BYD SkyRail
Elevate Your Commute, Elevate Your Life
Traffic congestion creates the worst kind of pollution, and it is not getting better. Historical data indicates that traffic congestion is up by 13% globally since 2008. Today, drivers in Mexico City spend 59% more time in traffic during the day, and up to 103% more time during peak periods. This means up to 219 wasted hours each year.
Transformational City Transport

- Low Construction Cost
- Short Construction Period
- Safe Mode of Transit
- Easy City Integration
- Excellent Topographic Adaptability
- Enjoyable Rider Experience
- No Occupancy of Roads
**BYD SKYRAIL HIGHLIGHTS**

**Low Construction Cost**

SkyRail is only one fifth the cost of subway, making it more profitable for operators with less tunneling, demolition and construction. For countries or cities who have concerns with the financial burden and high costs of building, operating and maintaining a subway system, SkyRail is an ideal choice.

**Short Construction Period**

The prefabricated track beams of the SkyRail result in a construction schedule as short as 2 years, only one third of the time to build a subway.

**Easy City Integration**

With over three times the gradeability compared to conventional rail systems and a significantly tighter turning radius, SkyRail seamlessly integrates into the existing cityscape. This avoids unnecessary demolition and reduces the complexity and cost of construction.
The pillars that support the single track beams are approximately 1 m (3.5 ft) in diameter and can be constructed in the medians of existing roads.

Safety side tracks enable passengers to reach safety in an emergency situation.

No Occupancy of Roads
The SkyRail’s narrow track beams and support pillars minimize land use, allowing the SkyRail to be installed in congested areas and alongside existing highways.

Safe Mode of Transit
• BYD proprietary technologies in electric motors, electronic controls, and batteries ensure the highest level of reliability.
  State-of-the-art power backup in each carriage keeps the monorail running, providing over 10 km (6 miles) of off-grid range in the event of a power outage.
• Flame-resistant materials are used to reduce the risk of onboard fires.
• SkyRail’s larger train-to-rail-beam overlap ensures a higher level of stability.
  The independent elevated rail design eliminates opportunities for traffic collisions compared to Light Rail Vehicles and Streetcars operating on the same roads as passenger cars.
• Safety side tracks enable passengers to reach safety in an emergency situation.
**Superior Energy Efficiency**
- Regenerative braking further powers the BYD Iron-Phosphate batteries with around 30% improved efficiency.
- The high-torsion, all-aluminum body greatly reduces energy consumption and tire wear.
- The BYD permanent magnet electric motor shaft drives the wheels directly, greatly increasing efficiency.

**State-of-the-Art Driverless Control Technology**
- State-of-the-art automated control technology.
- Modern and sleek design of both the body and rail system adds to any urban city environment.

**High Capacity Flexibility**
- Multiple carriages can be connected to provide flexibility to adjust to a variety of transportation capacity needs.
- SkyRail has an adjustable passenger capacity with the ability to move 10,000-30,000 passengers per hour each way.
1,000 ENGINEERS
5 YEARS OF R&D DEVELOPMENT
$1 BILLION (USD) TECHNOLOGY INVESTMENT

BYD SKYRAIL PROJECTS:
• Shenzhen BYD Headquarters: 4.4 km/2.7 mile track, 7 stations.
  Anticipated Completion: June 2017 (initial two stations completed in September 2016).
• Strategic cooperation agreements with China’s biggest real estate developers - Wan’ke & Country Garden.
• Cities with Skyrail Contracts:
  Shenzhen; Shantou (250 km/156 miles with 5 years); Xi’an (>100 km/60 miles ); Bengbu; Guang’an; Jilin; Tianjin etc.;

Diversified Applications
• An effective complement to large cities’ subway networks.
• The primary mode of public transit for small and medium-sized cities.
• Connections between suburban neighborhoods or main commuting lines linking large cities with surrounding townships.
• Exhibitions, conventions and scenic sightseeing routes.

Specifications

<table>
<thead>
<tr>
<th>Item</th>
<th>Model</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rated Voltage (V)</td>
<td>Mc (end car)</td>
</tr>
<tr>
<td></td>
<td>M (mid car)</td>
</tr>
<tr>
<td>Car Length</td>
<td>12 m (39.3 ft)</td>
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<tr>
<td></td>
<td>12 m (39.3 ft)</td>
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<tr>
<td>Car Width</td>
<td>3.15 m (10.3 ft)</td>
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<tr>
<td></td>
<td>3.15 m (10.3 ft)</td>
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<tr>
<td>Width of Rail Beam</td>
<td>0.7 m (2.3 ft)</td>
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<tr>
<td></td>
<td>0.7 m (2.3 ft)</td>
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<tr>
<td>Minimum clear span between cars</td>
<td>9.13 m (30 ft)</td>
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<tr>
<td></td>
<td>9.13 m (30 ft)</td>
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<tr>
<td>Seats per Carriage (passenger)</td>
<td>16</td>
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<tr>
<td></td>
<td>18</td>
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<tr>
<td>Full Load Capacity (passenger) (AW3)</td>
<td>Mc</td>
</tr>
<tr>
<td></td>
<td>M (mid car)</td>
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<tr>
<td>Curb Weight</td>
<td>14,000 kg (30,865 lbs)</td>
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<tr>
<td>Full Load</td>
<td>30,000 kg (66,139 lbs)</td>
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<td>Design Top Speed</td>
<td>85 km/h (53 mph)</td>
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<td>85 km/h (53 mph)</td>
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<tr>
<td>Operational Top Speed</td>
<td>80 km/h (50 mph)</td>
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<td>80 km/h (50 mph)</td>
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<tr>
<td>Max. Gradeability</td>
<td>10 %</td>
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<tr>
<td></td>
<td>10 %</td>
</tr>
<tr>
<td>Min. Turning Radius</td>
<td>40 m (131 ft)</td>
</tr>
<tr>
<td></td>
<td>40 m (131 ft)</td>
</tr>
</tbody>
</table>

Note:
1. AW3: Stand Passengers 5’ / 4’ All Seats
2. All information based on the latest data at the time of printing. Final specs subject to change at production.

1,000 ENGINEERS
5 YEARS OF R&D DEVELOPMENT
$1 BILLION (USD) TECHNOLOGY INVESTMENT
BYD AT A GLANCE

- Over 220,000 employees and 33 industrial parks worldwide.
- 4 core businesses: Electronics, New Energy, Auto, Rail Transit.
- 2016 group revenue: over $15 billion (USD).
- Over 20 years of experience in battery research and development.
- Manufacutes the world’s safest rechargeable long cycle life batteries.
- World’s Largest EV manufacturer.

BYD solar projects in almost 30 countries on 6 continents.

A PIONEER IN PROVIDING A NEW ENERGY ECOSYSTEM FROM POWER GENERATION TO STORAGE TO USAGE

- Battery Storage
  Battery storage captures generated solar power and makes it available 24 hours/day, rain or shine. Covering over 50% of the U.S. energy storage market for frequency regulation in 2015.
- Solar
  BYD solar projects in almost 30 countries on 6 continents.
- Electrified Transportation
  Largest passenger EV market share worldwide. The first and only company in the world to provide 7+4 Full Market EV solutions.

BUILD YOUR DREAMS

$15 billion
2016 group revenue: over $15 billion (USD)

220,000
employees