责,也可委托

供热企业代为维护管理,维修费用按实际发生向产权方收取。

(六)居民建筑二次网维护管理由小区物业公司负责,实行有 偿服务,按实际发生维修费用向居民收取。

四、建筑内供热设施建设与维护和分户改造

- (一)新建项目的建筑内供热设施由房屋建设单位或开发商与主体建筑同步建设,投资列入房屋建造成本。
- (二)楼梯间供热设施,由供热企业负责统一维护管理,实行有偿服务。
- (三)用户室内供热设施由用户自行维护。委托物业公司或 供热企业维修的,实行有偿服务。
- (四)既有居民住宅分户改造工程以小区为单位统一实施,其 中户外共有(楼梯间)供热设施由供热企业统一建设,工程费用按 现行河北省预算定额结算,由供热企业向用户据实收取,可按户 (或建筑面积)合理分摊。
- (五)用户室内供热设施改造由用户自行委托有相应资格的专业施工队伍完成,费用由用户承担,供热企业提供技术支持并负责分户验收,未通过验收的不予并网供热。

主程母:公用 集中保热 政管 面侧 液浆口有人及皮肤力会至

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2. Minutes of the head's executive meeting of the Qiaodong District Government (QDG [2012] No.11)

张家口市桥东区人民政府

区长办公会议纪要

东政纪[2012]11号

张家口市桥东区人民政府 关于联通小区换热站建设及管网改造事宜的 区长办公会议纪要

时 间: 2012年8月20日

地 点: 区政府六楼会议室

主持人: 高军

参加人员: 冀学飞、韩峰伟(区政府办), 杨军(胜利路办事处), 王志刚、张作为、王世军、李刚(东源热力公司), 温建华、陈雁、耿建国、王世飞(中国联通张家口分公司)

会议内容: 为改善中国联合网络通信有限公司张家口分公司(以下简称联通公司)小区南、北苑集中供热质量、按照全市集中供热相关文件规定、会议就联通小区换热站建设及管网改造事宜进行专题研究。会议首先听取了张家口市东源热力有限责任公司(以下简称东源公司)及联通公司就该小区供热情况的汇报、会议议定:

- 一、根据张政办[2010]第 72 号文件规定,由联通公司 委托东源公司对联通南苑、北苑及5号院小区内的供热系统 进行分户及庭院管网改造。改造费用由联通公司和业主共同 承担。具体承担方式为:居民负担室内管网改造费用 25 元/ 平方米;联通公司负责楼道管网及庭院管网的改造费用(其 中南、北苑及5号院楼梯问公共管道改造费用 491000 元, 该费用联通公司向东源热力公司缴纳后,由东源热力于 2012 年采暖季前改造完成;庭院管网改造费用待联通公司宣化大 道办公楼接入集中供热时按照工程预算向东源公司据实缴 纳,交费后由东源公司负责实施改造)。
- 二、联通公司依据张家口市桥东区人民政府东政字 [2011] 70 号文件要求,将位于七里山渠以东、杨家坟北路 5 号院 3 号楼以南、杨家坟北路以西,5 号院锅炉房南墙以北,面积共计约 1046.775 平方米地块所有权有偿转让给东源公司用于联通公司小区换热站新建。该地块属三级工业用地,地价每亩 189300 元至 259300 元,按照最高地价补偿费用约为 407101 元(其地理位置详见《场地位置示意图》),抵顶南、北苑家属院及杨家坟 5 号院楼梯间公共管网改造费用 491000 元。联通公司小区新建换热站建成后,东源公司将原联通小区南苑换热站临时彩板用房无偿移交联通公司使用。
- 三、上述土地转让事宜由联避公司负责向其上级主管单位申请,批准后积极协助东源公司办理该地块土地产权灭迹

移交过户手续。如上述土地无法转让给东源公司,按照张政办 [2010] 第 72 号文件规定,东源公司无偿占用上述土地及地上锅炉房并改建综合换热站,联通公司积极协助东源公司取得该地块改建换热站的规划开工手续,用于抵顶南、北苑家属院及杨家坟 5 号院楼梯间公共管网分户改造费用 49.1 万元。

四、东源公司要按照相关规范要求,确保改造工程质量和进度。联通公司和东源公司在施工过程中要协同配合,认 真做好居民工作,积极化解矛盾,保证工程的正常进行。

会议指出,与会各方会后要认真落实会议议定事项,积 极推进改造工程和换热站改建相关工作,确保联通小区南、 北苑居民冬季正常供热。

主题词:集中供热 联通小区 会议纪要 张家口市桥东区人民政府办公室 2012年8月20日印 (共印8份)