Introduction of Beijing Metro Planning and Construction

北京市基础设施投资有限公司
Beijing Infrastructure Investment Co.,Ltd
Finance & Planning Department
General Manager
Yuhang Ren
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BII - Introduction of our company

Beijing Infrastructure Investment Co., Ltd. (BII) is a state-owned enterprise wholly invested by the Beijing Municipal government to undertake the investment and financing for urban rail transport and other infrastructure projects, pre-planning and related resources development and management.

Until the end of 2016, BII has been a comprehensive investment company with RMB 90.9 billion of registered capital, RMB 140.4 billion of net assets, RMB 404.0 billion of total assets.
2. 北京轨道交通规划与建设

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Introduction of Beijing

Beijing: Political, Economic & Cultural Center of China

The Forbidden City – Abundant Historical Heritages
Metropolitan Beijing

Municipalities: 16
Area: 16410 km²
Inhabitant: 20.69 million

City Beijing
Area: 1085 km²
Inhabitant: 9 million
Urban Traffic

Public Transportation takes about 40% of the trips in which Rail Transport accounts for 40%, while more than 5 million motor vehicles.
Introduction of Beijing Metro Planning

Beijing, the capital of China with lots of breathtaking architectural wonders of the world always shocked the world for its fast development of economy along with the plague of increasing traffic congestion.

Now the high-speed development of rail transport has been alleviating this problem. The world's largest three-dimensional rail network being implemented will shock the world again.
Introduction of Beijing Metro Planning

The principle of rail transport building in Beijing is to plan as a whole picture and to invest step by step. The rail transport and large transportation hubs such as Beijing Railway Station, Beijing West Railway Station, Beijing South Railway Station, Beijing North Railway Station, Beijing Capital International Airport has made Beijing a friendly city with its more and more convenient public traffic.
Introduction of Beijing Metro Planning

Currently there are 326km under construction, 119 km in planning. The total length of these 31 lines will reach 999km in 2020. We are making efforts to achieve the goal of 900 kilometres in 2020.
（Metro Construction & Management in BJ）

市发改委：拟订固定资产投资总规模；统筹安排市财政性建设资金，审定并实施市政府投资计划；审批地铁建设项目等
Beijing Municipal Commission of Development & Reform

市规划委：规划研究、选址论证和审查；建设工程规划实施的监督管理等
Planning Committee

市交通委：负责地铁运输行业管理和安全生产监管、安全应急的组织协调等
Beijing Municipal Commission of Transport

京投公司：负责地体投资事宜，以及项目立项、可行性研究等
BII

建管公司：负责新建线路设计、施工、设备安装及系统调试、开通、验收等
Construction Management Company

运营公司：负责受托地铁线路运营管理、商贸等经营活动
Operating Company

北京地铁
Metro in Beijing
Investment Model of BJ Metro

Government Funding

政府资金投入

Loan by BII

公司借贷

政府以服务经营权模式兴建

BOT/PPP
北京轨道交通建设的主要特点

Characters of Beijing Metro Construction
Principles of Construction

便捷性 Convenient

安全性 Safe

舒适性 Comfortable

绿色环保 Green

可持续 Sustainable
There are two models of rail car with 6-8 of which to make a train. All lines are operated independently in the right-hand lane regulation.

Rolling Stock

Module A is 22.0m long, 3.0m wide, DC1500V catenary granted power. Module B, 19.6m long, 2.8m wide, DC750V three-track power with VVVF technology and regenerative braking system is the main model of rail car with autopilot and air conditioner equipped.

30% of the equipment supplied by foreign manufacturers.
CBTC列车控制系统：保证列车运行高效、安全

CBTC train control system: Ensure trains run more efficiently and safely
Automatic Fare Collection (AFC)
More user-friendly design to meet the demand of rail transport such as better air conditioning, fire, escalators, commercial communications, passenger information systems, advertising, orientation, disabled facilities.
Engineering Machinery

Shield

Diaphragm Wall Machinery

Rotary drilling rig
Traffic Control Center (TCC) Coordination, scheduling, management, command of rail transit operation, including a concentrated operating control center (OCC) of 30 lines.
Station

Functional design: capacity of stations, traffic flow line design, transferring type, transferring distance, channel design, facilities
车站 Station
车站 Station
车站  Station
车站  Station
交通衔接设施的设计
Joining Traffic Facility Design

自行车与轨道交通换乘设施

一、建设步行体系
建设地下步行空间，构建城市
地下步行网络

P+R停车场
Integrated Development of Depot

五路居车辆段立体化开发
(Superstructure Project at Wulu M6)

郭公庄车辆段立体化开发
(Superstructure Project at Guogongzhuang M9)
欢迎各位同行参与北京轨道交通建设
Welcome to join our rail transport building.

Thank You!

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