

Project title:**BAGANUUR SEMI-COKE AND POWER PLANT****Project background, project outline:**

The main resource of fuel and energy sector and domestic consumption is coal. Coal is 65%, Diesel, gasoline and LPG are 32%, and others are 3% of total fuel consumption. Currently, about 93% of generating electricity and heating plants is using coal as fuel. Almost 7% is using Diesel, gasoline and LPG as fuel. And 0.3% is using renewable energy. Coal companies are exploring 5 Million tones coal per annum, in Mongolia. The Power plants and domestic heating boilers are using 84% of exploring coals. Other 16% is used in hometowns and households.

As the majority of the air pollution is secreted from the power plants and households in using conventionally non-processing coal, the Project will potentially replace using non-processing coal and therefore contribute to an improved Ulaanbaatar environment.

Production scale:

Semi-Coke production per year: 200 thousand ton

Power generation: 8 Mega Watts

Market orientation and market analyses, market survey:

In Ulaanbaatar, about 5 Mtpa of non-processing coal is fired in the (coal fired) Thermal Power Plants #4, #3, #2, domestic boilers and households having an affect on the air pollution. The Project provides an opportunity for downstream processing of the semi-coke in an environmentally smart way with the associated provision of employment and revenue benefits for Baganuur.

In addition, there are continuing efforts by the Mongolian Government to decrease the air pollution of Ulaanbaatar and to use the smokeless fuel in households and domestic boilers. The supply of semi-coke from Baganuur offers reliable and security of supply from a stable operation plant with abundant coal resources and high environmental standards. In addition, there are also transportation advantages for the customer to buy from the near markets.

Cooperation mode:

Bilateral or multilateral cooperation

Total investment:

Plant Capital Cost: \$13 500 000

Requested Investment from foreign partners:

\$ 13 500 000

Project venue, construction venue:

Baganuur Coal Mine, (located 135 km east from Ulaanbaatar in Mongolia.

Occupation area and construction area:

1000x1000 metr and more

Estimated economic benefit:	Plant Operating Cost /per year/:	\$5 826 200
	Sales Revenue /per year/	
	Semi-coke:	\$6 000 000
	Electricity:	\$2 880 000
Investment recovery period:	4.5 year	
Project progress:	<p>Numerous studies and surveys have been undertaken in developing the Project, including baseline studies and investigations previously undertaken for the project area. Local data collected for the Baganuur mine relevant to the Project was provided by Baganuur Company. The studies and investigations conducted for this Project include:</p> <ul style="list-style-type: none"> • Technology Selection • Initial Feasibility Study • Pre-feasibility study • Feasibility study (ongoing) 	
<i>INTRODUCTION TO THE MONGOLIAN PARTNER</i>		
Enterprise name:	Ministry of Fuel and Energy	
Ownership:	State owned	
Enterprise outline:	Setting, implementing and monitoring the fuel and energy policy, plans and measures.	
Construction and production conditions it can offer to the project:	<p>The Project is proposed to be constructed primarily on land within the Baganuur coal mine. The Semi-Coke Plant is proposed to be constructed with a full capacity of 200 tpa. The Semi-Coke Plant will comprise the twelve semi-coke ovens. Depending on the technology chosen for the Project, each oven will be approximately 3 m of diameter and 12 m high.</p> <p>The proposed power plant would generate up to 8 Mega Watts (MW). We are planning that the combined cycle gas turbine unit is constructed with both the gas turbine and the steam turbine driving a common electrical generator. The gas turbine will have a nominal capacity of 5 MW and the steam turbine 3 MW. The electricity produced would be supplied to the grid and the Semi-Coke Plant, as well as being used for power plant process and electrical requirements.</p>	
<i>CONTACT</i>		
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