

INDICATIVE SUBPROJECTS

No	Applicant Name	Sector Description	Project Name	Eligible ADB Financing (Euro million)	Project Cost (Euro million)	Project Site
1	CECEP Green Carbon Environmental Protection Company	Organic Waste to Biogas & Organic Fertilizer	Advanced Biogas and Organic Fertilizer Project	14.65	17.47	Henan
2	CECEP Green Carbon (Kailu) Environmental Protection Co., Ltd.	Organic Waste Recycling Utilization	Organic Waste Recycling Utilization Project	14.30	20.43	Inner Mongolia
3	CECEP Green Carbon (Renxian) Environmental Protection Co., Ltd.	Organic Waste Comprehensive Utilization	Organic Waste Comprehensive Utilization Project	13.67	19.53	Hebei
4	Ever Source Science & Technology Development Group Co., Ltd.	Shallow-ground Geothermal	Beijing Longwuquan Ground Source Heat Pump Project	5.47	7.81	Beijing
5			Beijing Liuminying Ground Source Heat Pump Project	0.73	1.04	Beijing
6			Hebei Yihepu Ground Source Heat Pump Project	0.73	1.04	Hebei
7			Hebei Fuping Ground Source Heat Pump Project	7.47	10.68	Hebei
8			Beijing Haidian Ground Source Heat Pump Project	45.57	65.10	Beijing

9			Beijing Haidian Ground Source Heat Pump Project	7.29	10.42	Beijing
10		Air Source Heat Pump	Beijing Huairou Low Temperature Air Source Pump Project	4.37	6.25	Beijing
11			Beijing Yanqing Low Temperature Air Source Pump Project	1.37	1.95	Beijing
12			Beijing Pinggu Low Temperature Air Source Pump Project	1.82	2.60	Beijing
13			Beijing Shunyi Low Temperature Air Source Pump Project	1.37	1.95	Beijing
14			Liaoning Guanjiashan Ground Source Heat Pump Environment System Project	0.73	1.04	Liaoning
15		Ground Source Heat Pump	Dalian Jinpu New District Business Zone 900 MW Distributed Ground Source Heating and Cooling Source Station Project	328.10	468.72	Liaoning
16			Dalian Jinbo Bay Development Zone 900 MW Distributed Ground Source Heat and Cooling Source Station Project	328.10	468.72	Liaoning

17			Beijing Shuangxin Silicon Valley Ground Source Heat Pump System Project	0.91	1.30	Beijing
18			Beijing Insurance Park Ground Source Heat Pump Project	4.56	6.51	Beijing
19	CECEP Building Energy Conservation Co., Ltd.	Waste Heat Recovery	Aluminum Corporation of China Limited (Zhengzhou) Industry Waste Heat Recovery Project	12.29	17.55	Henan
20		Waste Heat Recovery	Zhengzhou Jinshui Science and Education City Heating Project	68.36	97.65	Henan
21		Waste Heat Utilization	Baosteel Waste Heat Utilization Project	27.34	39.06	Inner Mongolia
22		Water Source Heat Pump	Qingdao Jimo Huaixiu Water Source Heat Pump District Cooling and Heating Project	48.30	69.01	Shandong
23		Sea Water Source Heat Pump	Qingdao Jiaozhou Sea Water Source Heat Pump District Cooling and Heating Project	41.01	58.59	Shandong
24		Sewage Source Heat Pump	Shenyang Jinlang Sewage Source Heat Pump District Cooling and Heating Project	19.14	27.34	Liaoning

25		Energy Saving	Shenyang Huidong Heating System Energy Saving Project	41.01	58.59	Liaoning
26		Water Source Heat pump	Tongzhou Canal Core Area Water Source Heat Pump District Cooling and Heating Project	19.55	27.93	Beijing
27		Deep Well Geothermal	Langfang Guangyan Deep Well Geothermal project	18.23	26.04	Hebei
28		Clean Heating	Shijiazhuang Southwest Area Clean heating Project	45.57	65.10	Hebei
29	CECEP Industrial Energy Conservation Co., Ltd.	EMC	Hekou Blue Economic Development Zone Heat Supply Project	15.49	22.13	Shandong
30		Waste Heat for Power Generation	Lu'an Group 1.8 million Tons Coal-based Oil Efficient Heating and Waste Heat Power Generation Project	169.68	242.40	Shanxi
31		Efficient District Heating	Ruicheng County Industry District Heating Project	6.38	9.11	Shanxi
32		LNG for Power Generation and Waste Heat Utilization	Shandong Petrochemical New Energy LNG Distributed Energy Project	5.47	7.81	Shandong

33		Natural Gas Distributed Energy Supply	Langfang-Zhuozhou and Gu'an-Baoding High-speed Railway Station Distributed Energy Supply Project	22.79	32.55	Hebei
34	CECEP Both Environment Engineering and Technology Co., Ltd.	Sludge Carbonization	Changping Sludge Carbonization Project	16.41	23.44	Beijing
35	CECEP (Jinzhou) CleanTech Development Co., Ltd.	Hazardous Waste Treatment	CECEP (Jinzhou) Industrial Clean Production and Resource Recycling Utilization Project	25.80	36.86	Liaoning
36	CECEP Environmental Protection Equipment Co., Ltd.	EMC	Jidong Cement Energy Efficiency Improvement Project	132.88	189.83	Hebei
37	Blue-G New Energy Science and Technology Corporation	Hydrogen-based Low-emissions Transport	Zhangjiakou Winter Olympics Hydrogen-based Low-emissions Transport Project	15.91	22.73	Hebei
			Pingdingshan Hydrogen-based Low-emissions Transport Project	31.15	44.5	Hebei
			Bazhou Hydrogen-based Low-Emissions Transport Project	19.38	27.68	Hebei

38	Integrated Electronic Systems Lab Co., Ltd.	Natural Gas Trigenation, Solar Photovoltaic, and Smart Microgrid	Smart Industrial Zone Development Project	46.39	67.01	Shandong
39	Shanxi Liheng Iron & Steel Co., Ltd.	Coke Oven Gas to Natural Gas	Industrial By-product Gas Utilization Project	60.51	86.97	Shanxi
40	Shandong Luhai Petroleum Technology Co., Ltd.	Deep Well Geothermal Heating	Deep-Well Geothermal District Heating Project	7.88	16.60	Shandong
41	Shandong Luli Iron Steel Co., Ltd.	Super ESCO	Integrated Energy Saving, Dust Control, Super ESCO Project	23.75	33.93	Shandong
42	Shandong Tranlin Paper Industry Co., Ltd.	Agriculture Waste Utilization	Straw Pulp and Paper Making Comprehensive Utilization Project	305.46	436.37	Shandong
43	Shenyang Huitian Thermal Power Co., Ltd.	Heating Efficiency Improvement	Shenyang Clean Heating Project	22.79	32.55	Liaoning
44	ENN Ubiquitous Energy Network Technology Group	Ubiquitous Microgrid	Ubiquitous Microgrid Project	182.28	260.40	Hebei
45	CSPC Pharma	VOC Treatment	VOC Comprehensive Treatment Project	19.53	111.97	Hebei
46	Qian'an Jiujiang Coal Transportation Co., Ltd.	Coke Oven Gas to Natural Gas	Jiujiang Coke Oven Gas to Natural Gas Project Phase I	111.78	159.69	Hebei
47			Jiujiang Coke Oven Gas to Natural Gas Project Phase II	182.28	260.40	Hebei

48	Qian'an Jiujiang Coal Transportation Co., Ltd.	VOC Treatment	Jiujiang Coking VOC Treatment Project	0.91	1.30	Hebei
	Qian'an Jiujiang Coal Transportation Co., Ltd.	Desulfurization and Sulfur Waste Recycle	Jiujiang Coking Sulfur Foam and Desulfurization Waste to Sulfuric Acid Project	29.16	41.66	Hebei
50	Qian'an Jiujiang Wire Co., Ltd.	Exhaust Gas Recycle	Jiujiang Wire 93 MW High Temperature Ultrahigh Pressure Intermediate Reheat Gas Power Generation Project	25.77	36.82	Hebei
51	Qian'an Chiji Heating Co., Ltd.	Waste Heat recovery	Qian'an Waste Heat for Heating Project	29.06	41.51	Hebei
52	Qian'an Jiujiang Coal Transportation Co., Ltd.	Desulfurization and Denitrification	Jiujiang Coke Oven Desulphurization and Denitrification Project	45.57	65.10	Hebei
53	Ansteel Energy Service Co., Ltd.	Energy Efficiency and Emission Reduction	Ansteel No.2 Blast Furnace Dry Dedust Project		5.86	Liaoning
54			Ansteel No.3 Blast Furnace Dry Dedust Project		5.86	Liaoning
55			6 Converters Dry Dedust Project in the Headquarters and Bayuquan		55.07	Liaoning
56			Promotion and Application of Oxygen-enriched Combustion Technology in Blast Furnace Stove		0.39	Liaoning

57			Seal Transformation of Bayuquan Sintering Machines and Sinter-circle-cooling Machines		4.25	Liaoning
58			Reconstruction Project of Heating Furnace in Xichang Steel Vanadium Plate Rolling Mill		8.59	Liaoning
59			No. 11 Blast Furnace Preheating System Renovation of Ironmaking Plant		3.26	Liaoning
60			Pulse Single Thermal Insulation Baking Device Transformation for Bayuquan Ladle and Tundish		0.56	Liaoning
61			Retrofit of 100 tons of Vacuum Degassing Mechanical Pump in Steel Plant		4.48	Liaoning
62			No. 11 TRT Generator Capacity Improvement Project for Energy Control Center of Gas Plant		8.21	Liaoning
63		Resources and Energy Recycling	Energy Control Center Lingshan Area Heating Transformation		3.26	Liaoning

64			No.4 Blast Furnace Top Pressure Gas Recovery Project of Ansteel Headquarters		0.21	Liaoning
65			Chaoyang Iron and Steel Sintering Ring Cooler Waste Heat Recovery Project		7.16	Liaoning
66			Chaoyang Hot-rolled Heating Furnace Flue Gas Waste Heat Recovery Project		4.48	Liaoning
67			Coke Dry Quenching for Power Generation Project of Panzhihua Vanadium Plant		8.46	Liaoning
68			Vanadium Converter Gas Recovery Project		4.27	Liaoning
69			Bayuquan Blast Furnace Top Blast Furnace Gas Recovery Project		0.40	Liaoning
70			Dry Coke Quenching Steam Recovery and Utilization Project of Coking Plant		0.73	Liaoning
71			The Use of Waste Hot Water in Ansteel Plant		26.04	Liaoning
72			Energy Control Center Upgrade for Gas Plant		0.60	Liaoning

73			The Fourth Plant-- The Second Generation Regenerative Energy Saving Reconstruction of Ladle Bake		0.47	Liaoning
74			Hot Rolling Plant Water Pump Energy Saving Reconstruction Project		1.78	Liaoning
75			Large-scale Water Pump Energy Efficiency Improvement Project		1.30	Liaoning
76		Production Process Energy Saving	Circulating Water Pump Energy Efficiency Improvement Project of Control Center		0.25	Liaoning
77			Water Pump Energy Efficiency Improvement Project of Steelmaking Plant		0.99	Liaoning
78			Ansteel Blast Furnace Closed- loop Circulating Water Efficiency Improvement Project		0.95	Liaoning
79			No. 8 & No. 9 Furnace Primary Fan Frequency Conversion of Ansteel No. 2 Steel Plant		0.22	Liaoning

80			Bayuquan Pellet Variable Frequency Drive Project		0.94	Liaoning
81			Bayuquan Water Pump Reconstruction Project		3.85	Liaoning
82			Frequency Conversion of High Pressure Quenching Motor in Quenching Pumping Station of Bayuquan Heavy Plate Plant		0.35	Liaoning
83			Xichang Combustion Fan Frequency Conversion		0.59	Liaoning
84			Ansteel Fourth Plant Reconstruction of Air Station System		1.37	Liaoning
85			Coal Conditioning Project of AnSteel Coking Plant		4.69	Liaoning
86		Others	180 MW CCGP Generator Project in the 2nd Power Plant		104.16	Liaoning
87			65 MW Generating Units in Chaoyang		26.23	Liaoning
Subtotal for Ansteel				210.18	300.25	
Total					4,211.04	

CCPP = combined-cycle power plant, CECEP = China Energy Conservation and Environmental Protection Group, EMC = energy management contract, ESCO = energy saving company, LNG = liquefied natural gas, MW = megawatt, TRT = blast furnace top gas recovery turbine unit, VOC = volatile organic compound, W = watt.