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Газовые, дизельные, твёрдотопливные электростанции Техническое описание

柴油电站
Diesel Power Plant柴油发电站模式
Diesel power plant mode组合舱式
Combined containers type开架式
open type集装箱式
Container type

我司与国际知名品牌发动机制造商Cummins、Perkins、VOLVO、MITSUBISHI、MTU、MAN等合作。

具备单机功率200-8730kW高速/中速柴油发电机组的成套及供货能力，根据客户要求可灵活选择发电机组的配置以满足不同的电站规划需求。

We work closely with international well-known brand engine manufacturers, such as Cummins, Perkins, VOLVO, MITSUBISHI, MTU and MAN.

Capable of assembling and supplying high-speed/ medium-speed diesel generator set of 200-8730kW/unit, we can supply various configurations to meet customer's requirements.

柴油电站的特点

- ① 燃油经济、热效率高；
- ② 工作可靠、耐久；
- ③ 功率变化广，单机：200kW-8730kW；
- ④ 配套设备结构紧凑、安装地点灵活；
- ⑤ 启动迅速、并能很快达到全功率，停机过程短，可以频繁起停；
- ⑥ 维护操作简单，维护人员少，备用期间保养容易；
- ⑦ 柴油发电机组的建设周期短；
- ⑧ 建设初期设备投资少；
- ⑨ 应用方式：可选择常用功率、备用功率、连续功率等模式。

FEATURES

- ① Fuel economy, high thermal efficiency;
- ② Reliable and durable;
- ③ Wide power variety: single unit ranges from 200kW-8730kW;
- ④ Compact structure of supporting equipment and flexible installation on site;
- ⑤ Quick start and shut down, reaching full power in short time, and can be started and shut down frequently;
- ⑥ Simple maintenance, less personnel required, easy maintenance at standby application;
- ⑦ Short construction time;
- ⑧ Less equipment investment at initial construction;
- ⑨ Application available at prime power rating, standby power rating, continuous power rating and other modes

根据项目特点选择 OPTIONS BASED ON THE PROJECT CHARACTERISTICS

- 不同的转速（低速、中速、高速）；
- 不同的发电机电压；
- 不同的结构型式（开架式、静音式、集装箱式、组合方舱式）

- Different engine speed (low speed, medium speed and high speed);
- Different generator voltage;
- Different structures (open type, soundproof type, container type, combined containers type)

02

智能电站方案
Intelligent Power Plant

单机功率范围
POWER RANGE OF SINGLE UNIT

1,000kW - 10,000kW

重油电站

Heavy Fuel Oil Power Plant



案例 CASE 1
40MW HFO / LFO



案例 CASE 2
80MW HFO / LFO

我司与国际知名的中速重油发动机制造商MAN、瓦锡兰等合作。具备单机功率400-8000kW，转速500-1000rpm的中速重油发电机组的供货能力，根据客户要求可灵活选择发电机组的配置以满足不同的电站规划需求。

We work closely with international well-known medium speed heavy fuel oil engine manufacturers MAN, Wartsila and etc.

Capable of assembling and supplying medium-speed (500-1000rpm) heavy fuel oil generator set of 400-8000kW/unit, we can supply various configurations to meet customer's requirements.

重油电站特点

- ① 相对柴油而言，重油价格较低；
 - ② 耐久性好，大修期长（最长的长达40000多小时）；
 - ③ 低噪音、运行稳定、可靠且可连续运行；
 - ④ 充分利用废气制冷，产生可观的经济效益；
 - ⑤ 低滑油、低燃油消耗率；
 - ⑥ 大功率输出，装机容量大，带负载能力较强，可长期在90%负载
 - ⑦ 安全可靠运行；
 - ⑧ 主要燃料为：重油。启动及停机前需要燃用柴油，正常运行时燃用重油；
 - ⑨ 重油机安装占地面积较大，建设初期设备投资成本高，安装周期较长；
 - ⑩ 运行、维护复杂，维护操作需要更高技术水平专业人才；
- 应用方式：广泛应用于连续电站。

FEATURES

- ① Cheaper fuel comparing with diesel;
 - ② Good durability with long overhaul period (the longest overhaul period up to 40,000 hours);
 - ③ Low noise, stable and reliable at continuous operation;
 - ④ Make full use of the waste gas for refrigeration, high economic benefits;
 - ⑤ Low consumption rate of the lub oil and fuel;
 - ⑥ Large capacity and high power output, with strong load capacity, long-term operation at 90% load;
 - ⑦ Safe and reliable operation
 - ⑧ The main fuel is heavy fuel oil. Use diesel when start and shutdown, use heavy fuel oil during the normal operation;
 - ⑨ Large land required for the heavy fuel oil generator installation, high equipment investment at initial construction, and long installation period;
 - ⑩ Complicated operation and maintenance, highly trained technicians required;
- Application: continuous power plant;

根据项目特点选择 OPTIONS BASED ON THE PROJECT CHARACTERISTICS

- 不同的转速（低速、中速）；
- 不同的发电机电压；
- 不同的结构型式（开架式、组合方舱式）
- Different engine speed (low speed, medium speed);
- Different generator voltage;
- Different structures (open type, combined containers type)



案例 CASE ③
30MW HFO / LFO



案例 CASE ④
18MW HFO / LFO

燃气电站及冷热电联供

Gas Power Plant &
Combined Cooling Heating and Power燃气电站
Gas Power Plant

天然气电站特点

- 1 供电安全性高，系统稳定
- 2 投资成本低，收益好
- 3 能源利用率高
- 4 清洁、环保

FEATURES

- 1 High security and stability
- 2 Better investment and return
- 3 High efficiency
- 4 Friendly to environment

燃气发电机组可用燃料类型
FUEL TYPES FOR GAS GENERATOR天然气
Natural Gas石油伴生气
Oilwell Gas垃圾填埋气
Landfill Gas生物质气
Biogas煤层气
CMM

高热燃气 > 34 MJ/NM³ 天然气、煤层气、油田及气田火炬

低热燃气 16.7 ~ 34 MJ/NM³ 垃圾填埋气，厌氧过程产生的沼气(食物处理、废水、污水及动物废料)

High Btu gas > 34 MJ/NM³ Natural Gas, Coal Bed Gas, Oil Gas

Low Btu gas 16.7 to 34 MJ/NM³ Landfill gas, Bio-gas

应用范围 APPLICATION SCOPE

医院 / 温室 / 酒店 / 工厂 / 数据中心 / 大学 / 区域供能 / 沼气及垃圾处理场 / 煤矿 / 油田

Hospital / Green house / Hotel / Industry / Data center / University / Energy center / Landfill / Coal mine / Oil field



冷热电联产(三联供)

Combined Cooling Heating And Power (CCHP) System

主要是利用十分先进的燃气内燃机燃烧洁净的天然气(或沼气)发电，对做功后的余热进一步回收，用来制冷、供暖和生活热水。

Using gas reciprocating engines to generate electricity, and recover heat from engine exhaust and jacket water to provide cooling or heating.

冷热电联产系统优势

- 1 更高的电力质量
- 2 减少能量传输成本
- 3 综合能源利用率高
- 4 获得更低的能源成本
- 5 降低排放保护环境
- 6 极大缓解用电高峰
- 7 系统形式多、可选设备多、适用性广

ADVANTAGES OF CCHP SYSTEM

- 1 Greater Power Quality
- 2 Reduce transmission cost
- 3 High energy efficiency
- 4 Maximize cost saving by CCHP
- 5 Low environmental impact
- 6 Reduce the grid peak demand
- 7 Flexibility for extension

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