

## **NKOSITHANDILEB SOLAR**

# **2MW Base Station Containerized Coal-bed Methane Power Generation**



## Overview

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What is Coal-Bed Methane (CBM)?

Coal-bed methane (CBM) is an accompanying product released from the coal mining process and mainly exists as an adsorbed gas on the coal surfaces . Because of the similar calorific value compared to the conventional natural gas, CBM has been identified as a potential clean energy and gained increasing attention over the past decades , .

Can low concentration coal-bed methane (LC-CBM) be environmentally friendly?

With the aim to utilize the low concentration coal-bed methane (LC-CBM) in an efficient and environmental friendly manner, a highly active catalyst and a thin anode function layer (AFL) are integrated to the microchannels supported SOFC. The effect of the oxygen content in LC-CBM is systematically investigated.

Is coal-bed methane a hazard?

It is estimated that methane contributes to 19 % of the total greenhouse gas emissions, and coal-bed methane emissions account for approximately 10 % of the worldwide anthropogenic methane . The emissions of LC-CBM not only lead to a waste of energy but also result in an environmental hazard , .

How LC-CBM is used in a SOFC reactor?

Methane conversion efficiency is increased from 23.59% to 43.22 % . Integrated SOFC reactor exhibits a robust coking tolerance. Efficient utilization of oxygen-bearing low concentration coal-bed methane (LC-CBM) via solid oxide fuel cell (SOFC) device to generate power is highly attractive and receives tremendous attention.

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The medium- and high-quality CBG (more than 30% of methane concentration) have shown a large variety of applications, such as fuels for industries, civil use or power ...

Spirit(TM) 2 - 2 MW Gas Turbine Power Generation System CAI's Spirit 2 MW is an Industrial Gas Turbine Power Generation package that is custom designed for continuous, reliable operation ...

Coal-bed methane (CBM), coal-mine methane (CMM) and abandoned mine methane (AMM), are all suitable for utilization in gas engines due to their ...

Highly efficient conversion of oxygen-bearing low concentration coal-bed methane into power via solid oxide fuel cell integrated with an activated catalyst-modified anode ...

Coalbed Methane Most coal mines contain significant amounts of coal mine gas and abandoned mine methane, which can be effectively harnessed for electricity and heat generation. The ...

The rated power of the gas generator set is 600-1500kW, suitable for gas with a methane concentration of more than 7.5%. The unit is optimized for the characteristics of low ...

Ly2000 Medium Voltage 6.3kv Low Concentration Cbm Genset 2 MW, Find Details and Price about Coal Bed Methane Power Generation from Ly2000 Medium Voltage 6.3kv ...

Coal-bed methane (CBM), coal-mine methane (CMM) and abandoned mine methane (AMM), are all suitable for utilization in gas engines due to their high methane content from 30 to 95 ...

Gas-fed cell: A new catalyst (Ni/BaO/CeO<sub>2</sub>, NBC) for methane conversion is developed and fabricated into a Ni-YSZ anode as an independent catalyst layer. The NBC ...

PetroChina's Liaohe Oilfield is located in Shanxi's coal-bed methane power generation project. It uses 8\*250kW (total power 2MW) containerized gas-fired generating units. The electricity ...

Coalbed methane (CBM) power generation can not only utilize the wasted energy and reduce the green house effect, but also promote the safety production of mines. This ...

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## Contact Us

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For catalog requests, pricing, or partnerships, please contact:

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