



# On-site Energy

Natural Gas, Petroleum Gas,  
Liquefied Petroleum Gas, Coalbed Gas



[www.powerlinkworld.com](http://www.powerlinkworld.com)

Choose Powerlink, Choose Clean Energy

More Information



If there is technical data change without notice, please contact POWERLINK company or your local agent for more details.

# POWERLINK

## ABOUT US

PowerLink, founded in 2001, is a manufacturer focusing on gas cogeneration. PowerLink is committed to provide global users with advanced technology and excellent quality distributed Cogeneration Equipment and system solutions for natural gas and biogas. There is one R&D center and three manufacturing factories across the world. PowerLink has a global distribution marketing network with more than 200 sales service providers in more than 100 countries, and has set up subsidiaries in China, the United Kingdom, the United States and Australia. PowerLink insists on providing professional and high-quality products and services for global users, and on providing advanced, environmental friendly, safe and valuable green energy products and systems for users.

PowerLink Natural Gas Cogeneration is suitable for industrial users such as hotels, hospitals, schools, clubs, large-scale commercial organizations and factories. It can provide users with a system solution of cogeneration of heat, power and cold. The power ranges from 10 Kw to 2000 Kw. It belongs to advanced distributed energy products. It can provide users with a new choice of energy supply. Compared with traditional energy, the cost of energy is greatly reduced.

PowerLink biogas cogeneration is suitable for anaerobic fermentation of organic matter in agriculture and animal husbandry or biogas power generation in COD degradation process of industrial organic wastewater. The output power of the unit is from 50Kw to 2000 Kw. The generated power can be used for self-use or residual power transmission grid or all transmission grid. It belongs to advanced renewable distributed energy products and installed in large quantities in industrial and agricultural users.

PowerLink Gas Generator is suitable for natural gas, petroleum associated gas and low thermal value gas fuel. Its power output ranges from 12 Kw to 2000 Kw. It provides a complete solution for petroleum exploitation, traditional energy substitution and energy regeneration.

From concept to finished product delivery, we strictly implement the product quality system of ISO 9001: 2000. Every Product has passed strict and standard manufacturing, testing and inspection to ensure reliable quality.

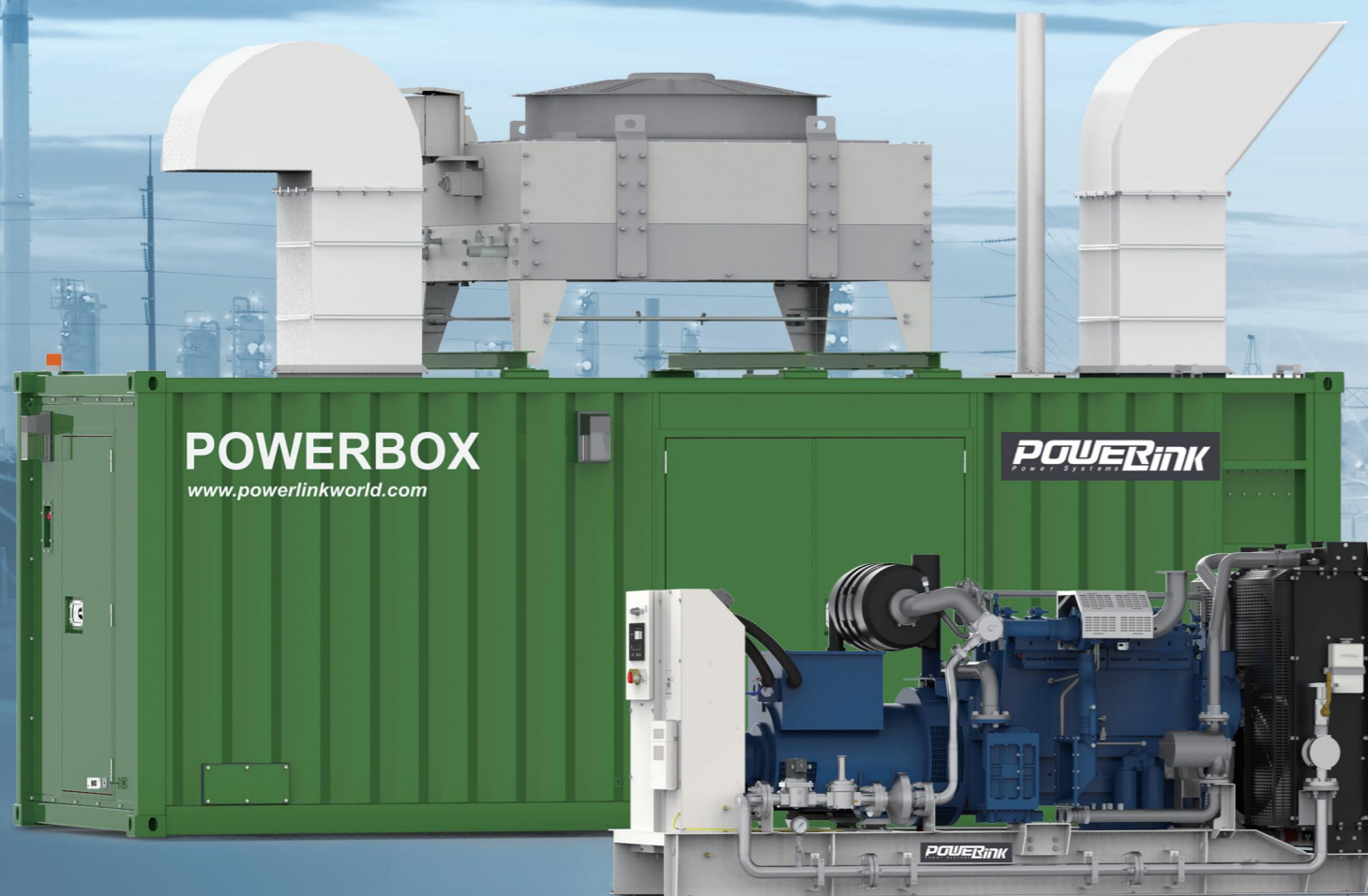
PowerLink is not only a single equipment manufacturer, but also a solution provider for energy systems in various industries. It develops, manufactures, distributes, runs projects, provides services, and invests in distributed energy resources in the field of energy equipment. PowerLink has become a global advanced, green, environmentally friendly and safe energy system supplier.

# THE VALUE OF THE POWERLINK ON-SITE ENERGY FOR YOU

## The Value Of PowerLink On-site Energy Products:

- We should use natural gas, renewable gas and waste gas as driving force instead of traditional energy to form sustainable development.
- Oil associated gas (APG): instead of diesel, the by-product in the production process of crude oil is used to save the cost of long-distance transportation of fuel.
- Liquefied petroleum gas (LPG): the gas produced in the extraction of crude oil or from the process of oil or gas exploitation as an independent field power supply, providing uninterrupted power.
- Natural gas (NG): clean energy is used as a burning raw material to avoid methane release into the atmosphere after the action, which is in line with the environmental requirements and reduces the greenhouse effect.
- Coal bed gas (CG): the utilization of CBM can improve the production conditions of the coal mine, reduce the emission of greenhouse gas, and achieve the multiple objectives of protecting the resources and protecting the environment.

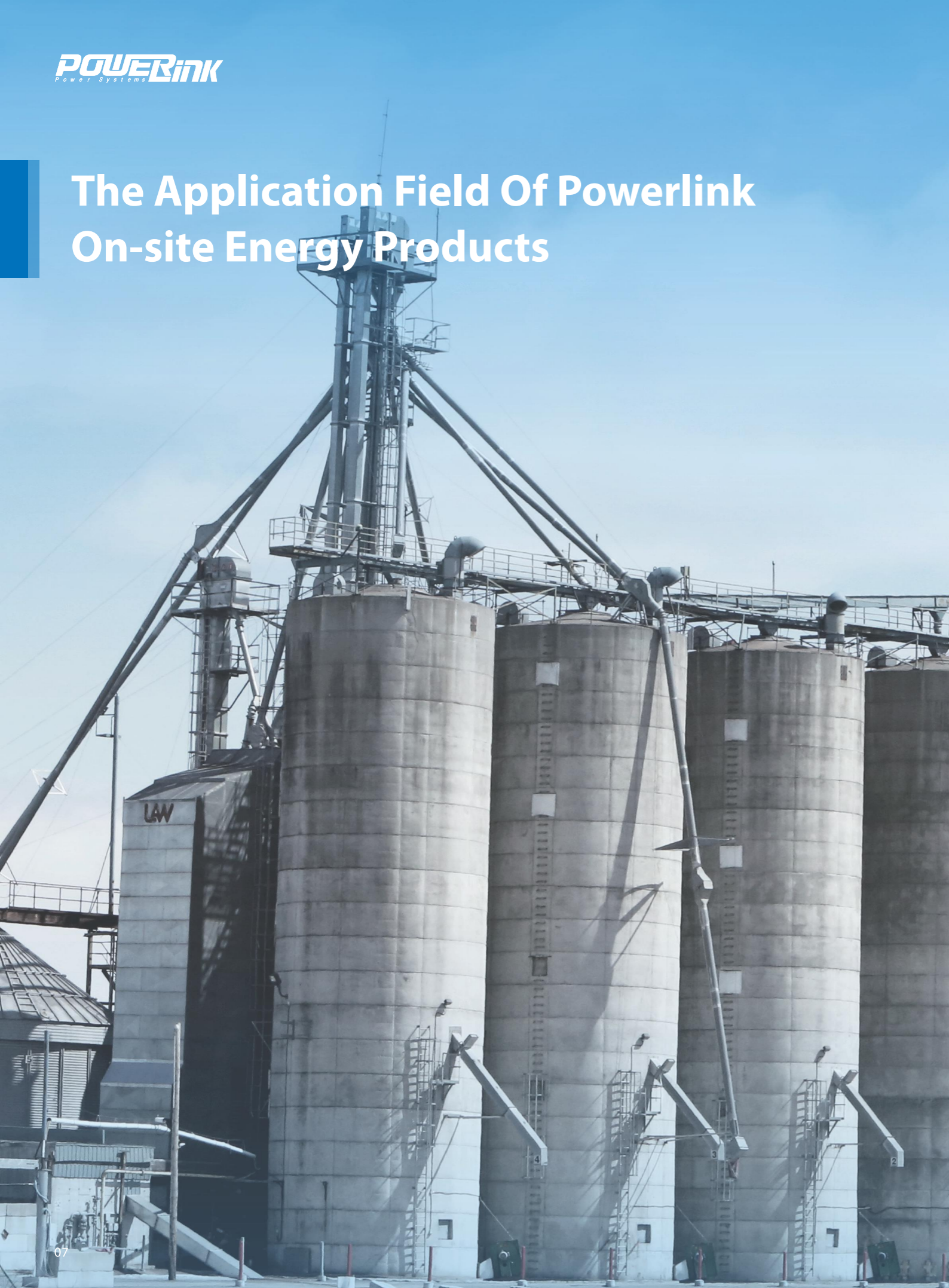
# WIDELY USED IN MANY FIELDS



## Powerlink On-site Energy Products Applications:

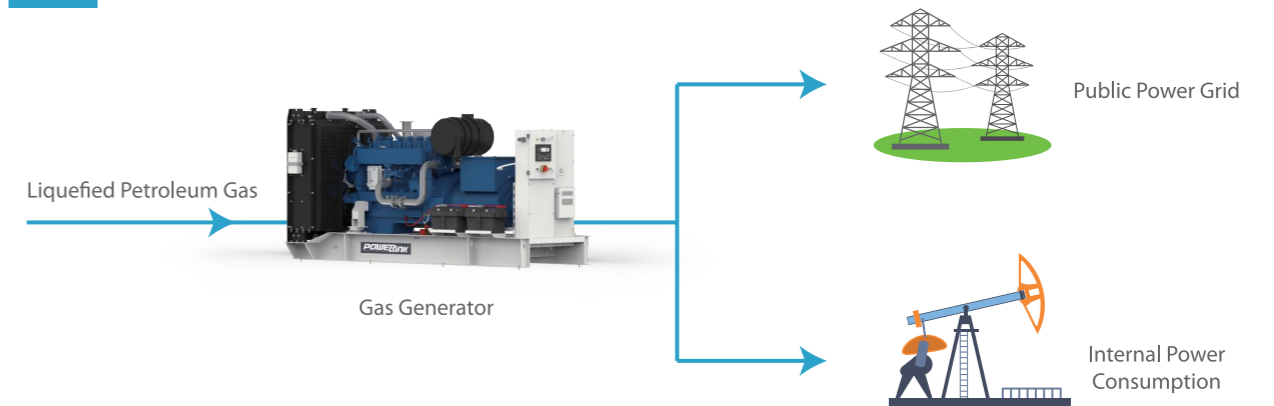
- Industrial and commercial buildings, hotels, hospitals, schools, residential areas, oil fields, coal mines and many more...

# The Application Field Of Powerlink On-site Energy Products



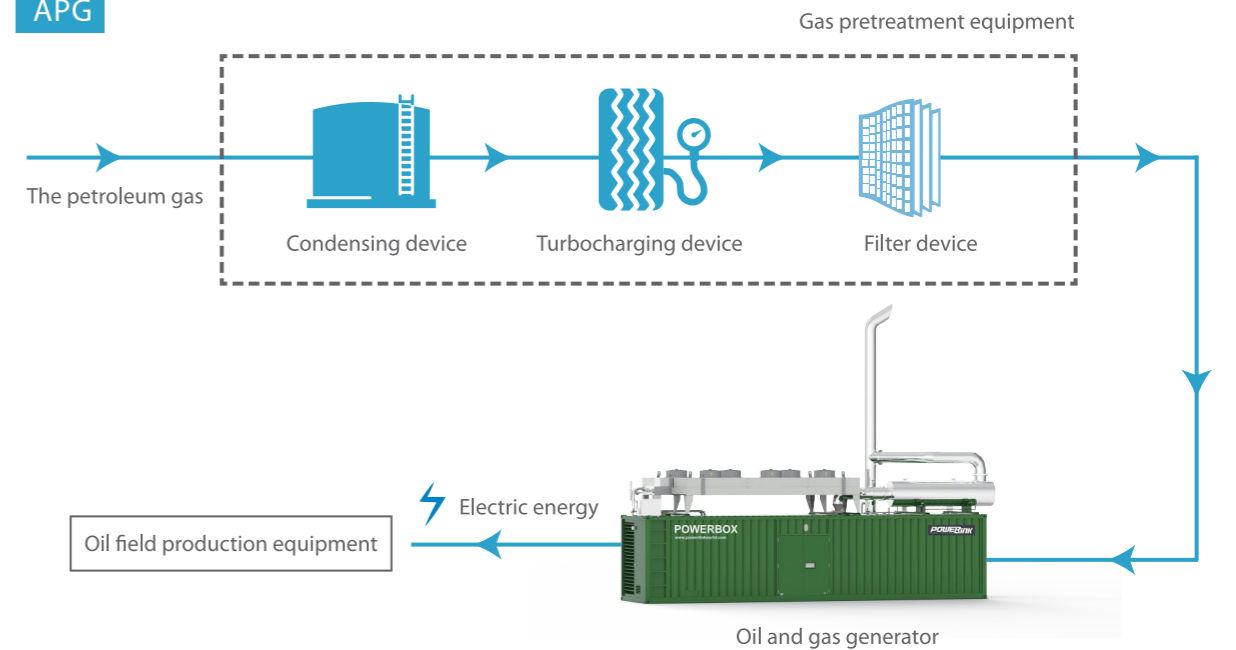
## Powerlink on-site energy product process flow chart

### LPG



- LPG: as a fuel, it can improve fuel efficiency and reduce harmful gas emissions; solid waste emissions are almost zero; TSP (total suspended particles) is reduced by 95%; no secondary pollutant (abide by environmental protection requirements).

### APG

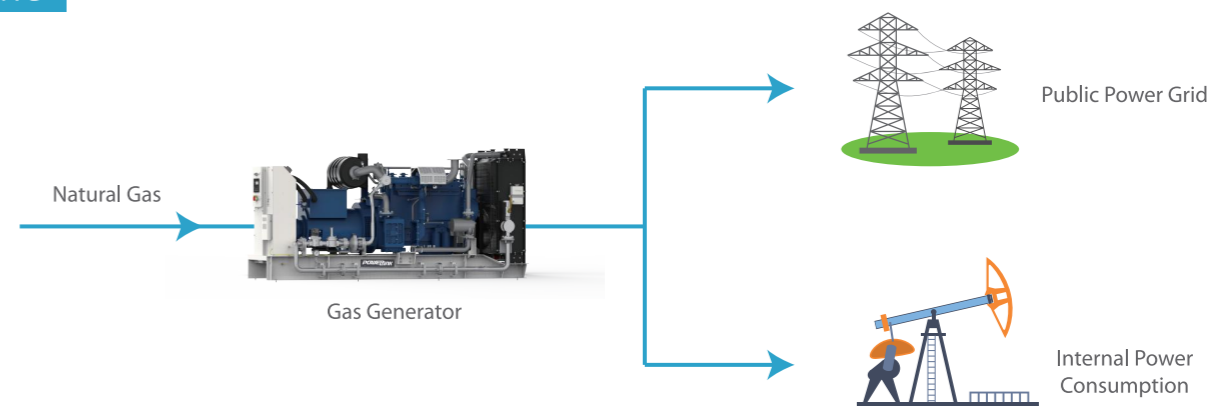


- APG: the associated gas after purification can be used as the fuel of the generating unit to meet the demand of the oil field, and the excess power can be transported to the public grid under suitable conditions. At the same time, it can solve the gas processing problems, save energy, protect the environment, and avoid long distance transportation fuel.

# The Application Field Of Powerlink On-site Energy Products

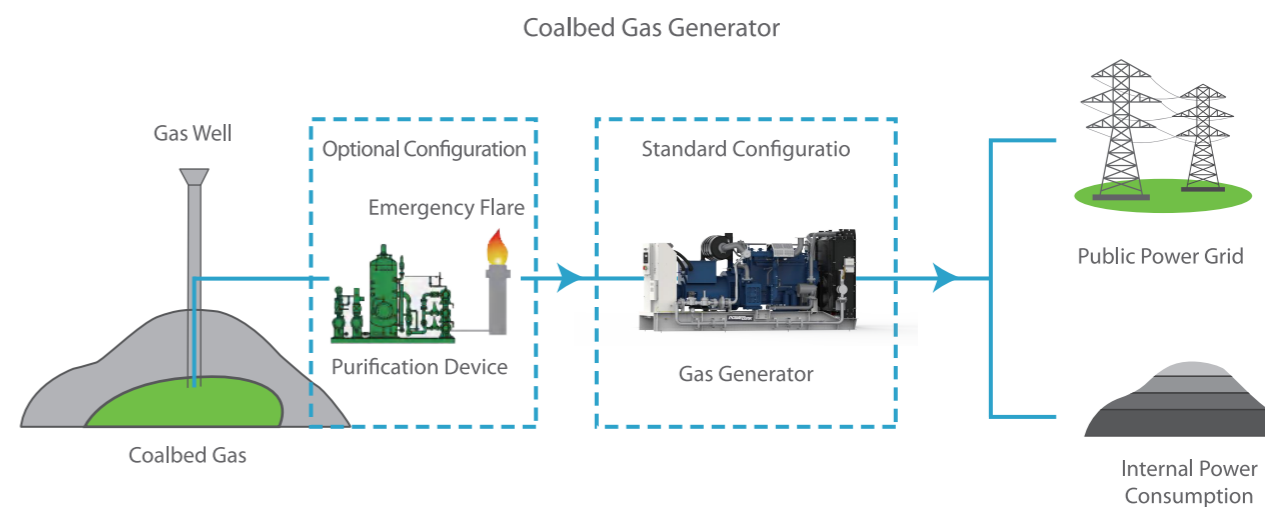
## Powerlink on-site energy product process flow chart

NG



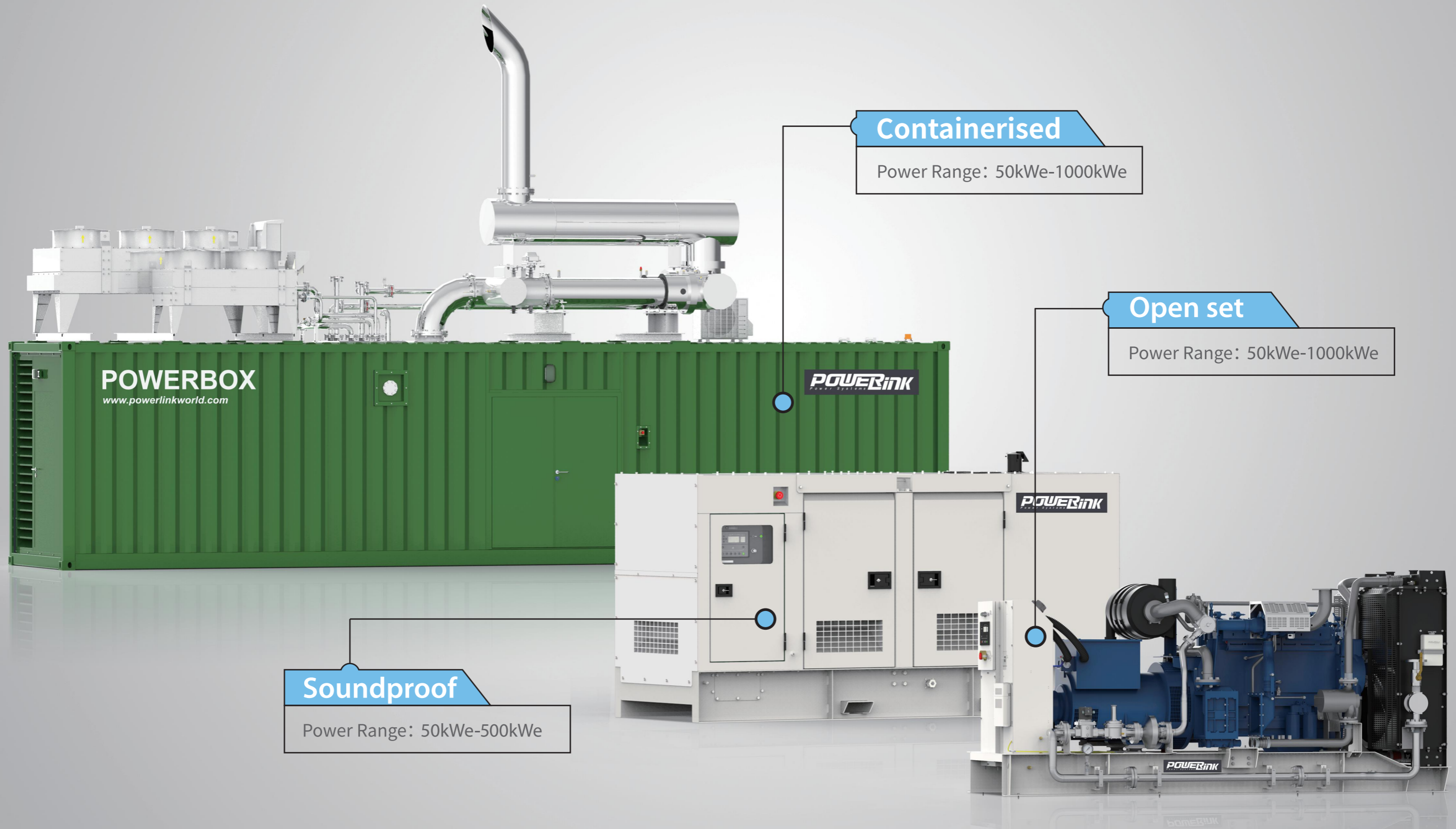
- Natural gas is an ideal fuel. As a clean energy, the full combustion of NOx and other pollutants and greenhouse gases has little impact on the environment; in addition, more than 90% of the components are methane, and the heat value is high. City gas pipeline can provide sufficient gas source, and there is no need for purification.

CG



- CG: coal-bed methane after purification can be used as fuel for generating units, which not only reduces the risk of gas explosion in coal mines, but also saves energy and protects the environment. The electric energy generated can meet the demand of coal mine electricity, and it can also be exported to the public power grid.

# ON-SITE ENERGY PRODUCTS



## Containerised

Power Range: 50kWe-1000kWe

## Open set

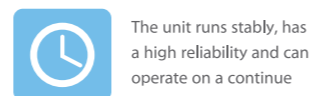
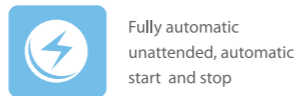
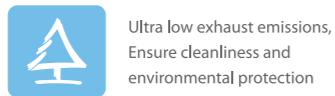
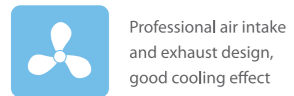
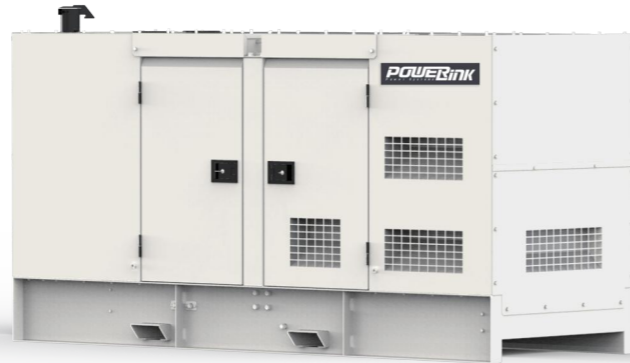
Power Range: 50kWe-1000kWe

## Soundproof

Power Range: 50kWe-500kWe

# POWERLINK On-site Energy Products

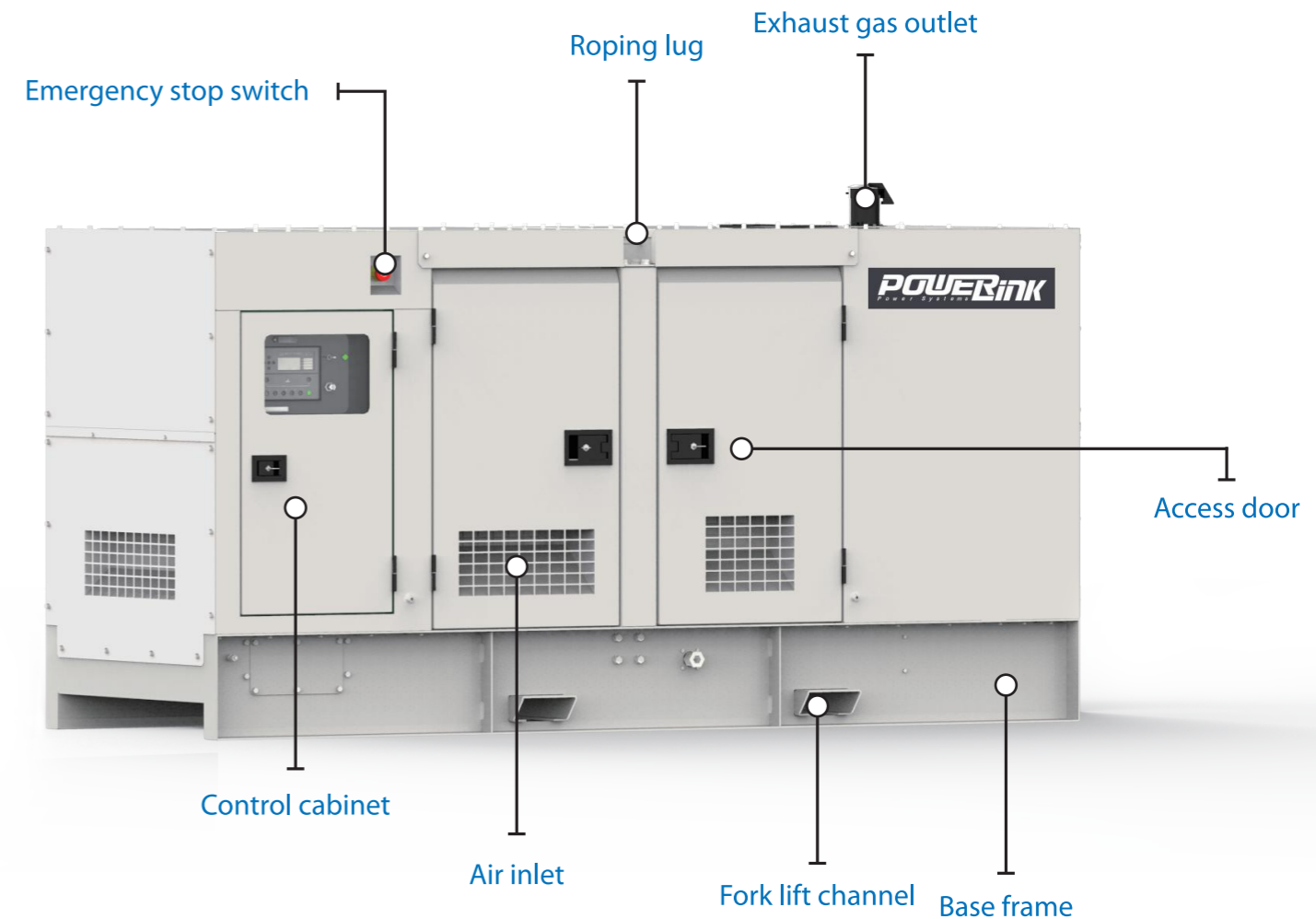
- Low noise, 65dBA@7m (Soundproof)
- 24/7 continuous running
- Low maintenance cost
- Simple to operate and designed suit for sea/road transport
- Designed ambient temperature at -10-50°C
- High electrical efficiency  $\geq 36\%$



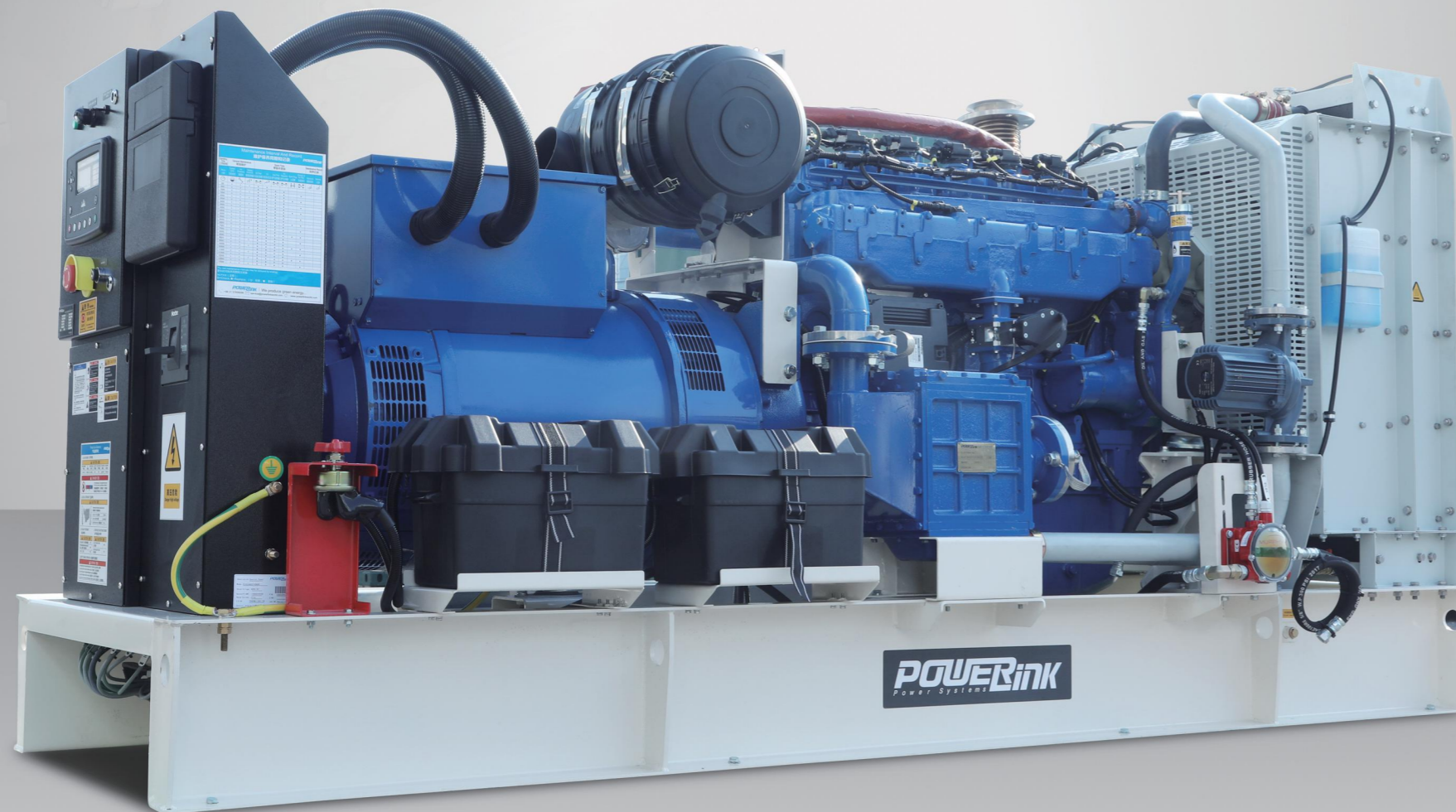
## Powerlink on-site energy products spectrum

| On-site Energy Products Mobile |                       |                       |   |  |  |
|--------------------------------|-----------------------|-----------------------|---|--|--|
| Model                          | Electrical power (kW) | Electrical efficiency | The gas consumption (m <sup>3</sup> /h) | Voltage  | Emissions  |
| GXE50                          | 50                    | 32.6%                 | 26                                      | Standard voltage<br>380-480V<br><br>Optional voltage<br>200-240V | NOx<500mg/Nm <sup>3</sup><br>CO<650mg/Nm <sup>3</sup><br>HCHO<60mg/Nm <sup>3</sup><br>NMHC<150mg/Nm <sup>3</sup> |
| GXE100                         | 100                   | 35.2%                 | 47                                      |  |  |
| GXE150                         | 150                   | 35.3%                 | 71                                      |  |  |
| GXE200                         | 200                   | 35.5%                 | 94                                      |  |  |
| GXE250                         | 250                   | 36.5%                 | 114                                     |  |  |
| GXE350(*)                      | 350                   | 37.8%                 | 154                                     |  |  |
| GXE550(*)                      | 550                   | 38.4%                 | 239                                     |  |  |
| GXE800(*)                      | 800                   | 38.2%                 | 349                                     |  |  |
| GXE1000(*)                     | 1000                  | 38.1%                 | 438                                     |  |  |

Notes: 1) The above data can only be used as a reference, and the actual data should be based on the technical single page. 2) (\*) Expected to be listed in June 2018.



# POWERFUL ENGINE



## Powerlink On-site Energy Products Main Features

### An efficient and durable engine

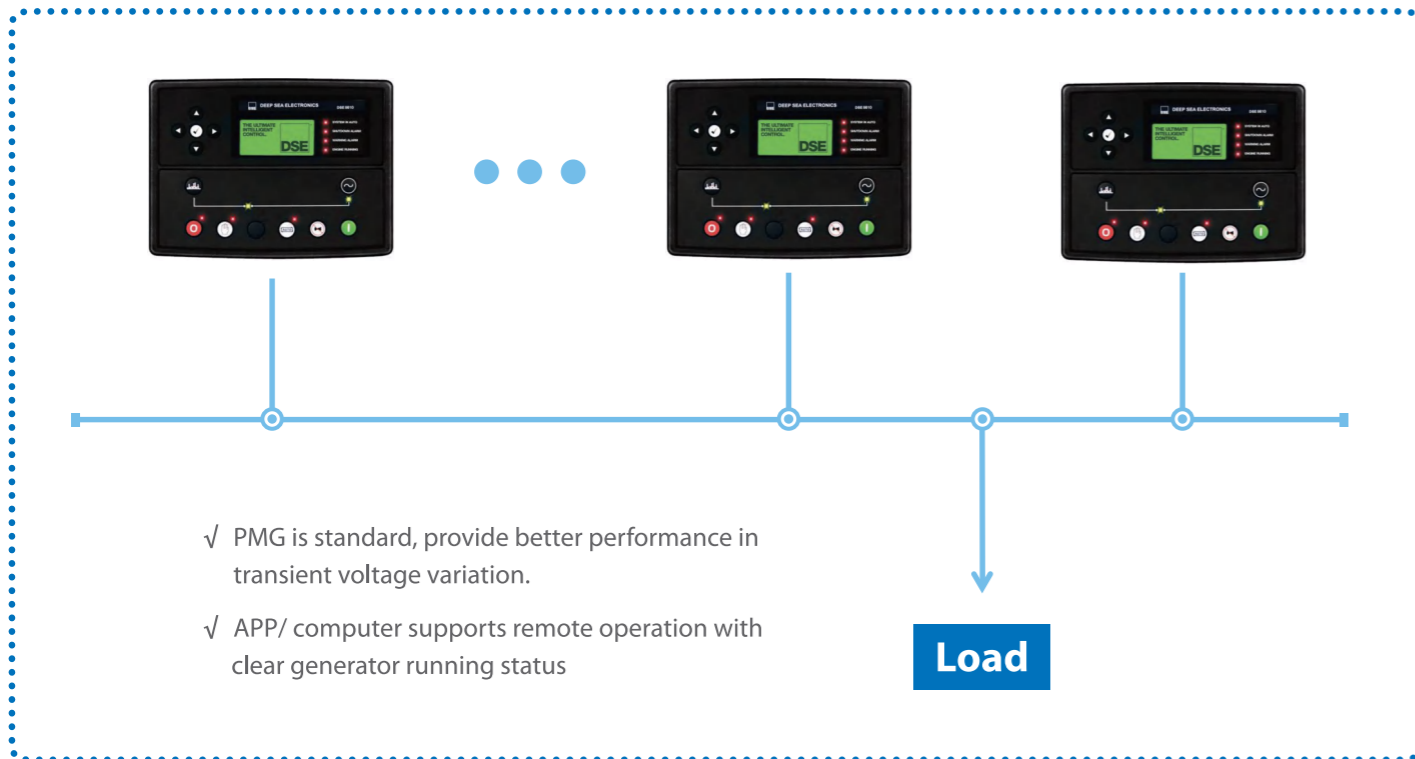
- Cylinder unit Optimised for better maintenance achievement, Standardization of the parts to reduce the spare parts stock requirement, shorten the time spending on the maintenance, Saves up to 20% of the service cost;
- The high overall efficiency achieves high profitable ; at the same time it can reduce carbon deposition within the engine cylinder combustion chamber, reduce cylinder wear and prolongs the service life

### The reliable generator

- Short-term current up to 300% (3 IN): 10S, greatly enhanced the protection of the generator;
- Power generation efficiency up to 96%, low thermal radiation, PMG generator to maintain long-term operation;
- long service life, 8000 hours a year continuous operation

# Powerlink On-site Energy Products Main Features

- Multiple units Synchronisation and load shedding function
- Optimize operation according to the load requirement to achieve the best fuel efficiency.
- Stable operation and high reliability;



## Ultra low noise control

- Using variable speed fans to adjust the fan speed by load and site condition to achieve better fuel consumption;
- Integral design: the canopy/container is well attenuated with high density mineral wool, with attenuators, residential silencer to achieve better noise emission



# Professional after-sales service and spare parts supply system

## 01 Service Contract

- Short term service contract
- Long term service contract
- Customised service contract

## 02 Spare Parts

- Genuine factory parts
- Emergency replacement parts

## 03 Field service

- Overhaul
- Debugging
- Repair

## 04 Maintenance plan

- Investigation and analysis
- Post-processing
- Maintenance
- Upgrade
- Repair scheme
- Standard
- Extension

## 05 Technical training

- Operation training
- Maintenance training
- Service training
- Device management

## 06 Online customer support

- Remote diagnosis
- Reception
- Technical data base
- Software upgrade