Infrastructure Management





Guangdong **Road Network**

- Expressway
- Grade 1 Highway
- Grade 2 Highway

Southern Guangdong

	1. Guangzhou City Northern Ring Road			2. Beijing – Zhuhai Expressway (Guangzhou – Zhuhai Section)			
NWSH's Attributable Interest	65.29%			25%			
Form of Investment	CJV			CJV			
Length	22km			Section I: 8.6km			
•				Section II: 53.8km			
Lanes	Dual 3-Lane			Section I: Dual 3-L	.ane		
				Section II: Dual 3-L	ane / Dua	2-Lane	
Location	Guangzhou	City		Guangdong Provir	nce		
Operation Date	January 199	,		Section I: May 199			
				Section II: Decemb			
Expiry Date	2023			2030			
Current Toll Rates	Rmb2 – Rmb	.75		Section I: Rmb2.8	1 Pmh17	62	
Current foil Rates	KIIIDZ – KIIIL	773		Section II: Rmb5 –		.02	
	2002	2002	2004			2004	
	2003	2002	2001	2003	2002	2001	
Ave. Daily Traffic Flow	117,217	120,556	130,747	Section I: 31,513	-	24,912	
				Section II: 29,039	24,926	20,079	

Western Guangdong

		3. Roadway No. 321 (Fengkai Section)			4. Roadway No. 321 (Deqing Section)			5. Roadway No. 321 (Gaoyao Section)		
NWSH's Attributable Interest	45%			45%			55%			
Form of Investment	CIV	1 111			CJV			CJV		
Length	42km				79km			23.8km		
Lanes	Dual 2-La	Dual 2-Lane			ne		Dual 2-Lar	Dual 2-Lane		
Location	Fengkai C	Fengkai County December 1994 2019			Deging County September 1995 2020			Gaoyao City August 1998 2019		
Operation Date										
Expiry Date	2019									
Current Toll Rates	Rmb2 – Ri	Rmb2 – Rmb60		Rmb3 – Rr	Rmb3 – Rmb70		Rmb2 – Rr	Rmb2 – Rmb30		
	2003				2002	2001	2003	2002	2001	
Ave. Daily Traffic Flow	4,899	5,346	5,135	5,907	6,342	6,023	8,506	9,332	8,954	
	6. Road	6. Roadway No. 1962		7. Roadway No. 1958		8. Roadway No. 324				
	(Gad	yao Section)	(Dec	ing Section	1)	(Gad	oyao Section	1)	
NWSH's Attributable Interest	60%			65%			40%			
Form of Investment	CIV			CJV			CIV			
Length	32.4km			30km			24km			
Lanes	Dual 1-La	Dual 1-Lane			Dual 1-Lane			Dual 2-Lane		
Location	Gaovao C	Gaoyao City			Deging County			Gaoyao City		
Operation Date		August 1998			May 1999			February 1994		
Expiry Date	2026			2023			2015			
Current Toll Rates	Rmb2 – Ri	Rmb2 – Rmb25		Rmb2 – Rmb25			Rmb2 – Rmb30			
	2003	2002	2001	2003	2002	2001	2003	2002	2001	
						639	9.644	9,079	8.779	



Operation Date

Current Toll Rates

Ave. Daily Traffic Flow

Expiry Date

June 1993

Rmb15 - Rmb85

2002

7,314

2027

2003

11,375

→ Project Key Facts and Figures — Infrastructure Management

	9. Roadway No. 1969 (Gaoyao Section)	10. Roadway No. 1964 (Zhaojiang Section)	11. Shuangjin Roadway (Gaoyao Section)		
NWSH's Attributable Interest Form of Investment Length Lanes Location Operation Date Expiry Date Current Toll Rates Ave. Daily Traffic Flow	(Gaoyao Section) 10% / 58% CJV 27km Dual 1-Lane Gaoyao City January 1998 2024 Rmb2 – Rmb25 2003 2,303 2,462 2,452	70% CJV 32km Dual 2-Lane Gaoyao City December 1995 2019 Rmb2 – Rmb30 2003 2002 6,519 6,424 6,185	61% CJV 34km Dual 1-Lane Gaoyao City September 1997 2024 Rmb2 – Rmb20 2003 2002 213 867 1,55		
Northern Guangdon	g				
	12. Roadway No. 1959 (Qingxin Section)	13. Roadway No. 1906 (Qingcheng Section)	14. Roadway No. 1960 (Guangning Section)		
NWSH's Attributable Interest Form of Investment Length Lanes Location Operation Date Expiry Date Current Toll Rates Ave. Daily Traffic Flow	75% CJV 26.6km Dual 2-Lane Qingxin County, Qingyuan City November 1998 2027 Rmb2 – Rmb25 2003 2002 2001 3,592 3,879	80% CJV 26.8km Dual 2-Lane Qingcheng District, Qingyuan City September 2001 2028 Rmb2 - Rmb20 2003 2002 2001 3,569 2,909 N/A	55% CJV 60km Dual 1-Lane Guangning County July 1996 2020 Rmb2 – Rmb60 2003 2002 200 4,717 4,607 4,40		
	15. Roadway No. 1960 (Sihui Section)	16. Roadway No. 1962 (Guangning Section)			
NWSH's Attributable Interest Form of Investment Length Lanes Location Operation Date Expiry Date	50% CJV 47km Dual 2-Lane Sihui City Wumagang Bridge Toll Station: January 1996 Shatou Toll Station: June 1996 2021	55% CJV 19.5km (including a 301-metre bridge) Dual 1-Lane Guangning County April 1998			
Current Toll Rates Ave. Daily Traffic Flow	Rmb2 - Rmb60 2003 2002 2001 5,800 5,966 5,655	Rmb2 - Rmb25 2003 2002 2001 795 807 765			
Eastern Guangdong		1			
	17a. Shenzhen-Huizhou Expressway (Huizhou Section)	17b. Shenzhen-Huizhou Roadway (Huizhou Section)	18. Hui-Ao Roadway a. Hui-Dan Section b. Hui-Ao Section		
NWSH's Attributable Interest Form of Investment Length Lanes	33.33% CJV 34.7km Dual 2-Lane	50% CJV 21.8km Dual 2-Lane	50% CJV Hui-Dan Section: 36km Hui-Ao Section: 50.5km Hui-Dan Section: Dual 1-Lane		
Location Operation Date	Huizhou City	Huizhou City December 1997	Hui-Ao Section: Dual 2-Lane Hui-Dan Section: January 1996		

December 1997

Rmb1 – Rmb25

2002

11,979

2001

11,383

2023

2003

11,529

2001

6,312

Hui-Dan Section: January 1996 Hui-Ao Section: October 2000

2002

5,930

2001

4,062

2028

2003

7,462

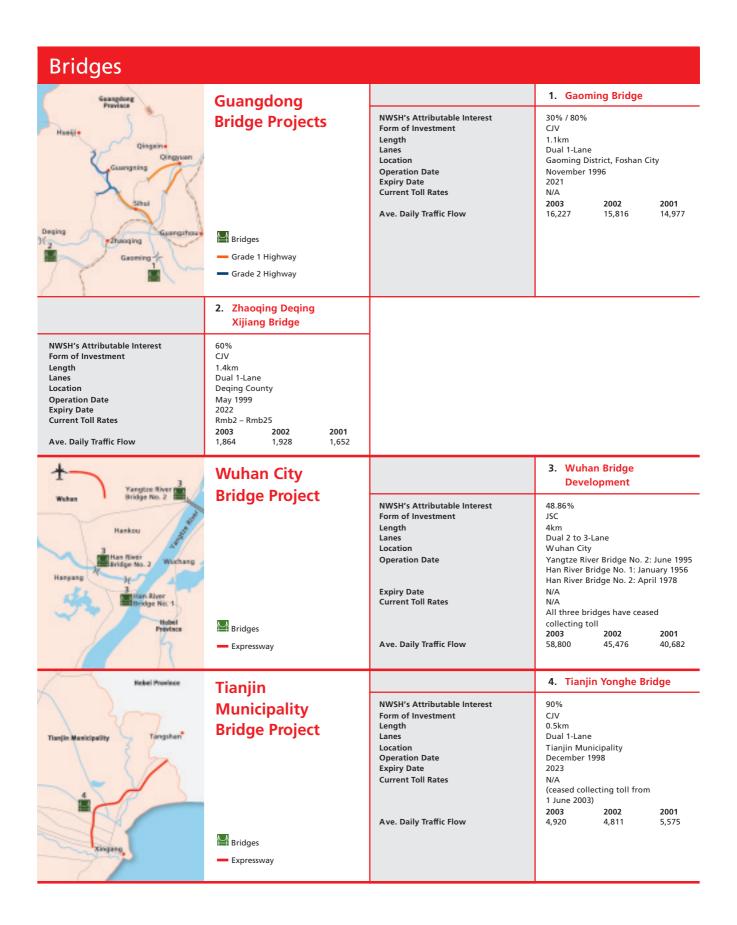
Rmb2 – Rmb25

Galabas Province	Guangxi		19. Beiliu City Roadways
Guergal Antiquestrips Explor 123 21 20 25 Nanring Oprothou Canaptong Previous	Road Network Roads Grade 1 Highway Grade 2 Highway	NWSH's Attributable Interest Form of Investment Length Lanes Location Operation Date Expiry Date Current Toll Rates Ave. Daily Traffic Flow	60% CJV Phase I: 18.2km Phase II: 21.6km Dual 1 to 2-Lane Beiliu City Phase I: August 1997 Phase II: May 1998 2022 Rmb1 – Rmb25 2003 2002 2001 4,501 4,590 5,552
	20. Rongxian Roadways	21. Yulin – Shinan Roadway	22. Yulin Shinan – Dajiangkou Roadway
NWSH's Attributable Interest Form of Investment Length Lanes Location Operation Date Expiry Date Current Toll Rates Ave. Daily Traffic Flow	70% CJV Phase I: 9.2km Phase II: 16.8km Dual 1 to 2-Lane Rongxian Phase II: October 1997 Phase II: May 1998 2022 Rmb1 – Rmb25 2003 2002 2001 4,521 4,289 4,430	60% CJV 27.8km Dual 2-Lane Yulin City May 1998 2022 Rmb1 – Rmb25 2003 2002 5,753 4,937 4,638	60% CJV Phase I: 8.7km Phase II: 30km Dual 1 to 2-Lane Yulin City Phase I: August 1997 Phase II: January 1999 2022 Rmb1 – Rmb25 2003 2002 2,941 2,721 2,415
	23. Yulin Shinan – Guigang Roadway	24. Roadway No. 321 (Wuzhou Section)	25. Cangwu County Roadway
NWSH's Attributable Interest Form of Investment Length Lanes Location Operation Date Expiry Date Current Toll Rates Ave. Daily Traffic Flow	60% CJV 20km Dual 2-Lane Yulin City N/A 2022 N/A N/A	45% CJV Phase I: 8.7km Phase II: 4.3km Dual 2-Lane Wuzhou City Phase I: March 1997 Phase II: December 1998 2022 Rmb2 – Rmb30 2003 2002 2001 4,994 5,558 5,377	70% CJV 10.1km Dual 2 to 3-Lane Cangwu County January 1999 2022 Rmb1 – Rmb22 2003 2002 4,503 5,055 4,990
Inner Mongolia	Shanxi		26. Shanxi Taiyuan – Gujiao Roadway (Taiyuan Section)
Shanzi Prevince 18 Shanzi Province 18 Shanzi Province 18 Shanzi Province 18 Shanzi Province 18 Shanzi Prevince 18 Shanzi Previn	Road Network Roads Grade 1 Highway Grade 2 Highway	NWSH's Attributable Interest Form of Investment Length Lanes Location Operation Date Expiry Date Current Toll Rates Ave. Daily Traffic Flow	60% / 90% CJV 23.18km Dual 1-Lane Taiyuan City July 2000 2025 Rmb10 – Rmb60 (effective from 5 August 2002) 2003 2002 2001 430 630 670



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	27. Shanxi Taiyuan – Gujiao Roadway (Gujiao Section)	28. Roadway No. 309 (Changzhi Section)	29. Taiyuan – Changzhi Roadway (Changzhi Section)
NWSH's Attributable Interest Form of Investment Length Lanes Location Operation Date Expiry Date Current Toll Rates Ave. Daily Traffic Flow	60% / 90% CJV 36.02km Dual 1-Lane Gujiao City April 1999 2025 Rmb10 – Rmb60 (effective from 5 August 2002) 2003 2002 2001 1,019 955 973	60% / 90% CJV 22.2km Dual 1-Lane (16.75km) Dual 2-Lane (5.45km) Changzhi City July 2000 2023 Rmb10 – Rmb60 (effective from 5 August 2002) 2003 2002 2001 1,161 1,087 1,305	60% / 90% CJV 18.3km Dual 1-Lane (4.05km) Dual 2-Lane (14.25km) Changzhi City August 2000 2023 Rmb10 – Rmb70 (effective from 5 August 2002) 2003 2002 2,749 3,682 2,280
30 Wuhan Yangtze River Bridge No. 2	Wuhan City Road Project		30. Wuhan Airport Expressway
Hankou Han River Bridge No. 2 Wuchang Han River Bridge No. 1 Habel Prevince	∕ Roads	NWSH's Attributable Interest Form of Investment Length Lanes Location Operation Date Expiry Date Current Toll Rates Ave. Daily Traffic Flow	40% CJV 18km Dual 2-Lane Wuhan City April 1995 2025 Rmb5 – Rmb50 2003 2002 6,974 6,647 5,700
R	Expressway		31. Tangjin Expressway
Robell Province	Tianjin Municipality		31. Tangjin Expressway (Tianjin North Section)
Timphan Tangshan Tangshan Xingang	Road Project Roads Expressway	NWSH's Attributable Interest Form of Investment Length Lanes Location Operation Date Expiry Date Current Toll Rates Ave. Daily Traffic Flow	90% distributable cash for the first 15 years; 60% of distributable cash for the last 15 years CJV Section I: 43.4km Section II: 17km Dual 2 to 3-Lane Tianjin Municipality Section I: January 1999 Section II: January 2001 Section II: 2028 Section II: 2030 Rmb5 – Rmb110 2003 2002 2001 13,313 10,615 9,235
China	Hong Kong		32. Tate's Cairn Tunnel





→ Project Key Facts and Figures — Infrastructure Management

Energy									
	1. Zhujiang Power Station – Phase I		2. Zhujiang Power Station – Phase II			3. Shunde De Sheng Power Plant			
NWSH's Attributable Interest Form of Investment Installed Capacity Location Type of Power Operation Date Expiry Date Power Generation (GWh)	50% EJV 600MW Nansha Economic Deve Guangzhou City Coal-Fired Thermal January 1994 2017 2003 2002 3,373 3,537	EJV 600MW Nansha Economic Development Zone, Guangzhou City Coal-Fired Thermal January 1994 2017 2003 2002 2001 3,373 3,537 3,148		25% EJV 600MW Nansha Economic Development Zone, Guangzhou City Coal-Fired Thermal April 1996 2020 2003 2002 2003 3,902 3,183 3,335			60% CJV 273.5MW Shunde District, Foshan City, Guangdong Province Oil-Fired Thermal October 1995 2017 2003 2002 2001 1,329 1,349 1,298		
	Power Plant	er ban	J. Wax	au i owei					
NWSH's Attributable Interest Form of Investment Installed Capacity Location Type of Power Operation Date Expiry Date	60% CJV 54MW Qianwei County, Lesha Sichuan Province Coal-Fired Thermal November 1997 2022 2003 2002	19% Equity 488MW One in Macau and Two in Coloane Oil-Fired Thermal November 1985 2010 2003 2002 2001							
Power Generation (GWh)	300 230	2001 199	1,876	1,831	1,735				

Water Treatme	ent & Waste Mana	agement			
	1. Macao Water Supply Co. Ltd.	2. Lianjiang Water Plant	3. Zhongshan Tanzhou Water Plant		
NWSH's Attributable Interest Form of Investment Capacity Location Operation Date Expiry Date	42.5% Equity 255,000m³ / day Macau 1985 2010	30% Equity 100,000m³ / day Lianjiang, Guangdong Province N/A 2027	29% Equity 60,000m³ / day Zhongshan, Guangdong Province January 1994 2027		
	4. Zhongshan Dafeng Water Plant	5. Zhongshan Quanlu Water Plant	6. Dongguan Microfiltraton Equipment Plant		
NWSH's Attributable Interest Form of Investment Capacity Location Operation Date Expiry Date	33.06% Equity 200,000m³ / day Zhongshan, Guangdong Province April 1998 2020	33.06% Equity 500,000m³ / day Zhongshan, Guangdong Province April 1998 2020	25% Equity N/A Dongguan, Guangdong Province September 1995 2014		
	7. Nanchang Water Plant	8. Baoding Water Plant	9. Siping Water Plant		
NWSH's Attributable Interest Form of Investment Capacity Location Operation Date Expiry Date	25% Equity 50,000m³ / day Nanchang, Jiangxi Province January 1996 2023	45% Equity 260,000m³ / day Baoding, Hebei Province June 2000 2020	25% Equity 118,000m ³ / day Siping, Jilin Province September 2000 2030		
	10. Zhengzhou Water Plant	11. Xinchang Water Plant	12. Changtu Water Plant		
NWSH's Attributable Interest Form of Investment Capacity Location Operation Date Expiry Date	25% Equity 360,000m³ / day Zhengzhou, Henan Province August 2001 2031	25% Equity 100,000m³ / day Xinchang, Zhejiang Province March 2002 2032	35% Equity 50,000m³ / day Tieling, Liaoning Province December 2000 2029		
	13. Panjin Water Plant	14. Shanghai Spark Water Plant	15. Shanghai SCIP Waste Water Plant		
NWSH's Attributable Interest Form of Investment Capacity Location Operation Date Expiry Date	30% Equity 110,000m³ / day Panjin, Liaoning Province April 2002 2032	25% Equity 100,000m³ / day Shanghai January 2002 2031	25% Equity Wastewater: 50,000m³ / day Industrial water: 200,000m³ / day Shanghai December 2003 (Estimate) 2052		
	16. Qingdao Water Plant	17. Chongqing Water Plant	18. Shanghai SCIP Waste Incineration Plant		
NWSH's Attributable Interest Form of Investment Capacity Location Operation Date Expiry Date	25% Equity 543,000m³ / day Qingdao, Shandong Province August 2002 2027	30% Equity 275,000m³ / day Chongqing November 2002 2052	10% Equity 50,000-60,000 tons / year (Estimate) Shanghai May 2006 (Estimate) 2053		