The Electrification of Public Transport in Foshan

status | target | development | policy | financing |

Management Committee of Foshan Sino-German Industrial Services Zone (Sanlongwan Innovation Cluster)

Presenter: Chen Jingyi
The briefing—What we have done?

**KEY WORDS:**
- Starting from 2017;
- The goal of air pollution prevention and control;
- The electrification of public transport

**Air pollution**

**Electric buses**

**hydrogen-powered trams**

**Policy and financing**

**KEY WORDS:**
- The first hydrogen-powered tram in China

**KEY WORDS:**
- All-electric battery buses;
- Hydrogen energy buses;
- New or updated buses;
- Realizing 100% electrification at the end of 2020.

**KEY WORDS:**
- Policies and financial investment;
- Three important policies and regulations;
- 900 million yuan
The status—What’s the achievement?

<table>
<thead>
<tr>
<th></th>
<th>2016</th>
<th>2017</th>
<th>2018</th>
</tr>
</thead>
<tbody>
<tr>
<td>num. of buses</td>
<td>6790</td>
<td>6920</td>
<td>6989</td>
</tr>
<tr>
<td>num. of green buses</td>
<td>5902</td>
<td>6283</td>
<td>6989</td>
</tr>
<tr>
<td>num. of new energy buses</td>
<td>1489</td>
<td>2018</td>
<td>2763</td>
</tr>
<tr>
<td>proportion of green buses</td>
<td>87%</td>
<td>91%</td>
<td>100%</td>
</tr>
<tr>
<td>proportion of new energy buses</td>
<td>22%</td>
<td>29%</td>
<td>40%</td>
</tr>
</tbody>
</table>

Note:
Green buses include LNG bus, all-electric battery buses and hydrogen energy buses
New energy buses include all-electric battery buses and hydrogen energy buses
At the end of 2019, Foshan will reaching the goal of 100% electrification of public transportation. 10 hydrogen energy stations and 39 charging stations (including 448 charging piles) has been completed in 2018.

By the end of June 2019, there were about 4,000 new energy buses in Foshan.
The first hydrogen energy tram in China is being built in Gaoming district. The first part of the line is about 6.5 kilometers long with 10 stations, crossing the city from the North to the South. It is expected to put into use by the end of this year.
The policies—

*The Promotion and Application Work Plan of Hydrogen-powered Buses and All-electric Battery Buses During 2018-2019*

01. a construction plan for the development scale of bus electrification

02. clarifies what functions and responsibilities the various departments should take

03. assesses the trouble and risks

04. puts forward solutions
The policies—


01. exploring the practical application of hydrogen-powered vehicles

02. accelerating demonstration application of hydrogen-powered trams to explore commercial operation mode

03. the construction of hydrogen energy stations can be combined with gas stations

04. By 2030, 4000 hydrogen-powered bus capacity, 57 hydrogen energy stations and 4 hydrogen-powered trams
The policies—


analyze

• how this hydrogen energy industry development plan impact Foshan's future energy structure and industrial transformation

assessment

• 11 indicators such as energy efficiency, atmospheric environment, ecological protection, industrial development level and economic benefits are evaluated
• scenario analysis and sustainability assessment

results

• optimize Foshan's energy structure and significantly reduce the use of natural gas
• drive the transformation of Foshan's industrial structure to become healthier, more efficient and sustainable with better environmental quality
The financing—

<The Regulation of Financial Subsidy for New Energy Bused and Infrastructure Construction>

01. 50% of national standard for all-electric battery buses and 100% accordingly for hydrogen-powered buses

02. 150 yuan / kWh subsidies for DC charging pile and 50 yuan / kWh subsidies for charging pile

03. A 1.5 million - 3 million yuan subsidy for each hydrogen energy station during 2018-2030

04. Foshan will invest 900 million
Thanks for listening