More Gas for Power • Gas for More Power

Ir CHAN Fan
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Hong Kong SAR Government
Looking Back
Monitoring the Earth from Space
Global Energy Consumption

Energy in Gigajoules per Capita

Global CO₂ Emission
Looking Ahead
Global CO₂ Emission

46%
Climate Change
World Energy & Emissions

**Primary Energy Supply**
- 21% Gas
- 18% Others
- 32% Oil
- 29% Coal

**CO₂ Emissions**
- 35% Oil
- 20% Gas
- 1% Others
- 44% Coal
Energy Consumption - HK
Energy Market - HK

Electricity 54%
Gas 17%
Oil 29%

Fuel Mix
- Coal 55%
- Nuclear 23%
- Natural Gas 22%

Production Fuel
- LPG 13.2%
- Town Gas 86.8%
- Naphtha 45%
- Natural Gas 55%

Approx. 22% of total energy consumption is supplied by natural gas and LPG.
Greenhouse Gas Emissions
HK by Sector

67.2% Electricity Generation

19.3% Transport*

4.9% Other End Use of Fuel

5.3% Waste

3.3% Industrial & Agriculture

* Transport includes MTRC railway operation by electricity
More Gas for Power

- Proposed future Fuel Mix

Present Fuel Mix

- Nuclear Power: 55%
- Natural Gas: 23%
- Purchase from Mainland Grid: 22%

* Inclusive of a small percentage of other fuels

Option 1 (Purchase from Mainland Grid)

- Nuclear Power: 10%
- Natural Gas: 30%
- Purchase from Mainland Grid: 40%

Option 2 (More Natural Gas)

- Nuclear Power: 20%
- Natural Gas: 60%
- Purchase from Mainland Grid: 20%

* Inclusive of a small percentage of other fuels
Gas for More Power

Power Generation

Domestic & Commercial Use

Vehicle
Hong Kong
<table>
<thead>
<tr>
<th>Year</th>
<th>No. of injuries</th>
<th>No. of injuries per million capita</th>
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* Up to Oct 2014
## Gas Safety

<table>
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<tr>
<th>Countries / Economies</th>
<th>Occurrence *</th>
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<td>Australia</td>
<td>0.4 to 2.0</td>
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<td>UK</td>
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<td>USA</td>
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* Number of Gas Leaks / KM / Year
Advancing Gas Value Chain and Optimizing Public Value