

**Appendix E**

**INTERSTATE RAIL  
NETWORK AUDIT**

**Evaluation Results**



AUSTRALIAN RAIL TRACK CORPORATION LTD

April 2001

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## **1. INTRODUCTION**

The results of the economic evaluation are presented in three sections; North-South, East-West and the inland market segments. The presented output is the result of the combined benefit analysis which accrues all of the benefits to all of the users of the market segment. The results are initially presented in summary form with the detailed economic evaluation results following.

## 2. ECONOMIC EVALUATION RESULTS

### 2.1 North - South Market Segments

Table 1 summarises the economic evaluation results for the ATC, S1, So and S2 scenarios for the North - South market segments.

**Table 1 : North – South Economic Evaluation Summary Results (Combined Benefits)**

<i>Present Value (\$ M)</i>		Mel-Syd				Syd-Bne				Mel-Bne			
		ATC	S1	So	S2	ATC	S1	So	S2	ATC	S1	So	S2
Capital costs		(29)	(227)	(294)	(703)	(1,967)	(48)	(66)	(536)	(1,991)	(259)	(361)	(1,250)
Residual values		2	18	23	71	200	4	5	55	202	20	28	127
Infrastructure maintenance costs		-	(38)	(44)	(64)	(52)	(30)	(37)	(47)	(100)	(100)	(134)	(150)
Rail operating cost savings		34	43	49	58	86	43	61	71	117	68	119	110
Non-price customer benefits		12	92	102	145	120	77	91	119	149	155	161	223
Diverted rail benefits		40	188	217	328	290	139	185	246	343	332	438	538
Externalities		30	131	149	205	194	104	134	169	236	243	310	359
Capacity		8	40	45	79	70	31	37	62	85	70	88	130
<b>Results</b>	NPV	96	246	247	119	(1,058)	320	410	136	(955)	530	649	86
	BCR	3.3	2.1	1.8	1.2	0.5	7.7	7.2	1.3	0.5	3.0	2.8	1.1
	IRR	33%	16%	14%	9%	1%	56%	53%	10%	2%	24%	22%	8%

# Melbourne - Sydney Market Segment (Combined Benefits)

Scenario : ATC

Discount Rate		BASE CASE			EXISTING RAIL TONNAGE										DIVERTED RAIL TONNAGE			EXTERNAL BENEFITS					TOTAL COSTS (BENEFITS)					
7%	Year No.	CAPITAL COSTS		INFRASTRUCTURE MAINTENANCE			RAIL OPERATING COSTS					NON-PRICE CUSTOMER BENEFITS					BENEFITS			TOTAL								
Year	Year No.	Capital works	Residual Value	Track Maint	Sig & Coms Maint	Train Control	TOTAL	Crewing	Fuel	R'stock Maint.	R'stock Capital	Terminal+PUD	TOTAL	Reliab-ility	Transit Time	Service Availability	TOTAL	Producer Surplus	Customer Benefit	TOTAL	Road Damage	Air Pollut.	Green. Gases	Cong'tn	Pass. Accidents	TOTAL		
2001	-	-	-	9,203	2,175	890	12,268	4,201	9,889	13,689	11,077	48,857	87,714	-	-	-	-	-	-	-	-	-	-	-	-	-	-	99,982
2002	1	-	-	9,479	2,240	916	12,636	4,327	10,186	14,100	11,410	50,323	90,346	-	-	-	-	-	-	-	-	-	-	-	-	-	102,382	
2003	2	-	-	9,764	2,307	944	13,015	4,457	10,492	14,523	11,752	51,832	93,056	-	-	-	-	-	-	-	-	-	-	-	-	-	106,071	
2004	3	-	-	10,057	2,376	972	13,405	4,591	10,806	14,959	12,105	53,387	95,848	-	-	-	-	-	-	-	-	-	-	-	-	-	109,253	
2005	4	-	-	10,358	2,448	1,001	13,807	4,729	11,131	15,407	12,468	54,989	98,723	-	-	-	-	-	-	-	-	-	-	-	-	-	112,531	
2006	5	-	-	10,660	2,521	1,031	14,222	4,871	11,465	15,870	12,842	56,639	101,685	-	-	-	-	-	-	-	-	-	-	-	-	-	115,907	
2007	6	-	-	10,989	2,597	1,062	14,648	5,017	11,809	16,346	13,227	58,338	104,736	-	-	-	-	-	-	-	-	-	-	-	-	-	119,384	
2008	7	-	-	11,319	2,675	1,094	15,088	5,167	12,163	16,836	13,624	60,088	107,878	-	-	-	-	-	-	-	-	-	-	-	-	-	122,966	
2009	8	-	-	11,659	2,755	1,127	15,540	5,322	12,528	17,341	14,032	61,891	111,114	-	-	-	-	-	-	-	-	-	-	-	-	-	126,655	
2010	9	-	-	12,008	2,837	1,161	16,007	5,482	12,903	17,861	14,453	63,747	114,448	-	-	-	-	-	-	-	-	-	-	-	-	-	130,454	
2011	10	-	-	12,008	2,837	1,161	16,007	5,482	12,903	17,861	14,453	63,747	114,448	-	-	-	-	-	-	-	-	-	-	-	-	-	130,454	
2012	11	-	-	12,008	2,837	1,161	16,007	5,482	12,903	17,861	14,453	63,747	114,448	-	-	-	-	-	-	-	-	-	-	-	-	-	130,454	
2013	12	-	-	12,008	2,837	1,161	16,007	5,482	12,903	17,861	14,453	63,747	114,448	-	-	-	-	-	-	-	-	-	-	-	-	-	130,454	
2014	13	-	-	12,008	2,837	1,161	16,007	5,482	12,903	17,861	14,453	63,747	114,448	-	-	-	-	-	-	-	-	-	-	-	-	-	130,454	
2015	14	-	-	12,008	2,837	1,161	16,007	5,482	12,903	17,861	14,453	63,747	114,448	-	-	-	-	-	-	-	-	-	-	-	-	-	130,454	
2016	15	-	-	12,008	2,837	1,161	16,007	5,482	12,903	17,861	14,453	63,747	114,448	-	-	-	-	-	-	-	-	-	-	-	-	-	130,454	
2017	16	-	-	12,008	2,837	1,161	16,007	5,482	12,903	17,861	14,453	63,747	114,448	-	-	-	-	-	-	-	-	-	-	-	-	-	130,454	
2018	17	-	-	12,008	2,837	1,161	16,007	5,482	12,903	17,861	14,453	63,747	114,448	-	-	-	-	-	-	-	-	-	-	-	-	-	130,454	
2019	18	-	-	12,008	2,837	1,161	16,007	5,482	12,903	17,861	14,453	63,747	114,448	-	-	-	-	-	-	-	-	-	-	-	-	-	130,454	
2020	19	-	-	12,008	2,837	1,161	16,007	5,482	12,903	17,861	14,453	63,747	114,448	-	-	-	-	-	-	-	-	-	-	-	-	-	130,454	
2021	20	-	-	12,008	2,837	1,161	16,007	5,482	12,903	17,861	14,453	63,747	114,448	-	-	-	-	-	-	-	-	-	-	-	-	-	130,454	
2022	21	-	-	12,008	2,837	1,161	16,007	5,482	12,903	17,861	14,453	63,747	114,448	-	-	-	-	-	-	-	-	-	-	-	-	-	130,454	
2023	22	-	-	12,008	2,837	1,161	16,007	5,482	12,903	17,861	14,453	63,747	114,448	-	-	-	-	-	-	-	-	-	-	-	-	-	130,454	
2024	23	-	-	12,008	2,837	1,161	16,007	5,482	12,903	17,861	14,453	63,747	114,448	-	-	-	-	-	-	-	-	-	-	-	-	-	130,454	
2025	24	-	-	12,008	2,837	1,161	16,007	5,482	12,903	17,861	14,453	63,747	114,448	-	-	-	-	-	-	-	-	-	-	-	-	-	130,454	
2026	25	-	-	12,008	2,837	1,161	16,007	5,482	12,903	17,861	14,453	63,747	114,448	-	-	-	-	-	-	-	-	-	-	-	-	-	130,454	
		-	-	139,701	33,010	13,505	186,216	63,775	150,115	207,795	168,147	741,617	1,331,449	-	-	-	-	-	-	-	-	-	-	-	-	-	1,517,685	

Discount Rate		OPTION			EXISTING RAIL TONNAGE										DIVERTED RAIL TONNAGE			EXTERNAL BENEFITS					TOTAL COSTS (BENEFITS)	TOTAL NET BENEFITS (COSTS)	CAPACITY BENEFITS					
7%	Year No.	Initial Capital	Residual Value	Track Maint	Sig & Coms Maint	Train Control	TOTAL	Crewing	Fuel	R'stock Maint.	R'stock Capital	Terminal+PUD	TOTAL	Reliab-ility	Transit Time	Service Availability	TOTAL	Producer Surplus	Customer Benefit	TOTAL	Road Damage	Air Pollut.	Green. Gases	Cong'tn	Pass. Accidents	TOTAL				
2001	-	8,000	-	9,203	2,175	890	12,268	4,201	9,889	13,689	11,077	48,857	87,714	-	-	-	-	-	-	-	-	-	-	-	-	-	-	107,982	(8,000)	-
2002	1	8,000	-	9,618	2,131	894	12,643	4,156	10,123	13,906	11,157	50,323	89,665	(65)	279	22	236	-	770	39	1,667	356	4	84	1	158	604	108,659	(5,678)	-
2003	2	8,000	-	10,048	2,082	898	13,029	4,103	10,362	14,124	11,232	51,832	91,654	(195)	575	45	486	-	1,587	80	1,667	734	7	174	2	325	1,243	109,287	(3,216)	-
2004	3	8,000	-	10,496	2,029	901	13,427	4,044	10,606	14,342	11,302	53,387	93,681	(208)	889	70	751	-	2,452	123	2,575	1,134	11	269	4	503	1,921	109,862	(608)	-
2005	4	-	-	10,962	1,971	904	13,837	3,977	10,856	14,560	11,365	54,989	95,748	(286)	1,221	96	1,031	-	3,367	169	3,536	1,558	16	369	5	691	2,638	102,380	10,151	-
2006	5	-	-	11,291	2,030	931	14,252	4,097	11,192	14,997	11,706	56,639	98,620	(294)	1,257	99	1,062	-	3,468	174	3,642	1,605	16	380	5	711	2,717	105,451	10,672	216
2007	6	-	-	11,630	2,091	959	14,680	4,220	11,517	15,447	12,057	58,338	101,579	(303)	1,295	102	1,094	-	3,572	180	3,752	1,653	17	391	5	733	2,799	108,615	11,208	439
2008	7	-	-	11,979	2,154	988	15,120	4,346	11,863	15,910	12,419	60,088	104,626	(312)	1,334	105	1,127	-	3,679	185	3,864	1,702	17	403	6	755	2,883	111,873	11,761	668
2009	8	-	-	12,338	2,218	1,018	15,574	4,477	12,218	16,388	12,792	61,891	107,765	(322)	1,374	108	1,160	-	3,790	191	3,980	1,753	18	415	6	777	2,969	115,229	12,330	904
2010	9	-	-	12,708	2,285	1,048	16,041	4,611	12,585	16,879	13,175	63,747	110,998	(331)	1,415	111	1,195	-	3,903	196	4,099	1,806	18	428	6	801	3,058	118,686	12,916	1,148
2011	10	-	-	12,708	2,285	1,048	16,041	4,611	12,585	16,879	13,175	63,747	110,998	(331)	1,415	111	1,195	-	3,903	196	4,099	1,806	18	428	6	801	3,058	118,686	12,916	1,148
2012	11	-	-	12,708	2,285	1,048	16,041	4,611	12,585	16,879	13,175	63,747	110,998	(331)	1,415	111	1,195	-	3,903	196	4,099	1,806	18	428	6	801	3,058	118,686	12,916	1,148
2013	12	-	-	12,708	2,285	1,048	16,041	4,611	12,585	16,879	13,175	63,747	110,998	(331)	1,415	111	1,195	-	3,903	196	4,099	1,806	18	428	6	801	3,058	118,686	12,916	1,148
2014	13	-	-	12,708	2,285	1,048	16,041	4,611	12,585	16,879	13,175	63,747	110,998	(331)	1,415	111	1,195	-	3,903	196	4,099	1,806	18	428	6	801	3,058	118,686	12,916	1,148
2015	14	-	-	12,708	2,285	1,048	16,041	4,611	12,585	16,879	13,175	63,747	110,998	(331)	1,415	111	1,195	-	3,903	196	4,099	1,806	18	428	6	801	3,058	118,686	12,916	1,148
2016	15	-	-	12,708	2,285	1,048	16,041	4,611	12,585	16,879	13,175	63,747	110,998	(331)	1,415	111	1,195	-	3,903	196	4,099	1,806	18	428	6	801	3,058	118,686	12,916	1,148
2017	16	-	-	12,708	2,285	1,048	16,041	4,611	12,585	16,879	13,175	63,747	110,998	(331)	1,415	111	1,195	-	3,903	196	4,099	1,806	18	428	6	801	3,058	118,686	12,916	1,148
2018	17	-	-	12,708	2,285	1,048	16,041	4,611	12,585	16,879	13,175	63,747	110,998	(331)	1,415	111	1,195	-	3,903	196	4,099	1,806	18	428	6	801	3,058	118,686	12,916	1,148
2019	18	-	-	12,708	2,285	1,048	16,041	4,611	12,585	16,879	13,175	63,747	110,998	(331)	1,415	111	1,195	-	3,903	196	4,099	1,806	18	428	6	801	3,058	118,686	12,916	1,148
2020	19	-	-	12,708	2,285	1,048	16,041	4,611	12,585	16,879	13,175	63,747	110,998	(331)	1,415	111	1,195	-	3,903	19										

# Melbourne - Sydney Market Segment (Combined Benefits)

Scenario : S1

Discount Rate		7%		Year No.		CAPITAL COSTS		INFRASTRUCTURE MAINTENANCE			EXISTING RAIL TONNAGE					NON-PRICE CUSTOMER BENEFITS			DIVERTED RAIL TONNAGE			EXTERNAL BENEFITS					TOTAL COSTS (BENEFITS)	
Year	Year No.	Capital works	Residual Value	Track Maint	Sig & Coms Maint	Train Control	TOTAL	Crewing	Fuel	R'stock Maint.	R'stock Capital	Terminal+ PUD	TOTAL	Reliab- ility	Transit Time	Service Availability	TOTAL	Producer Surplus	Customer Benefit	TOTAL	Road Damage	Air Pollut.	Green. Gases	Cong'n	Pass. Accidents	TOTAL	TOTAL COSTS (BENEFITS)	
2001	-	-	-	9,203	2,175	890	12,268	4,201	9,889	13,689	11,077	48,857	87,714	-	-	-	-	-	-	-	-	-	-	-	-	-	-	99,982
2002	1	-	-	9,479	2,240	916	12,636	4,327	10,186	14,100	11,410	50,323	90,346	-	-	-	-	-	-	-	-	-	-	-	-	-	-	102,982
2003	2	-	-	9,764	2,307	944	13,015	4,457	10,492	14,523	11,752	51,832	93,056	-	-	-	-	-	-	-	-	-	-	-	-	-	-	106,071
2004	3	-	-	10,057	2,376	972	13,405	4,591	10,806	14,959	12,105	53,387	95,848	-	-	-	-	-	-	-	-	-	-	-	-	-	-	109,253
2005	4	-	-	10,358	2,448	1,001	13,807	4,729	11,131	15,407	12,468	54,989	98,723	-	-	-	-	-	-	-	-	-	-	-	-	-	-	112,531
2006	5	-	-	10,669	2,521	1,031	14,222	4,871	11,465	15,870	12,842	56,639	101,685	-	-	-	-	-	-	-	-	-	-	-	-	-	-	115,907
2007	6	-	-	10,989	2,597	1,062	14,648	5,017	11,809	16,346	13,227	58,338	104,736	-	-	-	-	-	-	-	-	-	-	-	-	-	-	119,384
2008	7	-	-	11,319	2,675	1,094	15,088	5,167	12,163	16,836	13,624	60,088	107,878	-	-	-	-	-	-	-	-	-	-	-	-	-	-	122,966
2009	8	-	-	11,659	2,755	1,127	15,540	5,322	12,528	17,341	14,032	61,891	111,114	-	-	-	-	-	-	-	-	-	-	-	-	-	-	126,655
2010	9	-	-	12,008	2,837	1,161	16,007	5,482	12,903	17,861	14,453	63,747	114,448	-	-	-	-	-	-	-	-	-	-	-	-	-	-	130,454
2011	10	-	-	12,008	2,837	1,161	16,007	5,482	12,903	17,861	14,453	63,747	114,448	-	-	-	-	-	-	-	-	-	-	-	-	-	-	130,454
2012	11	-	-	12,008	2,837	1,161	16,007	5,482	12,903	17,861	14,453	63,747	114,448	-	-	-	-	-	-	-	-	-	-	-	-	-	-	130,454
2013	12	-	-	12,008	2,837	1,161	16,007	5,482	12,903	17,861	14,453	63,747	114,448	-	-	-	-	-	-	-	-	-	-	-	-	-	-	130,454
2014	13	-	-	12,008	2,837	1,161	16,007	5,482	12,903	17,861	14,453	63,747	114,448	-	-	-	-	-	-	-	-	-	-	-	-	-	-	130,454
2015	14	-	-	12,008	2,837	1,161	16,007	5,482	12,903	17,861	14,453	63,747	114,448	-	-	-	-	-	-	-	-	-	-	-	-	-	-	130,454
2016	15	-	-	12,008	2,837	1,161	16,007	5,482	12,903	17,861	14,453	63,747	114,448	-	-	-	-	-	-	-	-	-	-	-	-	-	-	130,454
2017	16	-	-	12,008	2,837	1,161	16,007	5,482	12,903	17,861	14,453	63,747	114,448	-	-	-	-	-	-	-	-	-	-	-	-	-	-	130,454
2018	17	-	-	12,008	2,837	1,161	16,007	5,482	12,903	17,861	14,453	63,747	114,448	-	-	-	-	-	-	-	-	-	-	-	-	-	-	130,454
2019	18	-	-	12,008	2,837	1,161	16,007	5,482	12,903	17,861	14,453	63,747	114,448	-	-	-	-	-	-	-	-	-	-	-	-	-	-	130,454
2020	19	-	-	12,008	2,837	1,161	16,007	5,482	12,903	17,861	14,453	63,747	114,448	-	-	-	-	-	-	-	-	-	-	-	-	-	-	130,454
2021	20	-	-	12,008	2,837	1,161	16,007	5,482	12,903	17,861	14,453	63,747	114,448	-	-	-	-	-	-	-	-	-	-	-	-	-	-	130,454
2022	21	-	-	12,008	2,837	1,161	16,007	5,482	12,903	17,861	14,453	63,747	114,448	-	-	-	-	-	-	-	-	-	-	-	-	-	-	130,454
2023	22	-	-	12,008	2,837	1,161	16,007	5,482	12,903	17,861	14,453	63,747	114,448	-	-	-	-	-	-	-	-	-	-	-	-	-	-	130,454
2024	23	-	-	12,008	2,837	1,161	16,007	5,482	12,903	17,861	14,453	63,747	114,448	-	-	-	-	-	-	-	-	-	-	-	-	-	-	130,454
2025	24	-	-	12,008	2,837	1,161	16,007	5,482	12,903	17,861	14,453	63,747	114,448	-	-	-	-	-	-	-	-	-	-	-	-	-	-	130,454
2026	25	-	-	12,008	2,837	1,161	16,007	5,482	12,903	17,861	14,453	63,747	114,448	-	-	-	-	-	-	-	-	-	-	-	-	-	-	130,454
		-	-	139,701	33,010	13,505	186,216	63,775	150,115	207,795	168,147	741,617	1,331,449	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1,517,665

Discount Rate		7%		Year No.		CAPITAL COSTS		INFRASTRUCTURE MAINTENANCE			EXISTING RAIL TONNAGE					NON-PRICE CUSTOMER BENEFITS			DIVERTED RAIL TONNAGE			EXTERNAL BENEFITS					TOTAL COSTS (BENEFITS)	TOTAL NET BENEFITS (COSTS)	CAPACITY BENEFITS	
Year	Year No.	Initial Capital	Residual Value	Track Maint	Sig & Coms Maint	Train Control	TOTAL	Crewing	Fuel	R'stock Maint.	R'stock Capital	Terminal+ PUD	TOTAL	Reliab- ility	Transit Time	Service Availability	TOTAL	Producer Surplus	Customer Benefit	TOTAL	Road Damage	Air Pollut.	Green. Gases	Cong'n	Pass. Accidents	TOTAL	TOTAL COSTS (BENEFITS)	TOTAL NET BENEFITS (COSTS)	CAPACITY BENEFITS	
2001	-	62,500	-	9,203	2,175	890	12,268	4,201	9,889	13,689	11,077	48,857	87,714	-	-	-	-	-	-	-	-	-	-	-	-	-	-	162,482	(62,500)	-
2002	1	62,500	-	10,234	2,253	922	13,409	4,093	10,123	13,885	11,056	50,323	89,470	-	-	-	1,848	-	3,132	664	3,796	1,569	16	370	5	692	2,643	157,093	(54,111)	-
2003	2	62,500	-	11,318	2,333	956	14,607	3,954	10,361	14,081	11,024	51,832	91,252	-	-	-	3,806	-	6,452	1,367	7,819	3,212	33	762	11	1,425	5,444	151,290	(45,219)	-
2004	3	62,500	-	12,458	2,417	990	15,865	3,814	10,605	14,276	10,979	53,387	93,061	-	-	-	5,881	-	9,969	2,112	12,081	4,963	51	1,177	17	2,201	14,054	(35,801)	-	
2005	4	-	-	13,656	2,503	1,026	17,186	3,662	10,853	14,469	10,923	54,989	94,896	-	-	-	8,077	-	13,691	2,900	16,591	6,816	71	1,616	23	3,023	11,550	75,864	36,667	-
2006	5	-	-	14,066	2,578	1,057	17,701	3,771	11,179	14,904	11,250	56,639	97,743	-	-	-	8,319	-	14,101	2,987	17,089	7,021	73	1,665	24	3,114	11,897	78,140	38,854	1,087
2007	6	-	-	14,488	2,656	1,089	18,232	3,885	11,514	15,351	11,588	58,338	100,675	-	-	-	8,568	-	14,524	3,077	17,602	7,231	75	1,715	25	3,207	12,254	80,484	41,106	2,206
2008	7	-	-	14,922	2,736	1,122	18,779	4,001	11,960	15,811	11,935	60,088	103,695	-	-	-	8,826	-	14,960	3,169	18,130	7,448	77	1,766	26	3,304	12,621	82,898	43,426	3,358
2009	8	-	-	15,370	2,818	1,155	19,343	4,121	12,216	16,285	12,233	61,891	106,806	-	-	-	9,090	-	15,409	3,264	18,674	7,672	80	1,819	26	3,403	13,000	85,385	45,815	4,546
2010	9	-	-	15,831	2,902	1,190	19,923	4,245	12,582	16,774	12,662	63,747	110,010	-	-	-	9,363	-	15,871	3,362	19,234	7,902	82	1,874	27	3,505	13,390	87,947	48,276	5,769
2011	10	-	-	15,831	2,902	1,190	19,923	4,245	12,582	16,774	12,662	63,747	110,010	-	-	-	9,363	-	15,871	3,362	19,234	7,902	82	1,874	27	3,505	13,390	87,947	48,276	5,769
2012	11	-	-	15,831	2,902	1,190	19,923	4,245	12,582	16,774	12,662	63,747	110,010	-	-	-	9,363	-	15,871	3,362	19,234	7,902	82	1,874	27	3,505	13,390	87,947	48,276	5,769
2013	12	-	-	15,831	2,902	1,190	19,923	4,245	12,582	16,774	12,662	63,747	110,010	-	-	-	9,363	-	15,871	3,362	19,234	7,902	82	1,874	27	3,505	13,390	87,947	48,276	5,769
2014	13	-	-	15,831	2,902	1,190	19,923	4,245	12,582	16,774	12,662	63,747	110,010	-	-	-	9,363	-	15,871	3,362	19,234	7,902	82	1,874	27	3,505	13,390	87,947	48,276	5,769
2015	14	-	-	15,831	2,902	1,190	19,923	4,245	12,582	16,774	12,662	63,747	110,010	-	-	-	9,363	-	15,871	3,362	19,234	7,902	82	1,874	27	3,505	13,390	87,947	48,276	5,769
2016	15	-	-	15,831	2,902	1,190	19,923	4,245	12,582	16,774	12,662	63,747	110,010	-	-	-	9,363	-	15,871	3,362	19,234	7,902	82	1,874	27	3,505	13,390	87,947	48,276	5,769
2017	16	-	-	15,831	2,902	1,190	19,923	4,245	12,582	16,774	12,662	63,747	110,010	-	-	-	9,363	-	15,871	3,362	19,234	7,902	82	1,874	27	3,505	13,390	87,947	48,276	5,769
2018	17	-	-	15,831	2,902	1,190	19,923	4,245	12,582	16,774	12,662	63,747	110,010	-	-	-	9,363	-	15,871	3,362	19,234	7,902	82	1,874	27	3,505	13,390	87,947	48,276	5,769
2019	18	-	-	15,831	2,902	1,190	19,923	4,245	12,582	16,774	12,662	63,747	110,010	-	-	-	9,363	-	15,871	3,362	19,234	7,902	82	1,874	27	3,505	13,390	87,947	48,276	5,769
2020	19	-	-																											

# Melbourne - Sydney Market Segment (Combined Benefits)

Scenario : So

Discount Rate		7%		Year		BASE CASE		INFRASTRUCTURE MAINTENANCE						EXISTING RAIL TONNAGE						NON-PRICE CUSTOMER BENEFITS			DIVERTED RAIL TONNAGE			EXTERNAL BENEFITS					TOTAL COSTS (BENEFITS)
Year	Year No.	Capital works	Residual Value	Track Maint	Sig & Coms Maint	Train Control	TOTAL	Crewing	Fuel	R'stock Maint.	R'stock Capital	Terminal+ PUD	TOTAL	Reliab- ility	Transit Time	Service Availability	TOTAL	Producer Surplus	Customer Benefit	TOTAL	Road Damage	Air Pollut.	Green. Gases	Cong'n	Pass. Accidents	TOTAL	TOTAL COSTS (BENEFITS)				
2001	-	-	-	9,203	2,175	890	12,268	4,201	9,889	13,689	11,077	48,857	87,714	-	-	-	-	-	-	-	-	-	-	-	-	-	-	99,982			
2002	1	-	-	9,479	2,240	916	12,636	4,327	10,186	14,100	11,410	50,323	90,346	-	-	-	-	-	-	-	-	-	-	-	-	-	102,982				
2003	2	-	-	9,764	2,307	944	13,015	4,457	10,492	14,523	11,752	51,832	93,056	-	-	-	-	-	-	-	-	-	-	-	-	-	106,071				
2004	3	-	-	10,057	2,376	972	13,405	4,591	10,806	14,959	12,105	53,387	95,848	-	-	-	-	-	-	-	-	-	-	-	-	-	109,253				
2005	4	-	-	10,358	2,448	1,001	13,807	4,729	11,131	15,407	12,468	54,989	98,723	-	-	-	-	-	-	-	-	-	-	-	-	-	112,531				
2006	5	-	-	10,669	2,521	1,031	14,222	4,871	11,465	15,870	12,842	56,639	101,685	-	-	-	-	-	-	-	-	-	-	-	-	-	115,907				
2007	6	-	-	10,989	2,597	1,062	14,648	5,017	11,809	16,346	13,227	58,338	104,736	-	-	-	-	-	-	-	-	-	-	-	-	-	119,384				
2008	7	-	-	11,319	2,675	1,094	15,088	5,167	12,163	16,836	13,624	60,088	107,878	-	-	-	-	-	-	-	-	-	-	-	-	-	122,966				
2009	8	-	-	11,659	2,755	1,127	15,540	5,322	12,528	17,341	14,032	61,891	111,114	-	-	-	-	-	-	-	-	-	-	-	-	-	126,655				
2010	9	-	-	12,008	2,837	1,161	16,007	5,482	12,903	17,861	14,453	63,747	114,448	-	-	-	-	-	-	-	-	-	-	-	-	-	130,454				
2011	10	-	-	12,008	2,837	1,161	16,007	5,482	12,903	17,861	14,453	63,747	114,448	-	-	-	-	-	-	-	-	-	-	-	-	-	130,454				
2012	11	-	-	12,008	2,837	1,161	16,007	5,482	12,903	17,861	14,453	63,747	114,448	-	-	-	-	-	-	-	-	-	-	-	-	-	130,454				
2013	12	-	-	12,008	2,837	1,161	16,007	5,482	12,903	17,861	14,453	63,747	114,448	-	-	-	-	-	-	-	-	-	-	-	-	-	130,454				
2014	13	-	-	12,008	2,837	1,161	16,007	5,482	12,903	17,861	14,453	63,747	114,448	-	-	-	-	-	-	-	-	-	-	-	-	-	130,454				
2015	14	-	-	12,008	2,837	1,161	16,007	5,482	12,903	17,861	14,453	63,747	114,448	-	-	-	-	-	-	-	-	-	-	-	-	-	130,454				
2016	15	-	-	12,008	2,837	1,161	16,007	5,482	12,903	17,861	14,453	63,747	114,448	-	-	-	-	-	-	-	-	-	-	-	-	-	130,454				
2017	16	-	-	12,008	2,837	1,161	16,007	5,482	12,903	17,861	14,453	63,747	114,448	-	-	-	-	-	-	-	-	-	-	-	-	-	130,454				
2018	17	-	-	12,008	2,837	1,161	16,007	5,482	12,903	17,861	14,453	63,747	114,448	-	-	-	-	-	-	-	-	-	-	-	-	-	130,454				
2019	18	-	-	12,008	2,837	1,161	16,007	5,482	12,903	17,861	14,453	63,747	114,448	-	-	-	-	-	-	-	-	-	-	-	-	-	130,454				
2020	19	-	-	12,008	2,837	1,161	16,007	5,482	12,903	17,861	14,453	63,747	114,448	-	-	-	-	-	-	-	-	-	-	-	-	-	130,454				
2021	20	-	-	12,008	2,837	1,161	16,007	5,482	12,903	17,861	14,453	63,747	114,448	-	-	-	-	-	-	-	-	-	-	-	-	-	130,454				
2022	21	-	-	12,008	2,837	1,161	16,007	5,482	12,903	17,861	14,453	63,747	114,448	-	-	-	-	-	-	-	-	-	-	-	-	-	130,454				
2023	22	-	-	12,008	2,837	1,161	16,007	5,482	12,903	17,861	14,453	63,747	114,448	-	-	-	-	-	-	-	-	-	-	-	-	-	130,454				
2024	23	-	-	12,008	2,837	1,161	16,007	5,482	12,903	17,861	14,453	63,747	114,448	-	-	-	-	-	-	-	-	-	-	-	-	-	130,454				
2025	24	-	-	12,008	2,837	1,161	16,007	5,482	12,903	17,861	14,453	63,747	114,448	-	-	-	-	-	-	-	-	-	-	-	-	-	130,454				
2026	25	-	-	12,008	2,837	1,161	16,007	5,482	12,903	17,861	14,453	63,747	114,448	-	-	-	-	-	-	-	-	-	-	-	-	-	130,454				
				139,701	33,010	13,505	186,216	63,775	150,115	207,795	168,147	741,617	1,331,449	-	-	-	-	-	-	-	-	-	-	-	-	-	1,517,665				

Discount Rate		7%		Year		OPTION		INFRASTRUCTURE MAINTENANCE						EXISTING RAIL TONNAGE						NON-PRICE CUSTOMER BENEFITS			DIVERTED RAIL TONNAGE			EXTERNAL BENEFITS					TOTAL COSTS (BENEFITS)	TOTAL NET BENEFITS (COSTS)	CAPACITY BENEFITS
Year	Year No.	Initial Capital	Residual Value	Track Maint	Sig & Coms Maint	Train Control	TOTAL	Crewing	Fuel	R'stock Maint.	R'stock Capital	Terminal+ PUD	TOTAL	Reliab- ility	Transit Time	Service Availability	TOTAL	Producer Surplus	Customer Benefit	TOTAL	Road Damage	Air Pollut.	Green. Gases	Cong'n	Pass. Accidents	TOTAL	TOTAL COSTS (BENEFITS)	TOTAL NET BENEFITS (COSTS)	CAPACITY BENEFITS				
2001	-	81,250	-	9,203	2,175	890	12,268	4,201	9,889	13,689	11,077	48,857	87,714	-	-	-	-	-	-	-	-	-	-	-	-	-	-	181,232	(81,250)	-			
2002	1	81,250	-	10,339	2,272	920	13,531	4,048	10,120	13,865	11,002	50,323	89,358	766	796	502	2,064	-	3,540	840	4,380	1,767	18	419	6	784	2,995	174,700	(71,719)	-			
2003	2	81,250	-	11,535	2,373	950	14,859	3,882	10,355	14,039	10,913	51,832	91,021	1,578	1,641	1,034	4,252	-	7,292	1,730	9,022	3,640	38	863	13	1,615	6,169	167,686	(61,615)	-			
2004	3	81,250	-	12,793	2,478	982	16,254	3,703	10,595	14,210	10,808	53,387	92,703	2,438	2,535	1,597	6,570	-	11,266	2,673	13,939	5,624	59	1,334	20	2,495	9,531	160,168	(50,914)	-			
2005	4	-	-	14,117	2,588	1,015	17,720	3,509	10,840	14,380	10,687	54,989	94,405	3,348	3,481	2,194	9,023	-	15,471	3,671	19,143	7,724	80	1,832	27	3,426	13,089	170,870	41,661	-			
2006	5	-	-	14,540	2,665	1,045	18,251	3,614	11,165	14,811	11,008	56,639	97,237	3,448	3,586	2,259	9,294	-	15,936	3,781	19,717	7,955	83	1,887	28	3,529	13,482	172,996	44,148	1,238			
2007	6	-	-	14,977	2,745	1,077	18,799	3,723	11,500	15,256	11,307	58,338	100,154	3,552	3,693	2,327	9,524	-	16,414	3,898	20,308	8,194	85	1,944	28	3,635	13,886	175,186	46,711	2,512			
2008	7	-	-	15,426	2,828	1,109	19,363	3,834	11,845	15,713	11,678	60,088	103,159	3,658	3,804	2,397	9,860	-	16,906	4,011	20,918	8,440	88	2,002	29	3,744	14,303	177,441	49,349	3,825			
2009	8	-	-	15,889	2,912	1,142	19,944	3,949	12,200	16,185	12,029	61,891	106,253	3,768	3,918	2,469	10,155	-	17,413	4,132	21,545	8,693	91	2,062	30	3,856	14,732	179,765	52,068	5,178			
2010	9	-	-	16,365	3,000	1,177	20,542	4,068	12,566	16,670	12,389	63,747	109,441	3,881	4,036	2,543	10,460	-	17,936	4,256	22,191	8,954	93	2,124	31	3,972	15,174	182,158	54,867	6,571			
2011	10	-	-	16,365	3,000	1,177	20,542	4,068	12,566	16,670	12,389	63,747	109,441	3,881	4,036	2,543	10,460	-	17,936	4,256	22,191	8,954	93	2,124	31	3,972	15,174	182,158	54,867	6,571			
2012	11	-	-	16,365	3,000	1,177	20,542	4,068	12,566	16,670	12,389	63,747	109,441	3,881	4,036	2,543	10,460	-	17,936	4,256	22,191	8,954	93	2,124	31	3,972	15,174	182,158	54,867	6,571			
2013	12	-	-	16,365	3,000	1,177	20,542	4,068	12,566	16,670	12,389	63,747	109,441	3,881	4,036	2,543	10,460	-	17,936	4,256	22,191	8,954	93	2,124	31	3,972	15,174	182,158	54,867	6,571			
2014	13	-	-	16,365	3,000	1,177	20,542	4,068	12,566	16,670	12,389	63,747	109,441	3,881	4,036	2,543	10,460	-	17,936	4,256	22,191	8,954	93	2,124	31	3,972	15,174	182,158	54,867	6,571			
2015	14	-	-	16,365	3,000	1,177	20,542	4,068	12,566	16,670	12,389	63,747	109,441	3,881	4,036	2,543	10,460	-	17,936	4,256	22,191	8,954	93	2,124	31	3,972	15,174	182,158	54,867	6,571			
2016	15	-	-	16,365	3,000	1,177	20,542	4,068	12,566	16,670	12,389	63,747	109,441	3,881	4,036	2,543	10,460	-	17,936	4,256	22,191	8,954	93	2,124	31	3,972	15,174	182,158	54,867	6,571			
2017	16	-	-	16,365	3,000	1,177	20,542	4,068	12,566	16,670	12,389	63,747	109,441	3,881	4,036	2,543	10,460	-	17,936	4,256	22,191	8,954	93	2,124	31	3,972	15,174	182,158	54,867	6,571			
2018	17	-	-	16,365	3,000	1,177	20,542	4,068	12,566	16,670	12,389	63,747	109,441	3,881	4,036	2,543	10,460	-	17,936	4,256	22,191	8,954	93	2,124	31	3,972	15,174	182,158	54,867	6,571			
2019	18	-	-	16,365	3,000	1,177	20,542	4,068	12,566	16,670	12,389	63,747	109,441	3,881	4,036	2,543	10,4																

# Melbourne - Sydney Market Segment (Combined Benefits)

Scenario : S2

Discount Rate		7%		Year		BASE CASE		INFRASTRUCTURE MAINTENANCE						EXISTING RAIL TONNAGE						NON-PRICE CUSTOMER BENEFITS			DIVERTED RAIL TONNAGE			EXTERNAL BENEFITS					TOTAL COSTS (BENEFITS)
Year	Year No.	Capital	Residual Value	Track Maint	Sig & Coms Maint	Train Control	TOTAL	Crewing	Fuel	R'stock Maint.	R'stock Capital	Terminal+ PUD	TOTAL	Reliab- ility	Transit Time	Service Availability	TOTAL	Producer Surplus	Customer Benefit	TOTAL	Road Damage	Air Pollut.	Green. Gases	Cong'n	Pass. Accidents	TOTAL	TOTAL COSTS (BENEFITS)				
2001	-	-	-	9,203	2,175	890	12,268	4,201	9,889	13,689	11,077	48,857	87,714	-	-	-	-	-	-	-	-	-	-	-	-	-	-	99,982			
2002	1	-	-	9,479	2,240	916	12,636	4,327	10,186	14,100	11,410	50,323	90,346	-	-	-	-	-	-	-	-	-	-	-	-	-	102,982				
2003	2	-	-	9,764	2,307	944	13,015	4,457	10,492	14,523	11,752	51,832	93,056	-	-	-	-	-	-	-	-	-	-	-	-	-	106,071				
2004	3	-	-	10,057	2,376	972	13,405	4,591	10,806	14,959	12,105	53,387	95,848	-	-	-	-	-	-	-	-	-	-	-	-	-	109,253				
2005	4	-	-	10,358	2,448	1,001	13,807	4,729	11,131	15,407	12,468	54,989	98,723	-	-	-	-	-	-	-	-	-	-	-	-	-	112,531				
2006	5	-	-	10,669	2,521	1,031	14,222	4,871	11,465	15,870	12,842	56,639	101,685	-	-	-	-	-	-	-	-	-	-	-	-	-	115,907				
2007	6	-	-	10,989	2,597	1,062	14,648	5,017	11,809	16,346	13,227	58,338	104,736	-	-	-	-	-	-	-	-	-	-	-	-	-	119,384				
2008	7	-	-	11,319	2,675	1,094	15,088	5,167	12,163	16,836	13,624	60,088	107,878	-	-	-	-	-	-	-	-	-	-	-	-	-	122,966				
2009	8	-	-	11,659	2,755	1,127	15,540	5,322	12,528	17,341	14,032	61,891	111,114	-	-	-	-	-	-	-	-	-	-	-	-	-	126,655				
2010	9	-	-	12,008	2,837	1,161	16,007	5,482	12,903	17,861	14,453	63,747	114,448	-	-	-	-	-	-	-	-	-	-	-	-	-	130,454				
2011	10	-	-	12,008	2,837	1,161	16,007	5,482	12,903	17,861	14,453	63,747	114,448	-	-	-	-	-	-	-	-	-	-	-	-	-	130,454				
2012	11	-	-	12,008	2,837	1,161	16,007	5,482	12,903	17,861	14,453	63,747	114,448	-	-	-	-	-	-	-	-	-	-	-	-	-	130,454				
2013	12	-	-	12,008	2,837	1,161	16,007	5,482	12,903	17,861	14,453	63,747	114,448	-	-	-	-	-	-	-	-	-	-	-	-	-	130,454				
2014	13	-	-	12,008	2,837	1,161	16,007	5,482	12,903	17,861	14,453	63,747	114,448	-	-	-	-	-	-	-	-	-	-	-	-	-	130,454				
2015	14	-	-	12,008	2,837	1,161	16,007	5,482	12,903	17,861	14,453	63,747	114,448	-	-	-	-	-	-	-	-	-	-	-	-	-	130,454				
2016	15	-	-	12,008	2,837	1,161	16,007	5,482	12,903	17,861	14,453	63,747	114,448	-	-	-	-	-	-	-	-	-	-	-	-	-	130,454				
2017	16	-	-	12,008	2,837	1,161	16,007	5,482	12,903	17,861	14,453	63,747	114,448	-	-	-	-	-	-	-	-	-	-	-	-	-	130,454				
2018	17	-	-	12,008	2,837	1,161	16,007	5,482	12,903	17,861	14,453	63,747	114,448	-	-	-	-	-	-	-	-	-	-	-	-	-	130,454				
2019	18	-	-	12,008	2,837	1,161	16,007	5,482	12,903	17,861	14,453	63,747	114,448	-	-	-	-	-	-	-	-	-	-	-	-	-	130,454				
2020	19	-	-	12,008	2,837	1,161	16,007	5,482	12,903	17,861	14,453	63,747	114,448	-	-	-	-	-	-	-	-	-	-	-	-	-	130,454				
2021	20	-	-	12,008	2,837	1,161	16,007	5,482	12,903	17,861	14,453	63,747	114,448	-	-	-	-	-	-	-	-	-	-	-	-	-	130,454				
2022	21	-	-	12,008	2,837	1,161	16,007	5,482	12,903	17,861	14,453	63,747	114,448	-	-	-	-	-	-	-	-	-	-	-	-	-	130,454				
2023	22	-	-	12,008	2,837	1,161	16,007	5,482	12,903	17,861	14,453	63,747	114,448	-	-	-	-	-	-	-	-	-	-	-	-	-	130,454				
2024	23	-	-	12,008	2,837	1,161	16,007	5,482	12,903	17,861	14,453	63,747	114,448	-	-	-	-	-	-	-	-	-	-	-	-	-	130,454				
2025	24	-	-	12,008	2,837	1,161	16,007	5,482	12,903	17,861	14,453	63,747	114,448	-	-	-	-	-	-	-	-	-	-	-	-	-	130,454				
2026	25	-	-	12,008	2,837	1,161	16,007	5,482	12,903	17,861	14,453	63,747	114,448	-	-	-	-	-	-	-	-	-	-	-	-	-	130,454				
				139,701	33,010	13,505	186,216	63,775	150,115	207,795	168,147	741,617	1,331,449	-	-	-	-	-	-	-	-	-	-	-	-	-	1,517,665				

Discount Rate		7%		Year		OPTION		INFRASTRUCTURE MAINTENANCE						EXISTING RAIL TONNAGE						NON-PRICE CUSTOMER BENEFITS			DIVERTED RAIL TONNAGE			EXTERNAL BENEFITS					TOTAL COSTS (BENEFITS)	TOTAL NET BENEFITS (COSTS)	CAPACITY BENEFITS
Year	Year No.	Initial Capital	Residual Value	Track Maint	Sig & Coms Maint	Train Control	TOTAL	Crewing	Fuel	R'stock Maint.	R'stock Capital	Terminal+ PUD	TOTAL	Reliab- ility	Transit Time	Service Availability	TOTAL	Producer Surplus	Customer Benefit	TOTAL	Road Damage	Air Pollut.	Green. Gases	Cong'n	Pass. Accidents	TOTAL	TOTAL COSTS (BENEFITS)	TOTAL NET BENEFITS (COSTS)	CAPACITY BENEFITS				
2001	-	100,889	-	9,203	2,175	890	12,268	4,201	9,889	13,689	11,077	48,857	87,714	-	-	-	-	-	-	-	-	-	-	-	-	-	200,871	(100,889)	-				
2002	1	100,889	-	10,118	2,294	917	13,329	4,150	10,147	13,955	11,144	50,323	89,718	630	546	381	1,556	-	2,583	944	3,526	1,304	14	309	5	578	2,209	196,642	(93,660)	-			
2003	2	100,889	-	11,079	2,419	945	14,442	4,092	10,412	14,223	11,205	51,832	91,764	1,299	1,126	785	3,210	-	5,320	1,944	7,264	2,685	28	637	9	1,191	4,551	192,069	(85,998)	-			
2004	3	100,889	-	12,088	2,548	974	15,610	4,026	10,683	14,496	11,259	53,387	93,851	2,006	1,739	1,214	4,959	-	8,220	3,003	11,224	4,149	43	984	15	1,840	7,031	187,136	(77,883)	-			
2005	4	100,889	-	13,148	2,684	1,003	16,836	3,953	10,961	14,772	11,307	54,989	95,981	2,755	2,389	1,667	6,810	-	11,289	4,125	15,414	5,697	60	1,352	20	2,528	9,656	181,825	(69,294)	-			
2006	5	100,889	-	14,261	2,825	1,034	18,120	3,872	11,246	15,051	11,347	56,639	98,154	3,547	3,075	2,146	8,768	-	14,535	5,311	19,845	7,336	77	1,740	26	3,254	12,433	176,117	(58,059)	2,152			
2007	6	100,889	-	15,429	2,973	1,066	19,467	3,782	11,538	15,334	11,380	58,338	100,371	4,385	3,801	2,652	10,838	-	17,965	6,564	24,529	9,067	95	2,151	32	4,022	15,367	169,994	(46,242)	4,368			
2008	7	100,889	-	16,654	3,127	1,098	20,878	3,694	11,838	15,620	11,404	60,088	102,633	5,269	4,568	3,187	13,023	-	21,588	7,888	29,475	10,895	114	2,585	38	4,833	18,466	163,436	(33,819)	6,651			
2009	8	100,889	-	17,938	3,287	1,132	22,357	3,576	12,145	15,910	11,419	61,891	104,941	6,202	5,377	3,751	15,300	-	25,412	9,285	34,697	12,825	134	3,043	45	5,690	21,737	156,423	(20,765)	9,003			
2010	9	-	-	19,285	3,454	1,166	23,905	3,458	12,460	16,203	11,426	63,747	107,294	7,187	6,230	4,347	17,764	-	29,446	10,759	40,205	14,861	156	3,526	52	6,593	25,187	148,043	(93,836)	11,425			
2011	10	-	-	19,285	3,454	1,166	23,905	3,458	12,460	16,203	11,426	63,747	107,294	7,187	6,230	4,347	17,764	-	29,446	10,759	40,205	14,861	156	3,526	52	6,593	25,187	148,043	(93,836)	11,425			
2012	11	-	-	19,285	3,454	1,166	23,905	3,458	12,460	16,203	11,426	63,747	107,294	7,187	6,230	4,347	17,764	-	29,446	10,759	40,205	14,861	156	3,526	52	6,593	25,187	148,043	(93,836)	11,425			
2013	12	-	-	19,285	3,454	1,166	23,905	3,458	12,460	16,203	11,426	63,747	107,294	7,187	6,230	4,347	17,764	-	29,446	10,759	40,205	14,861	156	3,526	52	6,593	25,187	148,043	(93,836)	11,425			
2014	13	-	-	19,285	3,454	1,166	23,905	3,458	12,460	16,203	11,426	63,747	107,294	7,187	6,230	4,347	17,764	-	29,446	10,759	40,205	14,861	156	3,526	52	6,593	25,187	148,043	(93,836)	11,425			
2015	14	-	-	19,285	3,454	1,166	23,905	3,458	12,460	16,203	11,426	63,747	107,294	7,187	6,230	4,347	17,764	-	29,446	10,759	40,205	14,861	156	3,526	52	6,593	25,187	148,043	(93,836)	11,425			
2016	15	-	-	19,285	3,454	1,166	23,905	3,458	12,460	16,203	11,426	63,747	107,294	7,187	6,230	4,347	17,764	-	29,446	10,759	40,205	14,861	156	3,526	52	6,593	25,187	148,043	(93,836)	11,425			
2017	16	-	-	19,285	3,454	1,166	23,905	3,458	12,460	16,203	11,426	63,747	107,294	7,187	6,230	4,347	17,764	-	29,446	10,759	40,205	14,861	156	3,526	52	6,593	25,187	148,043	(93,836)	11,425			
2018	17	-	-	19,285	3,454	1,166	23,905	3,458	12,460	16,203	11,426	63,747	107,294	7,187	6,230	4,347	17,764	-	29,446	10,759	40,205	14,861	156	3,526	52	6,593	25,187	148,043	(93,836)	11,425			
2019	18	-	-	19,285	3,454	1,166	23,905	3,458	12,460	16,203																							



# Sydney - Brisbane Market Segment (Combined Benefits)

Scenario : ATC

Discount Rate		7%		Year		BASE CASE		CAPITAL COSTS		INFRASTRUCTURE MAINTENANCE				EXISTING RAIL TONNAGE					NON-PRICE CUSTOMER BENEFITS			DIVERTED RAIL TONNAGE			EXTERNAL BENEFITS					TOTAL COSTS (BENEFITS)
Year	Year No.	Capital works	Residual Value	Track Maint	Sig & Coms Maint	Train Control	TOTAL	Crewing	Fuel	R'stock Maint.	R'stock Capital	Terminal+ PUD	TOTAL	Reliab-ility	Transit Time	Service Availability	TOTAL	Producer Surplus	Customer Benefit	TOTAL	Road Damage	Air Pollut.	Green. Gases	Cong'n	Pass. Accidents	TOTAL	TOTAL COSTS (BENEFITS)			
2001	-	-	-	8,924	180	1,336	10,441	6,310	12,848	13,040	12,441	46,563	91,201	-	-	-	-	-	-	-	-	-	-	-	-	-	-	101,642		
2002	1	-	-	9,192	186	1,376	10,754	6,500	13,231	13,431	12,814	47,960	93,937	-	-	-	-	-	-	-	-	-	-	-	-	-	-	104,691		
2003	2	-	-	9,468	191	1,418	11,077	6,695	13,628	13,834	13,199	49,399	96,755	-	-	-	-	-	-	-	-	-	-	-	-	-	-	107,832		
2004	3	-	-	9,752	197	1,460	11,409	6,896	14,037	14,249	13,595	50,881	99,658	-	-	-	-	-	-	-	-	-	-	-	-	-	-	111,067		
2005	4	-	-	10,045	203	1,504	11,752	7,102	14,458	14,677	14,003	52,407	102,648	-	-	-	-	-	-	-	-	-	-	-	-	-	-	114,399		
2006	5	-	-	10,346	209	1,549	12,104	7,315	14,892	15,117	14,423	53,980	105,727	-	-	-	-	-	-	-	-	-	-	-	-	-	-	117,831		
2007	6	-	-	10,656	215	1,596	12,467	7,535	15,339	15,571	14,855	55,599	108,899	-	-	-	-	-	-	-	-	-	-	-	-	-	-	121,366		
2008	7	-	-	10,976	222	1,643	12,841	7,761	15,799	16,038	15,301	57,267	112,166	-	-	-	-	-	-	-	-	-	-	-	-	-	-	125,007		
2009	8	-	-	11,305	228	1,693	13,227	7,994	16,273	16,519	15,760	58,985	115,531	-	-	-	-	-	-	-	-	-	-	-	-	-	-	128,757		
2010	9	-	-	11,644	235	1,744	13,623	8,234	16,761	17,014	16,233	60,755	118,997	-	-	-	-	-	-	-	-	-	-	-	-	-	-	132,620		
2011	10	-	-	11,644	235	1,744	13,623	8,234	16,761	17,014	16,233	60,755	118,997	-	-	-	-	-	-	-	-	-	-	-	-	-	-	132,620		
2012	11	-	-	11,644	235	1,744	13,623	8,234	16,761	17,014	16,233	60,755	118,997	-	-	-	-	-	-	-	-	-	-	-	-	-	-	132,620		
2013	12	-	-	11,644	235	1,744	13,623	8,234	16,761	17,014	16,233	60,755	118,997	-	-	-	-	-	-	-	-	-	-	-	-	-	-	132,620		
2014	13	-	-	11,644	235	1,744	13,623	8,234	16,761	17,014	16,233	60,755	118,997	-	-	-	-	-	-	-	-	-	-	-	-	-	-	132,620		
2015	14	-	-	11,644	235	1,744	13,623	8,234	16,761	17,014	16,233	60,755	118,997	-	-	-	-	-	-	-	-	-	-	-	-	-	-	132,620		
2016	15	-	-	11,644	235	1,744	13,623	8,234	16,761	17,014	16,233	60,755	118,997	-	-	-	-	-	-	-	-	-	-	-	-	-	-	132,620		
2017	16	-	-	11,644	235	1,744	13,623	8,234	16,761	17,014	16,233	60,755	118,997	-	-	-	-	-	-	-	-	-	-	-	-	-	-	132,620		
2018	17	-	-	11,644	235	1,744	13,623	8,234	16,761	17,014	16,233	60,755	118,997	-	-	-	-	-	-	-	-	-	-	-	-	-	-	132,620		
2019	18	-	-	11,644	235	1,744	13,623	8,234	16,761	17,014	16,233	60,755	118,997	-	-	-	-	-	-	-	-	-	-	-	-	-	-	132,620		
2020	19	-	-	11,644	235	1,744	13,623	8,234	16,761	17,014	16,233	60,755	118,997	-	-	-	-	-	-	-	-	-	-	-	-	-	-	132,620		
2021	20	-	-	11,644	235	1,744	13,623	8,234	16,761	17,014	16,233	60,755	118,997	-	-	-	-	-	-	-	-	-	-	-	-	-	-	132,620		
2022	21	-	-	11,644	235	1,744	13,623	8,234	16,761	17,014	16,233	60,755	118,997	-	-	-	-	-	-	-	-	-	-	-	-	-	-	132,620		
2023	22	-	-	11,644	235	1,744	13,623	8,234	16,761	17,014	16,233	60,755	118,997	-	-	-	-	-	-	-	-	-	-	-	-	-	-	132,620		
2024	23	-	-	11,644	235	1,744	13,623	8,234	16,761	17,014	16,233	60,755	118,997	-	-	-	-	-	-	-	-	-	-	-	-	-	-	132,620		
2025	24	-	-	11,644	235	1,744	13,623	8,234	16,761	17,014	16,233	60,755	118,997	-	-	-	-	-	-	-	-	-	-	-	-	-	-	132,620		
2026	25	-	-	11,644	235	1,744	13,623	8,234	16,761	17,014	16,233	60,755	118,997	-	-	-	-	-	-	-	-	-	-	-	-	-	-	132,620		
				135,468	2,738	20,284	158,490	95,787	194,994	197,941	188,849	706,802	1,384,372	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1,542,861		

Discount Rate		7%		Year		OPTION		CAPITAL COSTS		INFRASTRUCTURE MAINTENANCE				EXISTING RAIL TONNAGE					NON-PRICE CUSTOMER BENEFITS			DIVERTED RAIL TONNAGE			EXTERNAL BENEFITS					TOTAL COSTS (BENEFITS)	TOTAL NET BENEFITS (COSTS)	CAPACITY BENEFITS
Year	Year No.	Initial Capital	Residual Value	Track Maint	Sig & Coms Maint	Train Control	TOTAL	Crewing	Fuel	R'stock Maint.	R'stock Capital	Terminal+ PUD	TOTAL	Reliab-ility	Transit Time	Service Availability	TOTAL	Producer Surplus	Customer Benefit	TOTAL	Road Damage	Air Pollut.	Green. Gases	Cong'n	Pass. Accidents	TOTAL	TOTAL COSTS (BENEFITS)	TOTAL NET BENEFITS (COSTS)	CAPACITY BENEFITS			
2001	-	282,111	-	8,924	180	1,336	10,441	6,310	12,848	13,040	12,441	46,563	91,201	-	-	-	-	-	-	-	-	-	-	-	-	-	-	383,753	(282,111)	-		
2002	1	282,111	-	9,758	190	1,364	11,312	6,205	13,184	13,225	12,438	47,960	93,012	475	355	455	1,285	2,250	870	3,120	1,236	9	294	2	554	2,095	379,934	(275,248)	-			
2003	2	282,111	-	10,633	200	1,393	12,225	6,088	13,530	13,410	12,423	49,399	94,849	979	731	938	2,648	4,635	1,793	6,427	2,547	19	606	3	1,141	4,316	375,795	(267,963)	-			
2004	3	282,111	-	11,552	210	1,421	13,184	5,958	13,885	13,594	12,395	50,881	96,713	1,513	1,129	1,449	4,091	7,161	2,770	9,930	3,935	29	936	5	1,763	6,668	371,319	(260,252)	-			
2005	4	282,111	-	12,517	220	1,451	14,188	5,814	14,250	13,777	12,355	52,407	98,604	2,077	1,551	1,990	5,618	9,834	3,804	13,638	5,404	40	1,285	7	2,421	9,157	366,490	(252,091)	-			
2006	5	282,111	-	13,529	231	1,481	15,241	5,657	14,623	13,959	12,302	53,980	100,521	2,674	1,997	2,562	7,233	12,661	4,897	17,568	6,958	51	1,655	9	3,118	11,790	361,291	(241,542)	1,918			
2007	6	282,111	-	14,591	243	1,511	16,345	5,485	15,007	14,139	12,234	55,599	102,464	3,306	2,468	3,166	8,940	15,649	6,053	21,702	8,600	63	2,045	11	3,853	14,573	355,704	(230,445)	3,893			
2008	7	282,111	-	15,704	255	1,542	17,501	5,298	15,400	14,317	12,151	57,267	104,433	3,972	2,966	3,805	10,743	18,805	7,273	26,079	10,334	76	2,457	14	4,630	17,511	349,711	(218,776)	5,928			
2009	8	282,111	-	16,871	267	1,573	18,711	5,094	15,803	14,493	12,052	58,985	106,428	4,676	3,492	4,479	12,646	22,137	8,562	30,699	12,164	90	2,893	16	5,451	20,614	343,292	(206,511)	8,004			
2010	9	-	-	18,094	280	1,605	19,979	4,874	16,217	14,667	11,936	60,755	108,449	5,418	4,046	5,190	14,654	25,651	9,921	35,572	14,096	104	3,352	19	6,316	23,886	54,316	88,486	10,182			
2011	10	-	-	18,094	280	1,605	19,979	4,874	16,217	14,667	11,936	60,755	108,449	5,418	4,046	5,190	14,654	25,651	9,921	35,572	14,096	104	3,352	19	6,316	23,886	54,316	88,486	10,182			
2012	11	-	-	18,094	280	1,605	19,979	4,874	16,217	14,667	11,936	60,755	108,449	5,418	4,046	5,190	14,654	25,651	9,921	35,572	14,096	104	3,352	19	6,316	23,886	54,316	88,486	10,182			
2013	12	-	-	18,094	280	1,605	19,979	4,874	16,217	14,667	11,936	60,755	108,449	5,418	4,046	5,190	14,654	25,651	9,921	35,572	14,096	104	3,352	19	6,316	23,886	54,316	88,486	10,182			
2014	13	-	-	18,094	280	1,605	19,979	4,874	16,217	14,667	11,936	60,755	108,449	5,418	4,046	5,190	14,654	25,651	9,921	35,572	14,096	104	3,352	19	6,316	23,886	54,316	88,486	10,182			
2015	14	-	-	18,094	280	1,605	19,979	4,874	16,217	14,667	11,936	60,755	108,449	5,418	4,046	5,190	14,654	25,651	9,921	35,572	14,096	104	3,352	19	6,316	23,886	54,316	88,486	10,182			
2016	15	-	-	18,094	280	1,605	19,979	4,874	16,217	14,667	11,936	60,755	108,449	5,418	4,046	5,190	14,654	25,651	9,921	35,572	14,096	104	3,352	19	6,316	23,886	54,316	88,486	10,182			
2017	16	-	-	18,094	280	1,605	19,979	4,874	16,217	14,667	11,936	60,755	108,449	5,418	4,046	5,190	14,654	25,651	9,921	35,572	14,096	104	3,352	19	6,316	23,886	54,316	88,486	10,182			
2018	17	-	-	18,094	280	1,605	19,979	4,874	16,217	14,667	11,936	60,755	108,449	5,418	4,046	5,190	14,654	25,651	9,921	35,572	14,096	104	3,352	19	6,316	23,886	54,316	88,486	10,182			
2019	18	-	-	18,094	280	1,605	19,979	4,874	16,217	14,667	11,936	60,755</																				

# Sydney - Brisbane Market Segment (Combined Benefits)

Scenario : S1

Discount Rate		7%		Year No.		CAPITAL COSTS		INFRASTRUCTURE MAINTENANCE			EXISTING RAIL TONNAGE					NON-PRICE CUSTOMER BENEFITS			DIVERTED RAIL TONNAGE			EXTERNAL BENEFITS					TOTAL COSTS (BENEFITS)	
Year	Year No.	Capital	Residual Value	Track Maint	Sig & Coms Maint	Train Control	TOTAL	Crewing	Fuel	R'stock Maint.	R'stock Capital	Terminal+ PUD	TOTAL	Reliab- ility	Transit Time	Service Availability	TOTAL	Producer Surplus	Customer Benefit	TOTAL	Road Damage	Air Pollut.	Green. Gases	Cong'n	Pass. Accidents	TOTAL	TOTAL COSTS (BENEFITS)	
2001	-	-	-	8,924	180	1,336	10,441	6,310	12,846	13,040	12,441	46,563	91,201	-	-	-	-	-	-	-	-	-	-	-	-	-	-	101,642
2002	1	-	-	9,192	186	1,376	10,754	6,500	13,231	13,431	12,814	47,960	93,937	-	-	-	-	-	-	-	-	-	-	-	-	-	-	104,691
2003	2	-	-	9,468	191	1,418	11,077	6,695	13,628	13,834	13,199	49,399	96,755	-	-	-	-	-	-	-	-	-	-	-	-	-	107,832	
2004	3	-	-	9,752	197	1,460	11,409	6,896	14,037	14,249	13,595	50,881	99,658	-	-	-	-	-	-	-	-	-	-	-	-	-	111,067	
2005	4	-	-	10,045	203	1,504	11,752	7,102	14,458	14,677	14,003	52,407	102,648	-	-	-	-	-	-	-	-	-	-	-	-	-	114,399	
2006	5	-	-	10,346	209	1,549	12,104	7,315	14,892	15,117	14,423	53,980	105,727	-	-	-	-	-	-	-	-	-	-	-	-	-	117,831	
2007	6	-	-	10,656	215	1,596	12,467	7,535	15,339	15,571	14,855	55,599	108,899	-	-	-	-	-	-	-	-	-	-	-	-	-	121,366	
2008	7	-	-	10,976	222	1,643	12,841	7,761	15,799	16,038	15,301	57,267	112,166	-	-	-	-	-	-	-	-	-	-	-	-	-	125,007	
2009	8	-	-	11,305	228	1,693	13,227	7,994	16,273	16,519	15,760	58,985	115,531	-	-	-	-	-	-	-	-	-	-	-	-	-	128,757	
2010	9	-	-	11,644	235	1,744	13,623	8,234	16,761	17,014	16,233	60,755	118,997	-	-	-	-	-	-	-	-	-	-	-	-	-	132,620	
2011	10	-	-	11,644	235	1,744	13,623	8,234	16,761	17,014	16,233	60,755	118,997	-	-	-	-	-	-	-	-	-	-	-	-	-	132,620	
2012	11	-	-	11,644	235	1,744	13,623	8,234	16,761	17,014	16,233	60,755	118,997	-	-	-	-	-	-	-	-	-	-	-	-	-	132,620	
2013	12	-	-	11,644	235	1,744	13,623	8,234	16,761	17,014	16,233	60,755	118,997	-	-	-	-	-	-	-	-	-	-	-	-	-	132,620	
2014	13	-	-	11,644	235	1,744	13,623	8,234	16,761	17,014	16,233	60,755	118,997	-	-	-	-	-	-	-	-	-	-	-	-	-	132,620	
2015	14	-	-	11,644	235	1,744	13,623	8,234	16,761	17,014	16,233	60,755	118,997	-	-	-	-	-	-	-	-	-	-	-	-	-	132,620	
2016	15	-	-	11,644	235	1,744	13,623	8,234	16,761	17,014	16,233	60,755	118,997	-	-	-	-	-	-	-	-	-	-	-	-	-	132,620	
2017	16	-	-	11,644	235	1,744	13,623	8,234	16,761	17,014	16,233	60,755	118,997	-	-	-	-	-	-	-	-	-	-	-	-	-	132,620	
2018	17	-	-	11,644	235	1,744	13,623	8,234	16,761	17,014	16,233	60,755	118,997	-	-	-	-	-	-	-	-	-	-	-	-	-	132,620	
2019	18	-	-	11,644	235	1,744	13,623	8,234	16,761	17,014	16,233	60,755	118,997	-	-	-	-	-	-	-	-	-	-	-	-	-	132,620	
2020	19	-	-	11,644	235	1,744	13,623	8,234	16,761	17,014	16,233	60,755	118,997	-	-	-	-	-	-	-	-	-	-	-	-	-	132,620	
2021	20	-	-	11,644	235	1,744	13,623	8,234	16,761	17,014	16,233	60,755	118,997	-	-	-	-	-	-	-	-	-	-	-	-	-	132,620	
2022	21	-	-	11,644	235	1,744	13,623	8,234	16,761	17,014	16,233	60,755	118,997	-	-	-	-	-	-	-	-	-	-	-	-	-	132,620	
2023	22	-	-	11,644	235	1,744	13,623	8,234	16,761	17,014	16,233	60,755	118,997	-	-	-	-	-	-	-	-	-	-	-	-	-	132,620	
2024	23	-	-	11,644	235	1,744	13,623	8,234	16,761	17,014	16,233	60,755	118,997	-	-	-	-	-	-	-	-	-	-	-	-	-	132,620	
2025	24	-	-	11,644	235	1,744	13,623	8,234	16,761	17,014	16,233	60,755	118,997	-	-	-	-	-	-	-	-	-	-	-	-	-	132,620	
2026	25	-	-	11,644	235	1,744	13,623	8,234	16,761	17,014	16,233	60,755	118,997	-	-	-	-	-	-	-	-	-	-	-	-	-	132,620	
		-	-	135,468	2,738	20,284	158,490	95,787	194,994	197,941	188,849	706,802	1,384,372	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1,542,861

Discount Rate		7%		Year No.		CAPITAL COSTS		INFRASTRUCTURE MAINTENANCE			EXISTING RAIL TONNAGE					NON-PRICE CUSTOMER BENEFITS			DIVERTED RAIL TONNAGE			EXTERNAL BENEFITS					TOTAL COSTS (BENEFITS)	TOTAL NET BENEFITS (COSTS)	CAPACITY BENEFITS	
Year	Year No.	Initial Capital	Residual Value	Track Maint	Sig & Coms Maint	Train Control	TOTAL	Crewing	Fuel	R'stock Maint.	R'stock Capital	Terminal+ PUD	TOTAL	Reliab- ility	Transit Time	Service Availability	TOTAL	Producer Surplus	Customer Benefit	TOTAL	Road Damage	Air Pollut.	Green. Gases	Cong'n	Pass. Accidents	TOTAL	TOTAL COSTS (BENEFITS)	TOTAL NET BENEFITS (COSTS)	CAPACITY BENEFITS	
2001	-	13,250	-	8,924	180	1,336	10,441	6,310	12,846	13,040	12,441	46,563	91,201	-	-	-	-	-	-	-	-	-	-	-	-	-	-	114,892	(13,250)	-
2002	1	13,250	-	9,767	186	1,395	11,348	6,236	13,158	13,204	12,510	47,960	93,068	857	227	474	1,556	-	2,353	445	2,798	1,243	9	295	2	557	2,106	111,204	(6,519)	-
2003	2	13,250	-	10,651	192	1,457	12,300	6,151	13,477	13,367	12,571	49,399	94,965	1,765	468	977	3,210	-	4,847	917	5,763	2,560	19	609	3	1,147	4,338	107,204	628	-
2004	3	13,250	-	11,580	198	1,521	13,299	6,055	13,804	13,527	12,625	50,881	96,892	2,727	724	1,510	4,960	-	7,488	1,416	8,904	3,956	29	940	5	1,772	6,702	102,875	8,192	-
2005	4	-	-	12,556	204	1,587	14,347	5,949	14,137	13,685	12,671	52,407	98,850	3,745	994	2,073	6,811	-	10,284	1,945	12,229	5,433	40	1,291	7	2,433	9,204	84,952	29,447	-
2006	5	-	-	12,932	210	1,634	14,777	6,127	14,562	14,095	13,051	53,980	101,815	3,857	1,023	2,135	7,016	-	10,592	2,063	12,595	5,596	41	1,330	7	2,506	9,480	87,501	31,178	847
2007	6	-	-	13,320	217	1,683	15,220	6,311	14,998	14,518	13,443	55,599	104,870	3,973	1,054	2,199	7,226	-	10,910	2,003	12,973	5,793	42	1,370	8	2,582	9,765	90,126	32,961	1,720
2008	7	-	-	13,720	223	1,734	15,677	6,500	15,448	14,954	13,846	57,267	108,016	4,092	1,086	2,265	7,443	-	11,237	2,125	13,363	5,936	44	1,411	8	2,659	10,058	92,829	34,797	2,619
2009	8	-	-	14,131	230	1,786	16,147	6,695	15,912	15,402	14,252	58,985	111,256	4,215	1,118	2,333	7,666	-	11,574	2,189	13,763	6,114	45	1,453	8	2,739	10,360	95,614	36,688	3,545
2010	9	-	-	14,555	237	1,840	16,632	6,896	16,389	15,864	14,690	60,755	114,594	4,341	1,152	2,403	7,896	-	11,922	2,255	14,176	6,298	46	1,497	8	2,821	10,670	98,483	38,636	4,499
2011	10	-	-	14,555	237	1,840	16,632	6,896	16,389	15,864	14,690	60,755	114,594	4,341	1,152	2,403	7,896	-	11,922	2,255	14,176	6,298	46	1,497	8	2,821	10,670	98,483	38,636	4,499
2012	11	-	-	14,555	237	1,840	16,632	6,896	16,389	15,864	14,690	60,755	114,594	4,341	1,152	2,403	7,896	-	11,922	2,255	14,176	6,298	46	1,497	8	2,821	10,670	98,483	38,636	4,499
2013	12	-	-	14,555	237	1,840	16,632	6,896	16,389	15,864	14,690	60,755	114,594	4,341	1,152	2,403	7,896	-	11,922	2,255	14,176	6,298	46	1,497	8	2,821	10,670	98,483	38,636	4,499
2014	13	-	-	14,555	237	1,840	16,632	6,896	16,389	15,864	14,690	60,755	114,594	4,341	1,152	2,403	7,896	-	11,922	2,255	14,176	6,298	46	1,497	8	2,821	10,670	98,483	38,636	4,499
2015	14	-	-	14,555	237	1,840	16,632	6,896	16,389	15,864	14,690	60,755	114,594	4,341	1,152	2,403	7,896	-	11,922	2,255	14,176	6,298	46	1,497	8	2,821	10,670	98,483	38,636	4,499
2016	15	-	-	14,555	237	1,840	16,632	6,896	16,389	15,864	14,690	60,755	114,594	4,341	1,152	2,403	7,896	-	11,922	2,255	14,176	6,298	46	1,497	8	2,821	10,670	98,483	38,636	4,499
2017	16	-	-	14,555	237	1,840	16,632	6,896	16,389	15,864	14,690	60,755	114,594	4,341	1,152	2,403	7,896	-	11,922	2,255	14,176	6,298	46	1,497	8	2,821	10,670	98,483	38,636	4,499
2018	17	-	-	14,555	237	1,840	16,632	6,896	16,389	15,864	14,690	60,755	114,594	4,341	1,152	2,403	7,896	-	11,922	2,255	14,176	6,298	46	1,497	8	2,821	10,670	98,483	38,636	4,499
2019	18	-	-	14,555	237	1,840	16,632	6,896	16,389	15,864	14,690	60,755	114,594	4,341	1,152	2,403	7,896	-	11,922	2,255	14,176	6,298	46	1,497	8	2,821	10,670	98,483	38,636	

# Sydney - Brisbane Market Segment (Combined Benefits)

Scenario : So

Discount Rate		7%		Year No.		CAPITAL COSTS		INFRASTRUCTURE MAINTENANCE				EXISTING RAIL TONNAGE					NON-PRICE CUSTOMER BENEFITS			DIVERTED RAIL TONNAGE			EXTERNAL BENEFITS					TOTAL COSTS (BENEFITS)
Year	Year No.	Capital	Residual Value	Track Maint	Sig & Coms Maint	Train Control	TOTAL	Crewing	Fuel	R'stock Maint.	R'stock Capital	Terminal+ PUD	TOTAL	Reliab- ility	Transit Time	Service Availability	TOTAL	Producer Surplus	Customer Benefit	TOTAL	Road Damage	Air Pollut.	Green. Gases	Cong'n	Pass. Accidents	TOTAL	TOTAL COSTS (BENEFITS)	
2001	-	-	-	8,924	180	1,336	10,441	6,310	12,846	13,040	12,441	46,563	91,201	-	-	-	-	-	-	-	-	-	-	-	-	-	-	101,642
2002	1	-	-	9,192	186	1,376	10,754	6,500	13,231	13,431	12,814	47,960	93,937	-	-	-	-	-	-	-	-	-	-	-	-	-	-	104,691
2003	2	-	-	9,468	191	1,418	11,077	6,695	13,628	13,834	13,199	49,399	96,755	-	-	-	-	-	-	-	-	-	-	-	-	-	-	107,832
2004	3	-	-	9,752	197	1,460	11,409	6,896	14,037	14,249	13,595	50,881	99,658	-	-	-	-	-	-	-	-	-	-	-	-	-	-	111,067
2005	4	-	-	10,045	203	1,504	11,752	7,102	14,458	14,677	14,003	52,407	102,648	-	-	-	-	-	-	-	-	-	-	-	-	-	-	114,399
2006	5	-	-	10,346	209	1,549	12,104	7,315	14,892	15,117	14,423	53,980	105,727	-	-	-	-	-	-	-	-	-	-	-	-	-	-	117,831
2007	6	-	-	10,656	215	1,596	12,467	7,535	15,339	15,571	14,855	55,599	108,899	-	-	-	-	-	-	-	-	-	-	-	-	-	-	121,366
2008	7	-	-	10,976	222	1,643	12,841	7,761	15,799	16,038	15,301	57,267	112,166	-	-	-	-	-	-	-	-	-	-	-	-	-	-	125,007
2009	8	-	-	11,305	228	1,693	13,227	7,994	16,273	16,519	15,760	58,985	115,531	-	-	-	-	-	-	-	-	-	-	-	-	-	-	128,757
2010	9	-	-	11,644	235	1,744	13,623	8,234	16,761	17,014	16,233	60,755	118,997	-	-	-	-	-	-	-	-	-	-	-	-	-	-	132,620
2011	10	-	-	11,644	235	1,744	13,623	8,234	16,761	17,014	16,233	60,755	118,997	-	-	-	-	-	-	-	-	-	-	-	-	-	-	132,620
2012	11	-	-	11,644	235	1,744	13,623	8,234	16,761	17,014	16,233	60,755	118,997	-	-	-	-	-	-	-	-	-	-	-	-	-	-	132,620
2013	12	-	-	11,644	235	1,744	13,623	8,234	16,761	17,014	16,233	60,755	118,997	-	-	-	-	-	-	-	-	-	-	-	-	-	-	132,620
2014	13	-	-	11,644	235	1,744	13,623	8,234	16,761	17,014	16,233	60,755	118,997	-	-	-	-	-	-	-	-	-	-	-	-	-	-	132,620
2015	14	-	-	11,644	235	1,744	13,623	8,234	16,761	17,014	16,233	60,755	118,997	-	-	-	-	-	-	-	-	-	-	-	-	-	-	132,620
2016	15	-	-	11,644	235	1,744	13,623	8,234	16,761	17,014	16,233	60,755	118,997	-	-	-	-	-	-	-	-	-	-	-	-	-	-	132,620
2017	16	-	-	11,644	235	1,744	13,623	8,234	16,761	17,014	16,233	60,755	118,997	-	-	-	-	-	-	-	-	-	-	-	-	-	-	132,620
2018	17	-	-	11,644	235	1,744	13,623	8,234	16,761	17,014	16,233	60,755	118,997	-	-	-	-	-	-	-	-	-	-	-	-	-	-	132,620
2019	18	-	-	11,644	235	1,744	13,623	8,234	16,761	17,014	16,233	60,755	118,997	-	-	-	-	-	-	-	-	-	-	-	-	-	-	132,620
2020	19	-	-	11,644	235	1,744	13,623	8,234	16,761	17,014	16,233	60,755	118,997	-	-	-	-	-	-	-	-	-	-	-	-	-	-	132,620
2021	20	-	-	11,644	235	1,744	13,623	8,234	16,761	17,014	16,233	60,755	118,997	-	-	-	-	-	-	-	-	-	-	-	-	-	-	132,620
2022	21	-	-	11,644	235	1,744	13,623	8,234	16,761	17,014	16,233	60,755	118,997	-	-	-	-	-	-	-	-	-	-	-	-	-	-	132,620
2023	22	-	-	11,644	235	1,744	13,623	8,234	16,761	17,014	16,233	60,755	118,997	-	-	-	-	-	-	-	-	-	-	-	-	-	-	132,620
2024	23	-	-	11,644	235	1,744	13,623	8,234	16,761	17,014	16,233	60,755	118,997	-	-	-	-	-	-	-	-	-	-	-	-	-	-	132,620
2025	24	-	-	11,644	235	1,744	13,623	8,234	16,761	17,014	16,233	60,755	118,997	-	-	-	-	-	-	-	-	-	-	-	-	-	-	132,620
2026	25	-	-	11,644	235	1,744	13,623	8,234	16,761	17,014	16,233	60,755	118,997	-	-	-	-	-	-	-	-	-	-	-	-	-	-	132,620
				135,468	2,738	20,284	158,490	95,787	194,994	197,941	188,849	706,802	1,384,372	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1,542,861

Discount Rate		7%		Year No.		CAPITAL COSTS		INFRASTRUCTURE MAINTENANCE				EXISTING RAIL TONNAGE					NON-PRICE CUSTOMER BENEFITS			DIVERTED RAIL TONNAGE			EXTERNAL BENEFITS					TOTAL COSTS (BENEFITS)	TOTAL NET BENEFITS (COSTS)	CAPACITY BENEFITS
Year	Year No.	Initial Capital	Residual Value	Track Maint	Sig & Coms Maint	Train Control	TOTAL	Crewing	Fuel	R'stock Maint.	R'stock Capital	Terminal+ PUD	TOTAL	Reliab- ility	Transit Time	Service Availability	TOTAL	Producer Surplus	Customer Benefit	TOTAL	Road Damage	Air Pollut.	Green. Gases	Cong'n	Pass. Accidents	TOTAL	TOTAL COSTS (BENEFITS)	TOTAL NET BENEFITS (COSTS)	CAPACITY BENEFITS	
2001	-	18,288	-	8,924	180	1,336	10,441	6,310	12,846	13,040	12,441	46,563	91,201	-	-	-	-	-	-	-	-	-	-	-	-	-	-	119,930	(18,288)	-
2002	1	18,288	-	9,335	189	1,381	11,504	6,111	13,155	13,143	12,338	47,960	92,707	857	384	603	1,844	-	3,011	719	3,730	1,592	12	379	2	714	2,698	114,227	(9,335)	-
2003	2	18,288	-	9,998	198	1,427	12,622	5,894	13,471	13,240	12,217	49,399	94,221	1,765	791	1,243	3,799	-	6,202	1,481	7,683	3,280	24	780	4	1,470	5,558	108,090	(258)	-
2004	3	18,288	-	12,115	207	1,474	13,796	5,658	13,794	13,331	12,078	50,881	95,743	2,727	1,222	1,921	5,870	-	9,583	2,288	11,871	5,067	38	1,205	7	2,271	8,588	101,499	9,568	-
2005	4	-	-	13,290	216	1,523	15,030	5,403	14,124	13,416	11,920	52,407	97,271	3,745	1,678	2,638	8,061	-	13,160	3,142	16,302	6,959	52	1,656	9	3,119	11,794	76,144	38,255	-
2006	5	-	-	13,889	223	1,569	15,480	5,565	14,548	13,819	12,278	53,980	100,189	3,857	1,729	2,717	8,303	-	13,555	3,236	16,791	7,167	53	1,705	9	3,213	12,148	78,428	40,488	1,085
2007	6	-	-	14,100	229	1,616	15,945	5,732	14,984	14,233	12,646	55,599	103,195	3,973	1,781	2,798	8,552	-	13,962	3,333	17,295	7,382	55	1,756	10	3,309	12,512	80,781	42,787	2,202
2008	7	-	-	14,522	236	1,665	16,423	5,904	15,434	14,660	13,025	57,267	106,291	4,092	1,834	2,882	8,808	-	14,381	3,433	17,814	7,604	56	1,809	10	3,408	12,887	83,204	45,155	3,353
2009	8	-	-	14,958	243	1,715	16,916	6,081	15,897	15,100	13,416	58,985	109,479	4,215	1,889	2,969	9,073	-	14,812	3,536	18,348	7,832	58	1,863	10	3,510	13,274	85,700	47,595	4,538
2010	9	-	-	15,407	251	1,766	17,423	6,264	16,374	15,553	13,818	60,755	112,764	4,341	1,946	3,058	9,345	-	15,257	3,642	18,899	8,067	60	1,919	11	3,616	13,672	88,271	50,107	5,759
2011	10	-	-	15,407	251	1,766	17,423	6,264	16,374	15,553	13,818	60,755	112,764	4,341	1,946	3,058	9,345	-	15,257	3,642	18,899	8,067	60	1,919	11	3,616	13,672	88,271	50,107	5,759
2012	11	-	-	15,407	251	1,766	17,423	6,264	16,374	15,553	13,818	60,755	112,764	4,341	1,946	3,058	9,345	-	15,257	3,642	18,899	8,067	60	1,919	11	3,616	13,672	88,271	50,107	5,759
2013	12	-	-	15,407	251	1,766	17,423	6,264	16,374	15,553	13,818	60,755	112,764	4,341	1,946	3,058	9,345	-	15,257	3,642	18,899	8,067	60	1,919	11	3,616	13,672	88,271	50,107	5,759
2014	13	-	-	15,407	251	1,766	17,423	6,264	16,374	15,553	13,818	60,755	112,764	4,341	1,946	3,058	9,345	-	15,257	3,642	18,899	8,067	60	1,919	11	3,616	13,672	88,271	50,107	5,759
2015	14	-	-	15,407	251	1,766	17,423	6,264	16,374	15,553	13,818	60,755	112,764	4,341	1,946	3,058	9,345	-	15,257	3,642	18,899	8,067	60	1,919	11	3,616	13,672	88,271	50,107	5,759
2016	15	-	-	15,407	251	1,766	17,423	6,264	16,374	15,553	13,818	60,755	112,764	4,341	1,946	3,058	9,345	-	15,257	3,642	18,899	8,067	60	1,919	11	3,616	13,672	88,271	50,107	5,759
2017	16	-	-	15,407	251	1,766	17,423	6,264	16,374	15,553	13,818	60,755	112,764	4,341	1,946	3,058	9,345	-	15,257	3,642	18,899	8,067	60	1,919	11	3,616	13,672	88,271	50,107	5,759
2018	17	-	-	15,407	251	1,766	17,423	6,264	16,374	15,553	13,818	60,755	112,764	4,341	1,946	3,058	9,345	-	15,257	3,642	18,899	8,067	60	1,919	11	3,616	13,672	88,271	50,107	5,759
2019	18	-	-	15,407	251	1,766	17,423	6,264	16,374	15,553	13,818	60,755	112,764	4,341																

# Sydney - Brisbane Market Segment (Combined Benefits)

Scenario : S2

Discount Rate		7%		Year No.		CAPITAL COSTS		INFRASTRUCTURE MAINTENANCE			EXISTING RAIL TONNAGE					NON-PRICE CUSTOMER BENEFITS			DIVERTED RAIL TONNAGE BENEFITS			EXTERNAL BENEFITS					TOTAL COSTS (BENEFITS)		
Year	Year No.	Capital works	Residual Value	Track Maint	Sig & Coms Maint	Train Control	TOTAL	Crewing	Fuel	R'stock Maint.	R'stock Capital	Terminal+ PUD	TOTAL	Reliab- ility	Transit Time	Service Availability	TOTAL	Producer Surplus	Customer Benefit	TOTAL	Road Damage	Air Pollut.	Green. Gases	Cong'n	Pass. Accidents	TOTAL	TOTAL COSTS (BENEFITS)		
2001	-	-	-	8,924	180	1,336	10,441	6,310	12,846	13,040	12,441	46,563	91,201	-	-	-	-	-	-	-	-	-	-	-	-	-	-	101,642	
2002	1	-	-	9,192	186	1,376	10,754	6,500	13,231	13,431	12,814	47,960	93,937	-	-	-	-	-	-	-	-	-	-	-	-	-	-	104,691	
2003	2	-	-	9,468	191	1,418	11,077	6,695	13,628	13,834	13,199	49,399	96,755	-	-	-	-	-	-	-	-	-	-	-	-	-	-	107,832	
2004	3	-	-	9,752	197	1,460	11,409	6,896	14,037	14,249	13,595	50,881	99,658	-	-	-	-	-	-	-	-	-	-	-	-	-	-	111,067	
2005	4	-	-	10,045	203	1,504	11,752	7,102	14,458	14,677	14,003	52,407	102,648	-	-	-	-	-	-	-	-	-	-	-	-	-	-	114,399	
2006	5	-	-	10,346	209	1,549	12,104	7,315	14,892	15,117	14,423	53,980	105,727	-	-	-	-	-	-	-	-	-	-	-	-	-	-	117,831	
2007	6	-	-	10,656	215	1,596	12,467	7,535	15,339	15,571	14,855	55,599	108,899	-	-	-	-	-	-	-	-	-	-	-	-	-	-	121,366	
2008	7	-	-	10,976	222	1,643	12,841	7,761	15,799	16,038	15,301	57,267	112,166	-	-	-	-	-	-	-	-	-	-	-	-	-	-	125,007	
2009	8	-	-	11,305	228	1,693	13,227	7,994	16,273	16,519	15,760	58,985	115,531	-	-	-	-	-	-	-	-	-	-	-	-	-	-	128,757	
2010	9	-	-	11,644	235	1,744	13,623	8,234	16,761	17,014	16,233	60,755	118,997	-	-	-	-	-	-	-	-	-	-	-	-	-	-	132,620	
2011	10	-	-	11,644	235	1,744	13,623	8,234	16,761	17,014	16,233	60,755	118,997	-	-	-	-	-	-	-	-	-	-	-	-	-	-	132,620	
2012	11	-	-	11,644	235	1,744	13,623	8,234	16,761	17,014	16,233	60,755	118,997	-	-	-	-	-	-	-	-	-	-	-	-	-	-	132,620	
2013	12	-	-	11,644	235	1,744	13,623	8,234	16,761	17,014	16,233	60,755	118,997	-	-	-	-	-	-	-	-	-	-	-	-	-	-	132,620	
2014	13	-	-	11,644	235	1,744	13,623	8,234	16,761	17,014	16,233	60,755	118,997	-	-	-	-	-	-	-	-	-	-	-	-	-	-	132,620	
2015	14	-	-	11,644	235	1,744	13,623	8,234	16,761	17,014	16,233	60,755	118,997	-	-	-	-	-	-	-	-	-	-	-	-	-	-	132,620	
2016	15	-	-	11,644	235	1,744	13,623	8,234	16,761	17,014	16,233	60,755	118,997	-	-	-	-	-	-	-	-	-	-	-	-	-	-	132,620	
2017	16	-	-	11,644	235	1,744	13,623	8,234	16,761	17,014	16,233	60,755	118,997	-	-	-	-	-	-	-	-	-	-	-	-	-	-	132,620	
2018	17	-	-	11,644	235	1,744	13,623	8,234	16,761	17,014	16,233	60,755	118,997	-	-	-	-	-	-	-	-	-	-	-	-	-	-	132,620	
2019	18	-	-	11,644	235	1,744	13,623	8,234	16,761	17,014	16,233	60,755	118,997	-	-	-	-	-	-	-	-	-	-	-	-	-	-	132,620	
2020	19	-	-	11,644	235	1,744	13,623	8,234	16,761	17,014	16,233	60,755	118,997	-	-	-	-	-	-	-	-	-	-	-	-	-	-	132,620	
2021	20	-	-	11,644	235	1,744	13,623	8,234	16,761	17,014	16,233	60,755	118,997	-	-	-	-	-	-	-	-	-	-	-	-	-	-	132,620	
2022	21	-	-	11,644	235	1,744	13,623	8,234	16,761	17,014	16,233	60,755	118,997	-	-	-	-	-	-	-	-	-	-	-	-	-	-	132,620	
2023	22	-	-	11,644	235	1,744	13,623	8,234	16,761	17,014	16,233	60,755	118,997	-	-	-	-	-	-	-	-	-	-	-	-	-	-	132,620	
2024	23	-	-	11,644	235	1,744	13,623	8,234	16,761	17,014	16,233	60,755	118,997	-	-	-	-	-	-	-	-	-	-	-	-	-	-	132,620	
2025	24	-	-	11,644	235	1,744	13,623	8,234	16,761	17,014	16,233	60,755	118,997	-	-	-	-	-	-	-	-	-	-	-	-	-	-	132,620	
2026	25	-	-	11,644	235	1,744	13,623	8,234	16,761	17,014	16,233	60,755	118,997	-	-	-	-	-	-	-	-	-	-	-	-	-	-	132,620	
		-	-	135,468	2,738	20,284	158,490	95,787	194,994	197,941	188,849	706,802	1,384,372	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1,542,861

Discount Rate		7%		Year No.		CAPITAL COSTS		INFRASTRUCTURE MAINTENANCE			EXISTING RAIL TONNAGE					NON-PRICE CUSTOMER BENEFITS			DIVERTED RAIL TONNAGE BENEFITS			EXTERNAL BENEFITS					TOTAL COSTS (BENEFITS)	TOTAL NET BENEFITS (COSTS)	CAPACITY BENEFITS	
Year	Year No.	Initial Capital	Residual Value	Track Maint	Sig & Coms Maint	Train Control	TOTAL	Crewing	Fuel	R'stock Maint.	R'stock Capital	Terminal+ PUD	TOTAL	Reliab- ility	Transit Time	Service Availability	TOTAL	Producer Surplus	Customer Benefit	TOTAL	Road Damage	Air Pollut.	Green. Gases	Cong'n	Pass. Accidents	TOTAL	TOTAL COSTS (BENEFITS)	TOTAL NET BENEFITS (COSTS)	CAPACITY BENEFITS	
2001	-	77,111	-	8,924	180	1,336	10,441	6,310	12,846	13,040	12,441	46,563	91,201	-	-	-	-	-	-	-	-	-	-	-	-	-	-	178,753	(77,111)	-
2002	1	77,111	-	9,899	189	1,378	11,266	6,262	13,183	13,252	12,517	47,960	93,176	669	254	359	1,282	-	1,953	693	2,646	1,073	8	255	1	481	1,819	175,806	(71,114)	-
2003	2	77,111	-	10,512	198	1,421	12,131	6,206	13,529	13,466	12,587	49,399	95,187	1,378	523	740	2,641	-	4,024	1,427	5,451	2,210	16	526	3	991	3,747	172,590	(64,758)	-
2004	3	77,111	-	11,366	207	1,465	13,038	6,141	13,883	13,680	12,650	50,881	97,235	2,129	808	1,143	4,080	-	6,217	2,204	8,421	3,415	25	813	5	1,531	5,789	169,093	(58,026)	-
2005	4	77,111	-	12,261	216	1,511	13,988	6,066	14,247	13,895	12,705	52,407	99,320	2,924	1,110	1,570	7,215	-	8,538	3,027	11,565	4,690	35	1,116	6	2,103	7,950	165,300	(50,900)	-
2006	5	77,111	-	13,199	226	1,558	14,983	5,981	14,620	14,110	12,752	53,980	101,442	3,765	1,429	2,022	7,215	-	10,992	3,898	14,890	6,038	45	1,437	8	2,707	10,236	161,196	(41,669)	1,696
2007	6	77,111	-	14,183	237	1,606	16,026	5,895	15,003	14,326	12,790	55,599	103,603	4,653	1,766	2,499	8,918	-	13,587	4,817	18,400	7,463	56	1,776	10	3,346	12,651	156,767	(31,959)	3,442
2008	7	77,111	-	15,214	247	1,657	17,118	5,778	15,395	14,542	12,819	57,267	105,802	5,591	2,122	3,003	10,716	-	16,327	5,789	22,115	8,969	67	2,135	12	4,021	15,203	151,996	(21,748)	5,241
2009	8	77,111	-	16,294	259	1,708	18,280	5,660	15,798	14,759	12,838	58,985	108,039	6,592	2,498	3,535	12,614	-	19,219	6,814	25,033	10,556	79	2,513	14	4,734	17,896	146,868	(11,017)	7,093
2010	9	-	-	17,425	270	1,761	19,456	5,529	16,210	14,975	12,847	60,755	110,316	7,627	2,894	4,096	14,617	-	22,270	7,896	30,166	12,232	91	2,912	16	5,485	20,737	64,253	(77,369)	9,002
2011	10	-	-	17,425	270	1,761	19,456	5,529	16,210	14,975	12,847	60,755	110,316	7,627	2,894	4,096	14,617	-	22,270	7,896	30,166	12,232	91	2,912	16	5,485	20,737	64,253	(77,369)	9,002
2012	11	-	-	17,425	270	1,761	19,456	5,529	16,210	14,975	12,847	60,755	110,316	7,627	2,894	4,096	14,617	-	22,270	7,896	30,166	12,232	91	2,912	16	5,485	20,737	64,253	(77,369)	9,002
2013	12	-	-	17,425	270	1,761	19,456	5,529	16,210	14,975	12,847	60,755	110,316	7,627	2,894	4,096	14,617	-	22,270	7,896	30,166	12,232	91	2,912	16	5,485	20,737	64,253	(77,369)	9,002
2014	13	-	-	17,425	270	1,761	19,456	5,529	16,210	14,975	12,847	60,755	110,316	7,627	2,894	4,096	14,617	-	22,270	7,896	30,166	12,232	91	2,912	16	5,485	20,737	64,253	(77,369)	9,002
2015	14	-	-	17,425	270	1,761	19,456	5,529	16,210	14,975	12,847	60,755	110,316	7,627	2,894	4,096	14,617	-	22,270	7,896	30,166	12,232	91	2,912	16	5,485	20,737	64,253	(77,369)	9,002
2016	15	-	-	17,425	270	1,761	19,456	5,529	16,210	14,975	12,847	60,755	110,316	7,627	2,894	4,096	14,617	-	22,270	7,896	30,166	12,232	91	2,912	16	5,485	20,737	64,253	(77,369)	9,002
2017	16	-	-	17,425	270	1,761	19,456	5,529	16,210	14,975	12,847	60,755	110,316	7,627	2,894	4,096	14,617	-	22,270	7,896	30,166	12,232	91	2,912	16	5,485	20,737	64,253	(77,369)	9,002
2018	17	-	-	17,425	270	1,761	19,456	5,529	16,210	14,975	12,847	60,755	110,316	7,627	2,894	4,096	14,617	-	22,270	7,896	30,166	12,232	91	2,912	16	5,485	20,737	64,253	(77,369)	9,002
2019	18	-	-	17,425	270	1,761	1																							



# Melbourne - Brisbane Market Segment (Combined Benefits)

Scenario : S1

Discount Rate		7%		Year		BASE CASE		INFRASTRUCTURE MAINTENANCE						EXISTING RAIL TONNAGE					NON-PRICE CUSTOMER BENEFITS			DIVERTED RAIL TONNAGE			EXTERNAL BENEFITS					TOTAL COSTS (BENEFITS)
Year	Year No.	Capital	Residual	Track	Sig & Com	Train	TOTAL	Crewing	Fuel	R'stock	R'stock	Terminal	TOTAL	Reliab-	Transit	Service	TOTAL	Producer	Customer	TOTAL	Road	Air	Green.	Cong'n	Pass.	TOTAL	TOTAL			
Costs	Value	Maint	Maint	Control						Capital	PUD		ility	Time	Availability		Surplus	Benefit		Damage	Pollut.	Gases		Accidents						
2001	-	-	-	18,122	4,321	2,220	24,663	10,485	22,728	26,707	23,467	95,414	178,801	-	-	-	-	-	-	-	-	-	-	-	-	-	-	203,463		
2002	1	-	-	18,665	4,450	2,287	25,403	10,799	23,410	27,508	24,171	98,276	184,165	-	-	-	-	-	-	-	-	-	-	-	-	-	-	209,567		
2003	2	-	-	19,225	4,584	2,356	26,165	11,123	24,113	28,334	24,896	101,224	189,690	-	-	-	-	-	-	-	-	-	-	-	-	-	-	215,854		
2004	3	-	-	19,802	4,721	2,426	26,950	11,457	24,836	29,184	25,643	104,261	195,380	-	-	-	-	-	-	-	-	-	-	-	-	-	-	222,330		
2005	4	-	-	20,396	4,863	2,499	27,796	11,801	25,591	30,059	26,412	107,389	201,242	-	-	-	-	-	-	-	-	-	-	-	-	-	-	229,000		
2006	5	-	-	21,008	5,009	2,574	29,591	12,155	26,348	30,961	27,205	110,511	207,279	-	-	-	-	-	-	-	-	-	-	-	-	-	-	235,970		
2007	6	-	-	21,638	5,159	2,651	29,449	12,519	27,139	31,890	28,021	113,929	213,497	-	-	-	-	-	-	-	-	-	-	-	-	-	-	242,946		
2008	7	-	-	22,287	5,314	2,731	30,332	12,895	27,953	32,846	28,861	117,347	219,902	-	-	-	-	-	-	-	-	-	-	-	-	-	-	250,234		
2009	8	-	-	22,956	5,474	2,813	31,242	13,282	28,792	33,832	29,727	120,867	226,499	-	-	-	-	-	-	-	-	-	-	-	-	-	-	257,741		
2010	9	-	-	23,645	5,638	2,897	32,179	13,680	29,655	34,847	30,619	124,493	233,294	-	-	-	-	-	-	-	-	-	-	-	-	-	-	265,474		
2011	10	-	-	23,645	5,638	2,897	32,179	13,680	29,655	34,847	30,619	124,493	233,294	-	-	-	-	-	-	-	-	-	-	-	-	-	-	265,474		
2012	11	-	-	23,645	5,638	2,897	32,179	13,680	29,655	34,847	30,619	124,493	233,294	-	-	-	-	-	-	-	-	-	-	-	-	-	-	265,474		
2013	12	-	-	23,645	5,638	2,897	32,179	13,680	29,655	34,847	30,619	124,493	233,294	-	-	-	-	-	-	-	-	-	-	-	-	-	-	265,474		
2014	13	-	-	23,645	5,638	2,897	32,179	13,680	29,655	34,847	30,619	124,493	233,294	-	-	-	-	-	-	-	-	-	-	-	-	-	-	265,474		
2015	14	-	-	23,645	5,638	2,897	32,179	13,680	29,655	34,847	30,619	124,493	233,294	-	-	-	-	-	-	-	-	-	-	-	-	-	-	265,474		
2016	15	-	-	23,645	5,638	2,897	32,179	13,680	29,655	34,847	30,619	124,493	233,294	-	-	-	-	-	-	-	-	-	-	-	-	-	-	265,474		
2017	16	-	-	23,645	5,638	2,897	32,179	13,680	29,655	34,847	30,619	124,493	233,294	-	-	-	-	-	-	-	-	-	-	-	-	-	-	265,474		
2018	17	-	-	23,645	5,638	2,897	32,179	13,680	29,655	34,847	30,619	124,493	233,294	-	-	-	-	-	-	-	-	-	-	-	-	-	-	265,474		
2019	18	-	-	23,645	5,638	2,897	32,179	13,680	29,655	34,847	30,619	124,493	233,294	-	-	-	-	-	-	-	-	-	-	-	-	-	-	265,474		
2020	19	-	-	23,645	5,638	2,897	32,179	13,680	29,655	34,847	30,619	124,493	233,294	-	-	-	-	-	-	-	-	-	-	-	-	-	-	265,474		
2021	20	-	-	23,645	5,638	2,897	32,179	13,680	29,655	34,847	30,619	124,493	233,294	-	-	-	-	-	-	-	-	-	-	-	-	-	-	265,474		
2022	21	-	-	23,645	5,638	2,897	32,179	13,680	29,655	34,847	30,619	124,493	233,294	-	-	-	-	-	-	-	-	-	-	-	-	-	-	265,474		
2023	22	-	-	23,645	5,638	2,897	32,179	13,680	29,655	34,847	30,619	124,493	233,294	-	-	-	-	-	-	-	-	-	-	-	-	-	-	265,474		
2024	23	-	-	23,645	5,638	2,897	32,179	13,680	29,655	34,847	30,619	124,493	233,294	-	-	-	-	-	-	-	-	-	-	-	-	-	-	265,474		
2025	24	-	-	23,645	5,638	2,897	32,179	13,680	29,655	34,847	30,619	124,493	233,294	-	-	-	-	-	-	-	-	-	-	-	-	-	-	265,474		
2026	25	-	-	23,645	5,638	2,897	32,179	13,680	29,655	34,847	30,619	124,493	233,294	-	-	-	-	-	-	-	-	-	-	-	-	-	-	265,474		
		-	-	275,074	65,587	33,703	374,364	159,151	345,002	405,396	356,212	#####	2,714,076	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3,088,440		

Discount Rate		7%		Year		OPTION		INFRASTRUCTURE MAINTENANCE						EXISTING RAIL TONNAGE					NON-PRICE CUSTOMER BENEFITS			DIVERTED RAIL TONNAGE			EXTERNAL BENEFITS					TOTAL COSTS (BENEFITS)	TOTAL NET BENEFITS (COSTS)	CAPACITY BENEFITS
Year	Year No.	Initial	Residual	Track	Sig & Com	Train	TOTAL	Crewing	Fuel	R'stock	R'stock	Terminal	TOTAL	Reliab-	Transit	Service	TOTAL	Producer	Customer	TOTAL	Road	Air	Green.	Cong'n	Pass.	TOTAL	TOTAL	TOTAL				
Costs	Value	Capital	Value	Maint	Maint	Control				Capital	PUD			ility	Time	Availability		Surplus	Benefit		Damage	Pollut.	Gases		Accidents							
2001	-	71,500	-	18,122	4,321	2,220	24,663	10,485	22,728	26,707	23,467	95,414	178,801	-	-	-	-	-	-	-	-	-	-	-	-	-	-	274,963	(71,500)	-		
2002	1	71,500	-	20,569	4,477	2,388	27,434	10,359	23,334	27,195	23,622	98,276	182,786	1,660	537	921	3,118	5,238	1,464	6,702	2,897	26	688	7	1,292	4,910	266,991	(57,424)	-			
2003	2	71,500	-	23,147	4,639	2,564	30,350	10,216	23,955	27,688	23,766	101,224	186,850	3,420	1,106	1,897	6,423	10,789	3,016	13,806	5,969	53	1,417	14	2,661	10,114	258,357	(42,503)	-			
2004	3	71,500	-	25,862	4,806	2,748	33,416	10,056	24,593	28,186	23,896	104,261	190,992	5,284	1,709	2,931	9,924	16,670	4,600	21,330	9,222	81	2,190	22	4,112	15,626	249,029	(26,699)	-			
2005	4	-	-	28,718	4,979	2,941	36,639	9,877	25,247	28,690	24,013	107,389	195,216	7,256	2,347	4,025	13,629	22,893	6,400	29,293	12,664	111	3,007	30	5,647	21,459	167,473	61,527	-			
2006	5	-	-	29,580	5,128	3,029	37,738	10,173	26,005	29,550	24,734	110,611	201,072	7,474	2,418	4,146	14,038	23,580	6,592	30,172	13,044	115	3,098	30	5,816	22,103	172,497	65,304	1,931			
2007	6	-	-	30,467	5,282	3,120	38,870	10,478	26,785	30,437	25,476	113,929	207,104	7,698	2,490	4,271	14,459	24,287	6,790	31,077	13,436	118	3,190	31	5,990	22,796	177,672	69,195	3,921			
2008	7	-	-	31,381	5,441	3,214	40,036	10,792	27,598	31,350	26,240	117,347	213,318	7,929	2,565	4,399	14,893	25,016	6,993	32,009	13,839	122	3,286	32	6,170	23,449	183,002	73,202	5,970			
2009	8	-	-	32,323	5,604	3,310	41,237	11,116	28,416	32,290	27,027	120,867	219,717	8,167	2,642	4,531	15,340	25,766	7,203	32,970	14,254	125	3,385	33	6,355	24,153	188,492	77,329	8,000			
2010	9	-	-	33,292	5,772	3,410	42,474	11,450	29,268	33,259	27,838	124,493	226,309	8,412	2,721	4,667	15,800	26,539	7,419	33,959	14,681	129	3,486	34	6,546	24,877	194,147	81,581	10,254			
2011	10	-	-	33,292	5,772	3,410	42,474	11,450	29,268	33,259	27,838	124,493	226,309	8,412	2,721	4,667	15,800	26,539	7,419	33,959	14,681	129	3,486	34	6,546	24,877	194,147	81,581	10,254			
2012	11	-	-	33,292	5,772	3,410	42,474	11,450	29,268	33,259	27,838	124,493	226,309	8,412	2,721	4,667	15,800	26,539	7,419	33,959	14,681	129	3,486	34	6,546	24,877	194,147	81,581	10,254			
2013	12	-	-	33,292	5,772	3,410	42,474	11,450	29,268	33,259	27,838	124,493	226,309	8,412	2,721	4,667	15,800	26,539	7,419	33,959	14,681	129	3,486	34	6,546	24,877	194,147	81,581	10,254			
2014	13	-	-	33,292	5,772	3,410	42,474	11,450	29,268	33,259	27,838	124,493	226,309	8,412	2,721	4,667	15,800	26,539	7,419	33,959	14,681	129	3,486	34	6,546	24,877	194,147	81,581	10,254			
2015	14	-	-	33,292	5,772	3,410	42,474	11,450	29,268	33,259	27,838	124,493	226,309	8,412	2,721	4,667	15,800	26,539	7,419	33,959	14,681	129	3,486	34	6,546	24,877	194,147	81,581	10,254			
2016	15	-	-	33,292	5,772	3,410	42,474	11,450	29,268	33,259	27,838	124,493	226,309	8,412	2,721	4,667	15,800	26,539	7,419	33,959	14,681	129	3,486	34	6,546	24,877	194,147	81,581	10,254			
2017	16	-	-	33,292	5,772	3,410	42,474	11,450	29,268	33,259	27,838	124,493	226,309	8,412	2,721	4,667	15,800	26,539	7,419	33,959	14,681	129	3,486	34	6,546	24,877	194,14					



# Melbourne - Brisbane Market Segment (Combined Benefits)

Scenario : S2

Discount Rate		7%		Year		BASE CASE		INFRASTRUCTURE MAINTENANCE						EXISTING RAIL TONNAGE					NON-PRICE CUSTOMER BENEFITS			DIVERTED RAIL TONNAGE			EXTERNAL BENEFITS					TOTAL COSTS (BENEFITS)
Year	Year No.	Capital	Residual Value	Track Maint	Sig & Coms Maint	Train Control	TOTAL	Crewing	Fuel	R'stock Maint.	R'stock Capital	Terminal+ PUD	TOTAL	Reliab-ility	Transit Time	Service Availability	TOTAL	Producer Surplus	Customer Benefit	TOTAL	Road Damage	Air Pollut.	Green. Gases	Cong'n	Pass. Accidents	TOTAL	TOTAL COSTS (BENEFITS)			
2001	-	-	-	18,122	4,321	2,220	24,663	10,485	22,728	26,707	23,467	95,414	178,801	-	-	-	-	-	-	-	-	-	-	-	-	-	-	203,463		
2002	1	-	-	18,665	4,450	2,287	25,403	10,799	23,410	27,508	24,171	98,276	184,165	-	-	-	-	-	-	-	-	-	-	-	-	-	209,567			
2003	2	-	-	19,225	4,584	2,356	26,165	11,123	24,113	28,334	24,896	101,224	189,690	-	-	-	-	-	-	-	-	-	-	-	-	-	215,854			
2004	3	-	-	19,802	4,721	2,428	26,950	11,457	24,836	29,184	25,643	104,261	195,380	-	-	-	-	-	-	-	-	-	-	-	-	-	222,330			
2005	4	-	-	20,396	4,863	2,499	27,756	11,801	25,581	30,059	26,412	107,389	201,242	-	-	-	-	-	-	-	-	-	-	-	-	-	229,000			
2006	5	-	-	21,008	5,009	2,574	28,591	12,155	26,348	30,961	27,205	110,511	207,279	-	-	-	-	-	-	-	-	-	-	-	-	-	235,670			
2007	6	-	-	21,638	5,159	2,651	29,449	12,519	27,139	31,890	28,021	113,929	213,497	-	-	-	-	-	-	-	-	-	-	-	-	-	242,946			
2008	7	-	-	22,287	5,314	2,731	30,332	12,895	27,953	32,846	28,861	117,347	219,902	-	-	-	-	-	-	-	-	-	-	-	-	-	250,234			
2009	8	-	-	22,956	5,474	2,813	31,242	13,282	28,792	33,832	29,727	120,867	226,499	-	-	-	-	-	-	-	-	-	-	-	-	-	257,741			
2010	9	-	-	23,645	5,638	2,897	32,179	13,680	29,655	34,847	30,619	124,493	233,294	-	-	-	-	-	-	-	-	-	-	-	-	-	265,474			
2011	10	-	-	23,645	5,638	2,897	32,179	13,680	29,655	34,847	30,619	124,493	233,294	-	-	-	-	-	-	-	-	-	-	-	-	-	265,474			
2012	11	-	-	23,645	5,638	2,897	32,179	13,680	29,655	34,847	30,619	124,493	233,294	-	-	-	-	-	-	-	-	-	-	-	-	-	265,474			
2013	12	-	-	23,645	5,638	2,897	32,179	13,680	29,655	34,847	30,619	124,493	233,294	-	-	-	-	-	-	-	-	-	-	-	-	-	265,474			
2014	13	-	-	23,645	5,638	2,897	32,179	13,680	29,655	34,847	30,619	124,493	233,294	-	-	-	-	-	-	-	-	-	-	-	-	-	265,474			
2015	14	-	-	23,645	5,638	2,897	32,179	13,680	29,655	34,847	30,619	124,493	233,294	-	-	-	-	-	-	-	-	-	-	-	-	-	265,474			
2016	15	-	-	23,645	5,638	2,897	32,179	13,680	29,655	34,847	30,619	124,493	233,294	-	-	-	-	-	-	-	-	-	-	-	-	-	265,474			
2017	16	-	-	23,645	5,638	2,897	32,179	13,680	29,655	34,847	30,619	124,493	233,294	-	-	-	-	-	-	-	-	-	-	-	-	-	265,474			
2018	17	-	-	23,645	5,638	2,897	32,179	13,680	29,655	34,847	30,619	124,493	233,294	-	-	-	-	-	-	-	-	-	-	-	-	-	265,474			
2019	18	-	-	23,645	5,638	2,897	32,179	13,680	29,655	34,847	30,619	124,493	233,294	-	-	-	-	-	-	-	-	-	-	-	-	-	265,474			
2020	19	-	-	23,645	5,638	2,897	32,179	13,680	29,655	34,847	30,619	124,493	233,294	-	-	-	-	-	-	-	-	-	-	-	-	-	265,474			
2021	20	-	-	23,645	5,638	2,897	32,179	13,680	29,655	34,847	30,619	124,493	233,294	-	-	-	-	-	-	-	-	-	-	-	-	-	265,474			
2022	21	-	-	23,645	5,638	2,897	32,179	13,680	29,655	34,847	30,619	124,493	233,294	-	-	-	-	-	-	-	-	-	-	-	-	-	265,474			
2023	22	-	-	23,645	5,638	2,897	32,179	13,680	29,655	34,847	30,619	124,493	233,294	-	-	-	-	-	-	-	-	-	-	-	-	-	265,474			
2024	23	-	-	23,645	5,638	2,897	32,179	13,680	29,655	34,847	30,619	124,493	233,294	-	-	-	-	-	-	-	-	-	-	-	-	-	265,474			
2025	24	-	-	23,645	5,638	2,897	32,179	13,680	29,655	34,847	30,619	124,493	233,294	-	-	-	-	-	-	-	-	-	-	-	-	-	265,474			
2026	25	-	-	23,645	5,638	2,897	32,179	13,680	29,655	34,847	30,619	124,493	233,294	-	-	-	-	-	-	-	-	-	-	-	-	-	265,474			
		-	-	275,074	65,587	33,703	374,364	159,151	345,002	405,396	356,212	#####	2,714,076	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3,088,440		

Discount Rate		7%		Year		OPTION		INFRASTRUCTURE MAINTENANCE						EXISTING RAIL TONNAGE					NON-PRICE CUSTOMER BENEFITS			DIVERTED RAIL TONNAGE			EXTERNAL BENEFITS					TOTAL COSTS (BENEFITS)	TOTAL NET BENEFITS (COSTS)	CAPACITY BENEFITS
Year	Year No.	Initial Capital	Residual Value	Track Maint	Sig & Coms Maint	Train Control	TOTAL	Crewing	Fuel	R'stock Maint.	R'stock Capital	Terminal+ PUD	TOTAL	Reliab-ility	Transit Time	Service Availability	TOTAL	Producer Surplus	Customer Benefit	TOTAL	Road Damage	Air Pollut.	Green. Gases	Cong'n	Pass. Accidents	TOTAL	TOTAL COSTS (BENEFITS)	TOTAL NET BENEFITS (COSTS)	CAPACITY BENEFITS			
2001	-	179,333	-	18,122	4,321	2,220	24,663	10,485	22,728	26,707	23,467	95,414	178,801	-	-	-	-	-	-	-	-	-	-	-	-	-	-	382,797	(179,333)	-		
2002	1	179,333	-	20,130	4,554	2,329	27,013	10,427	23,357	27,253	23,672	98,276	182,984	-	-	-	2,402	-	3,960	1,819	5,779	2,273	21	541	6	1,014	3,854	377,295	(167,728)	-		
2003	2	179,333	-	22,242	4,798	2,442	29,482	10,356	24,003	27,808	23,867	101,224	187,257	-	-	-	4,947	-	8,158	3,746	11,904	4,682	43	1,114	12	2,089	7,940	371,281	(155,427)	-		
2004	3	179,333	-	24,462	5,052	2,560	32,074	10,271	24,666	28,371	24,054	104,261	191,622	-	-	-	7,643	-	12,604	5,788	18,392	7,234	67	1,721	18	3,228	12,267	364,727	(142,397)	-		
2005	4	179,333	-	26,796	5,317	2,683	34,796	10,172	25,348	28,943	24,230	107,389	196,081	-	-	-	10,497	-	17,309	7,949	25,258	9,934	91	2,363	25	4,433	16,847	357,608	(128,608)	-		
2006	5	179,333	-	29,248	5,593	2,810	37,652	10,058	26,048	29,524	24,394	110,611	200,635	-	-	-	13,515	-	22,285	10,235	32,520	12,790	118	3,043	32	5,707	21,691	349,894	(110,474)	3,551		
2007	6	179,333	-	31,823	5,882	2,943	40,648	9,927	26,768	30,114	24,547	113,929	205,285	-	-	-	16,704	-	27,545	12,650	40,195	15,809	146	3,761	40	7,054	26,810	341,557	(91,403)	7,208		
2008	7	179,333	-	34,526	6,162	3,062	43,790	9,780	27,507	30,712	24,688	117,347	210,034	-	-	-	20,073	-	33,100	15,201	48,301	16,987	175	4,519	48	8,477	32,216	332,567	(71,358)	10,975		
2009	8	179,333	-	37,363	6,495	3,226	47,084	9,615	28,266	31,319	24,814	120,867	214,882	-	-	-	23,629	-	38,963	17,894	56,857	22,362	206	5,320	57	9,979	37,923	322,891	(50,295)	14,855		
2010	9	-	-	40,339	6,822	3,376	50,536	9,432	29,047	31,936	24,926	124,493	219,833	14,331	6,133	6,916	27,380	-	45,149	20,735	65,883	25,912	238	6,165	66	11,563	43,944	133,163	151,162	18,851		
2011	10	-	-	40,339	6,822	3,376	50,536	9,432	29,047	31,936	24,926	124,493	219,833	14,331	6,133	6,916	27,380	-	45,149	20,735	65,883	25,912	238	6,165	66	11,563	43,944	133,163	151,162	18,851		
2012	11	-	-	40,339	6,822	3,376	50,536	9,432	29,047	31,936	24,926	124,493	219,833	14,331	6,133	6,916	27,380	-	45,149	20,735	65,883	25,912	238	6,165	66	11,563	43,944	133,163	151,162	18,851		
2013	12	-	-	40,339	6,822	3,376	50,536	9,432	29,047	31,936	24,926	124,493	219,833	14,331	6,133	6,916	27,380	-	45,149	20,735	65,883	25,912	238	6,165	66	11,563	43,944	133,163	151,162	18,851		
2014	13	-	-	40,339	6,822	3,376	50,536	9,432	29,047	31,936	24,926	124,493	219,833	14,331	6,133	6,916	27,380	-	45,149	20,735	65,883	25,912	238	6,165	66	11,563	43,944	133,163	151,162	18,851		
2015	14	-	-	40,339	6,822	3,376	50,536	9,432	29,047	31,936	24,926	124,493	219,833	14,331	6,133	6,916	27,380	-	45,149	20,735	65,883	25,912	238	6,165	66	11,563	43,944	133,163	151,162	18,851		
2016	15	-	-	40,339	6,822	3,376	50,536	9,432	29,047	31,936	24,926	124,493	219,833	14,331	6,133	6,916	27,380	-	45,149	20,735	65,883	25,912	238	6,165	66	11,563	43,944	133,163	151,162	18,851		
2017	16	-	-	40,339	6,822	3,376	50,536	9,432	29,047	31,936	24,926	124,493	219,833	14,331	6,133	6,916	27,380	-	45,149	20,735	65,883	25,912	238	6,165	66	11,563	43,944	133,163	151,162	18,851		
2018	17	-	-	40,339	6,822	3,376	50,536	9,432	29,047	31,936	24,926	124,493	219,833	14,331	6,133	6,916	27,380	-	45,149	20,735	65,883	25,912	238	6,165	66	11,563	43,944	133,163	151,162	18,851		
2019	18	-	-	40,339	6,822																											



## 2.2 East – West Market Segments

Table 2 summarises the economic evaluation results for the ATC, S1, S2 and So scenarios for the East – West market segments.

**Table 2 : East – West Economic Evaluation Summary Results (Combined Benefits)**

<i>Present Value (\$ M)</i>		Mel-Adl				Mel-Per				Syd-Per			
		ATC	S1	So	S2	ATC	S1	So	S2	ATC	S1	S2	So
Capital costs		(153)	(102)	(120)	(627)	(252)	(25)	(47)	(485)	(224)	(7)	(33)	(71)
Residual values		12	8	9	64	25	2	4	49	23	-	3	6
Infrastructure maintenance costs		(13)	(7)	(8)	(16)	(27)	(18)	(21)	(34)	(31)	(16)	(25)	(31)
Rail operating cost savings		7	8	12	34	23	5	16	64	44	8	9	31
Non-price customer benefits		(29)	40	50	122	141	87	105	209	166	74	136	175
Diverted rail benefits		48	37	44	85	58	39	48	91	51	21	33	48
Externalities		46	35	41	76	77	51	60	104	88	41	60	81
<b>Results</b>	NPV	(24)	17	28	(263)	46	141	164	(2)	115	122	182	239
	BCR	0.8	1.2	1.2	0.6	1.2	6.6	4.5	1.0	1.5	18.0	6.4	4.4
	IRR	5%	9%	9%	3%	9%	46%	33%	7%	12%	121%	45%	32%

# Melbourne - Adelaide Market Segment (Combined Benefits)

Scenario : ATC

Discount Rate		7%		Year		BASE CASE		INFRASTRUCTURE MAINTENANCE				EXISTING RAIL TONNAGE					NON-PRICE CUSTOMER BENEFITS			DIVERTED RAIL TONNAGE BENEFITS			EXTERNAL BENEFITS					TOTAL COSTS (BENEFITS)	
Year	Year No.	Capital works	Residual Value	Track Maint	Sig & Coms Maint	Train Control	TOTAL	Crewing	Fuel	R'stock Maint.	R'stock Capital	Terminal+ PUD	TOTAL	Reliability	Transit Time	Service Availability	TOTAL	Producer Surplus	Customer Benefit	TOTAL	Road Damage	Air Pollut.	Green. Gases	Cong'n	Pass. Accidents	TOTAL	TOTAL COSTS (BENEFITS)		
2001	-	-	-	7,305	1,192	997	9,493	4,709	7,942	11,239	10,361	36,390	70,641	-	-	-	-	-	-	-	-	-	-	-	-	-	-	80,135	
2002	1	-	-	7,524	1,228	1,027	9,778	4,850	8,181	11,576	10,672	37,482	72,760	-	-	-	-	-	-	-	-	-	-	-	-	-	-	82,539	
2003	2	-	-	7,749	1,264	1,058	10,072	4,996	8,426	11,923	10,992	38,606	74,943	-	-	-	-	-	-	-	-	-	-	-	-	-	-	85,015	
2004	3	-	-	7,982	1,302	1,090	10,374	5,145	8,679	12,281	11,322	39,764	77,192	-	-	-	-	-	-	-	-	-	-	-	-	-	-	87,565	
2005	4	-	-	8,221	1,341	1,122	10,685	5,300	8,938	12,650	11,661	40,957	79,507	-	-	-	-	-	-	-	-	-	-	-	-	-	-	90,192	
2006	5	-	-	8,468	1,382	1,156	11,006	5,459	9,207	13,029	12,011	42,186	81,893	-	-	-	-	-	-	-	-	-	-	-	-	-	-	92,899	
2007	6	-	-	8,722	1,423	1,191	11,336	5,622	9,484	13,420	12,372	43,451	84,349	-	-	-	-	-	-	-	-	-	-	-	-	-	-	95,685	
2008	7	-	-	8,984	1,466	1,226	11,676	5,791	9,768	13,823	12,743	44,755	86,880	-	-	-	-	-	-	-	-	-	-	-	-	-	-	98,566	
2009	8	-	-	9,253	1,510	1,263	12,026	5,965	10,061	14,237	13,125	46,098	89,486	-	-	-	-	-	-	-	-	-	-	-	-	-	-	101,512	
2010	9	-	-	9,531	1,555	1,301	12,387	6,144	10,363	14,664	13,519	47,481	92,171	-	-	-	-	-	-	-	-	-	-	-	-	-	-	104,558	
2011	10	-	-	9,817	1,602	1,340	12,758	6,328	10,674	15,104	13,924	48,905	94,938	-	-	-	-	-	-	-	-	-	-	-	-	-	-	107,694	
2012	11	-	-	10,111	1,650	1,380	13,141	6,518	10,994	15,557	14,342	50,372	97,784	-	-	-	-	-	-	-	-	-	-	-	-	-	-	110,925	
2013	12	-	-	10,415	1,699	1,422	13,535	6,714	11,324	16,024	14,772	51,883	100,717	-	-	-	-	-	-	-	-	-	-	-	-	-	-	114,253	
2014	13	-	-	10,727	1,750	1,464	13,942	6,915	11,664	16,505	15,216	53,440	103,739	-	-	-	-	-	-	-	-	-	-	-	-	-	-	117,680	
2015	14	-	-	11,049	1,803	1,508	14,360	7,122	12,014	17,000	15,672	55,043	106,851	-	-	-	-	-	-	-	-	-	-	-	-	-	-	121,211	
2016	15	-	-	11,380	1,857	1,554	14,791	7,336	12,374	17,510	16,142	56,694	110,057	-	-	-	-	-	-	-	-	-	-	-	-	-	-	124,847	
2017	16	-	-	11,722	1,912	1,600	15,234	7,556	12,745	18,035	16,626	58,395	113,358	-	-	-	-	-	-	-	-	-	-	-	-	-	-	128,593	
2018	17	-	-	12,073	1,970	1,648	15,691	7,783	13,128	18,576	17,125	60,147	116,759	-	-	-	-	-	-	-	-	-	-	-	-	-	-	132,450	
2019	18	-	-	12,436	2,029	1,698	16,162	8,016	13,521	19,134	17,639	61,951	120,262	-	-	-	-	-	-	-	-	-	-	-	-	-	-	136,424	
2020	19	-	-	12,809	2,090	1,749	16,647	8,257	13,927	19,708	18,168	63,810	123,870	-	-	-	-	-	-	-	-	-	-	-	-	-	-	140,517	
2021	20	-	-	13,193	2,152	1,801	17,146	8,505	14,345	20,299	18,713	65,724	127,586	-	-	-	-	-	-	-	-	-	-	-	-	-	-	144,732	
2022	21	-	-	13,589	2,217	1,855	17,661	8,760	14,775	20,908	19,275	67,696	131,413	-	-	-	-	-	-	-	-	-	-	-	-	-	-	149,074	
2023	22	-	-	13,996	2,284	1,911	18,191	9,022	15,219	21,535	19,853	69,727	135,356	-	-	-	-	-	-	-	-	-	-	-	-	-	-	153,546	
2024	23	-	-	14,416	2,352	1,968	18,736	9,293	15,675	22,181	20,448	71,819	139,417	-	-	-	-	-	-	-	-	-	-	-	-	-	-	158,153	
2025	24	-	-	14,849	2,423	2,027	19,298	9,572	16,145	22,847	21,062	73,973	143,599	-	-	-	-	-	-	-	-	-	-	-	-	-	-	162,897	
2026	25	-	-	15,294	2,495	2,088	19,877	9,859	16,630	23,532	21,694	76,192	147,907	-	-	-	-	-	-	-	-	-	-	-	-	-	-	167,784	
																													1,347,565

Discount Rate		7%		Year		OPTION		INFRASTRUCTURE MAINTENANCE				EXISTING RAIL TONNAGE					NON-PRICE CUSTOMER BENEFITS			DIVERTED RAIL TONNAGE BENEFITS			EXTERNAL BENEFITS					TOTAL COSTS (BENEFITS)	TOTAL NET BENEFITS (COSTS)
Year	Year No.	Initial Capital	Residual Value	Track Maint	Sig & Coms Maint	Train Control	TOTAL	Crewing	Fuel	R'stock Maint.	R'stock Capital	Terminal+ PUD	TOTAL	Reliability	Transit Time	Service Availability	TOTAL	Producer Surplus	Customer Benefit	TOTAL	Road Damage	Air Pollut.	Green. Gases	Cong'n	Pass. Accidents	TOTAL	TOTAL COSTS (BENEFITS)	TOTAL NET BENEFITS (COSTS)	
2001	-	42,250	-	7,305	1,192	997	9,493	4,709	7,942	11,239	10,361	36,390	70,641	-	-	-	-	-	-	-	-	-	-	-	-	-	-	122,385	(42,250)
2002	1	42,250	-	7,727	1,243	1,037	10,007	4,805	8,215	11,539	10,593	37,482	72,833	280	194	43	517	-	723	132	855	481	4	115	1	216	816	122,702	(40,163)
2003	2	42,250	-	8,169	1,295	1,079	10,544	4,903	8,496	11,847	10,829	38,606	74,881	576	400	89	1,065	-	1,489	273	1,762	991	7	236	1	446	1,682	122,965	(37,950)
2004	3	42,250	-	8,630	1,350	1,123	11,103	5,002	8,786	12,164	11,070	39,764	76,786	891	618	138	1,646	-	2,301	422	2,722	1,532	11	365	2	689	2,598	123,173	(35,607)
2005	4	-	-	9,112	1,407	1,168	11,687	5,103	9,087	12,488	11,315	40,957	78,951	1,223	848	189	2,261	-	3,160	579	3,738	2,104	15	501	3	946	3,569	81,070	9,123
2006	5	-	-	9,385	1,449	1,203	12,037	5,256	9,360	12,863	11,655	42,186	81,319	1,260	874	195	2,328	-	3,254	596	3,851	2,167	16	516	3	974	3,676	83,502	9,396
2007	6	-	-	9,667	1,493	1,239	12,399	5,413	9,640	13,249	12,004	43,451	83,759	1,288	900	201	2,398	-	3,352	614	3,966	2,232	16	532	3	1,003	3,786	86,007	9,678
2008	7	-	-	9,957	1,537	1,276	12,770	5,576	9,930	13,646	12,364	44,755	86,271	1,337	927	207	2,470	-	3,453	633	4,085	2,299	17	547	3	1,034	3,899	88,587	9,969
2009	8	-	-	10,256	1,584	1,314	13,154	5,743	10,228	14,056	12,735	46,098	89,860	1,377	955	213	2,544	-	3,556	652	4,208	2,368	17	564	3	1,065	4,016	91,245	10,268
2010	9	-	-	10,563	1,631	1,354	13,548	5,915	10,534	14,477	13,117	47,481	91,625	1,418	984	219	2,621	-	3,663	671	4,334	2,439	18	581	3	1,097	4,137	93,982	10,561
2011	10	-	-	10,880	1,680	1,394	13,955	6,093	10,850	14,912	13,511	48,905	94,271	1,460	1,013	226	2,699	-	3,773	691	4,464	2,512	18	598	3	1,129	4,261	96,801	10,883
2012	11	-	-	11,207	1,730	1,436	14,373	6,276	11,176	15,359	13,916	50,372	97,099	1,504	1,043	233	2,780	-	3,886	712	4,598	2,587	19	616	3	1,163	4,389	99,705	11,220
2013	12	-	-	11,543	1,782	1,479	14,804	6,464	11,511	15,820	14,334	51,883	100,012	1,549	1,075	240	2,864	-	4,002	733	4,736	2,665	19	635	3	1,198	4,521	102,697	11,556
2014	13	-	-	11,889	1,836	1,524	15,249	6,658	11,857	16,295	14,764	53,440	103,013	1,596	1,107	247	2,950	-	4,123	755	4,878	2,745	20	654	4	1,234	4,656	105,777	11,903
2015	14	-	-	12,246	1,891	1,569	15,706	6,858	12,212	16,783	15,207	55,043	106,103	1,644	1,140	254	3,038	-	4,246	778	5,024	2,827	21	673	4	1,271	4,796	108,951	12,260
2016	15	-	-	12,613	1,948	1,617	16,177	7,063	12,579	17,287	15,663	56,694	109,286	1,693	1,174	262	3,129	-	4,374	801	5,175	2,912	21	694	4	1,309	4,940	112,219	12,628
2017	16	-	-	12,991	2,006	1,665	16,663	7,275	12,956	17,805	16,133	58,395	112,565	1,744	1,210	270	3,223	-	4,505	825	5,330	2,999	22	714	4	1,349	5,088	115,586	13,007
2018	17	-	-	13,381	2,066	1,715	17,162	7,494	13,345	18,340	16,617	60,147	115,942	1,796	1,246	278	3,320	-	4,640	850	5,490	3,089	22	736	4	1,389	5,241	119,653	13,397
2019	18	-	-	13,783	2,128	1,766	17,677	7,718	13,745	18,890	17,115	61,951	119,420	1,850	1,283	286	3,410	-	4,779	876	5,655	3,182	23	758	4	1,431	5,398	122,625	13,799
2020	19	-	-	14,196	2,192	1,819	18,208	7,950	14,157	19,457	17,629	63,810	123,002	1,906	1,322	295	3,522	-	4,923	902	5,824	3,277	24	781	4	1,474	5,560	126,304	14,213



# Melbourne - Adelaide Market Segment (Combined Benefits)

Scenario : So

Discount Rate		7%		Year		BASE CASE				EXISTING RAIL TONNAGE										DIVERTED RAIL TONNAGE					EXTERNAL BENEFITS					TOTAL COSTS (BENEFITS)
		CAPITAL COSTS		INFRASTRUCTURE MAINTENANCE				RAIL OPERATING COSTS					NON-PRICE CUSTOMER BENEFITS					BENEFITS												
		Capital works	Residual Value	Track Maint	Sig & Coms Maint	Train Control	TOTAL	Crewing	Fuel	R'stock Maint.	R'stock Capital	Terminal+ PUD	TOTAL	Reliability	Transit Time	Service Availability	TOTAL	Producer Surplus	Customer Benefit	TOTAL	Road Damage	Air Pollut.	Green. Gases	Cong'n	Pass. Accidents	TOTAL				
2001	-	-	-	7,305	1,192	997	9,493	4,709	7,942	11,239	10,361	36,390	70,641	-	-	-	-	-	-	-	-	-	-	-	-	-	-	80,135		
2002	1	-	-	7,524	1,228	1,027	9,778	4,850	8,181	11,576	10,672	37,482	72,760	-	-	-	-	-	-	-	-	-	-	-	-	-	82,539			
2003	2	-	-	7,749	1,264	1,058	10,072	4,996	8,426	11,923	10,992	38,606	74,943	-	-	-	-	-	-	-	-	-	-	-	-	-	85,015			
2004	3	-	-	7,982	1,302	1,090	10,374	5,145	8,679	12,281	11,322	39,764	77,192	-	-	-	-	-	-	-	-	-	-	-	-	-	87,565			
2005	4	-	-	8,221	1,341	1,122	10,685	5,300	8,938	12,650	11,661	40,957	79,507	-	-	-	-	-	-	-	-	-	-	-	-	-	90,192			
2006	5	-	-	8,468	1,382	1,156	11,006	5,459	9,207	13,029	12,011	42,186	81,893	-	-	-	-	-	-	-	-	-	-	-	-	-	92,899			
2007	6	-	-	8,722	1,423	1,191	11,336	5,622	9,484	13,420	12,372	43,451	84,349	-	-	-	-	-	-	-	-	-	-	-	-	-	95,685			
2008	7	-	-	8,984	1,466	1,226	11,676	5,791	9,768	13,823	12,743	44,755	86,880	-	-	-	-	-	-	-	-	-	-	-	-	-	98,566			
2009	8	-	-	9,253	1,510	1,263	12,026	5,965	10,061	14,237	13,125	46,098	89,486	-	-	-	-	-	-	-	-	-	-	-	-	-	101,512			
2010	9	-	-	9,531	1,555	1,301	12,387	6,144	10,363	14,664	13,519	47,481	92,171	-	-	-	-	-	-	-	-	-	-	-	-	-	104,558			
2011	10	-	-	9,817	1,602	1,340	12,758	6,328	10,674	15,104	13,924	48,905	94,936	-	-	-	-	-	-	-	-	-	-	-	-	-	107,694			
2012	11	-	-	10,111	1,650	1,380	13,141	6,518	10,994	15,557	14,342	50,372	97,784	-	-	-	-	-	-	-	-	-	-	-	-	-	110,925			
2013	12	-	-	10,415	1,699	1,422	13,535	6,714	11,324	16,024	14,772	51,883	100,717	-	-	-	-	-	-	-	-	-	-	-	-	-	114,253			
2014	13	-	-	10,727	1,750	1,464	13,942	6,915	11,664	16,505	15,216	53,440	103,739	-	-	-	-	-	-	-	-	-	-	-	-	-	117,680			
2015	14	-	-	11,049	1,803	1,508	14,360	7,122	12,014	17,000	15,672	55,043	106,851	-	-	-	-	-	-	-	-	-	-	-	-	-	121,211			
2016	15	-	-	11,380	1,857	1,554	14,791	7,336	12,374	17,510	16,142	56,694	110,057	-	-	-	-	-	-	-	-	-	-	-	-	-	124,847			
2017	16	-	-	11,722	1,912	1,600	15,234	7,556	12,745	18,035	16,626	58,395	113,358	-	-	-	-	-	-	-	-	-	-	-	-	-	128,593			
2018	17	-	-	12,073	1,970	1,648	15,691	7,783	13,128	18,576	17,125	60,147	116,759	-	-	-	-	-	-	-	-	-	-	-	-	-	132,450			
2019	18	-	-	12,436	2,029	1,698	16,162	8,016	13,521	19,134	17,639	61,951	120,262	-	-	-	-	-	-	-	-	-	-	-	-	-	136,424			
2020	19	-	-	12,809	2,090	1,749	16,647	8,257	13,927	19,708	18,168	63,810	123,870	-	-	-	-	-	-	-	-	-	-	-	-	-	140,517			
2021	20	-	-	13,193	2,152	1,801	17,146	8,505	14,345	20,299	18,713	65,724	127,586	-	-	-	-	-	-	-	-	-	-	-	-	-	144,732			
2022	21	-	-	13,589	2,217	1,855	17,661	8,760	14,775	20,908	19,275	67,696	131,413	-	-	-	-	-	-	-	-	-	-	-	-	-	149,074			
2023	22	-	-	13,996	2,284	1,911	18,191	9,022	15,219	21,535	19,853	69,727	135,356	-	-	-	-	-	-	-	-	-	-	-	-	-	153,546			
2024	23	-	-	14,416	2,352	1,968	18,736	9,293	15,675	22,181	20,448	71,819	139,417	-	-	-	-	-	-	-	-	-	-	-	-	-	158,153			
2025	24	-	-	14,849	2,423	2,027	19,298	9,572	16,145	22,847	21,062	73,973	143,599	-	-	-	-	-	-	-	-	-	-	-	-	-	162,897			
2026	25	-	-	15,294	2,495	2,088	19,877	9,859	16,630	23,532	21,694	76,192	147,907	-	-	-	-	-	-	-	-	-	-	-	-	-	167,784			
				122,835	20,041	16,768	159,645	79,184	133,562	188,998	174,234	611,942	1,187,920	-	-	-	-	-	-	-	-	-	-	-	-	-	1,347,565			

Discount Rate		7%		Year		OPTION				EXISTING RAIL TONNAGE										DIVERTED RAIL TONNAGE					EXTERNAL BENEFITS					TOTAL COSTS (BENEFITS)	TOTAL NET BENEFITS (COSTS)
		CAPITAL COSTS		INFRASTRUCTURE MAINTENANCE				RAIL OPERATING COSTS					NON-PRICE CUSTOMER BENEFITS					BENEFITS													
		Initial Capital	Residual Value	Track Maint	Sig & Coms Maint	Train Control	TOTAL	Crewing	Fuel	R'stock Maint.	R'stock Capital	Terminal+ PUD	TOTAL	Reliability	Transit Time	Service Availability	TOTAL	Producer Surplus	Customer Benefit	TOTAL	Road Damage	Air Pollut.	Green. Gases	Cong'n	Pass. Accidents	TOTAL					
2001	-	33,175	-	7,305	1,192	997	9,493	4,709	7,942	11,239	10,361	36,390	70,641	-	-	-	-	-	-	-	-	-	-	-	-	-	-	113,310	(33,175)		
2002	1	33,175	-	7,524	1,221	1,023	9,826	4,759	8,191	11,547	10,564	37,482	72,543	352	495	52	900	-	699	89	787	433	3	103	1	195	734	113,224	(30,685)		
2003	2	33,175	-	7,749	1,264	1,050	10,377	4,808	8,448	11,864	10,769	38,606	74,495	725	1,021	107	1,853	-	1,439	182	1,621	892	6	212	1	401	1,511	113,061	(28,046)		
2004	3	33,175	-	7,982	1,313	1,077	10,845	4,856	8,713	12,189	10,977	39,764	76,499	1,121	1,577	165	2,863	-	2,223	282	2,505	1,378	9	327	2	620	2,335	112,816	(25,251)		
2005	4	-	-	8,221	1,357	1,105	11,332	4,903	8,986	12,522	11,188	40,957	78,557	1,539	2,166	227	3,932	-	3,053	387	3,440	1,892	12	449	2	852	3,207	79,310	10,882		
2006	5	-	-	8,468	1,397	1,138	11,672	5,050	9,256	12,898	11,524	42,186	80,913	1,585	2,231	234	4,050	-	3,145	399	3,544	1,949	13	462	2	877	3,303	81,689	11,209		
2007	6	-	-	8,722	1,439	1,172	12,022	5,201	9,533	13,285	11,869	43,451	83,341	1,633	2,298	241	4,171	-	3,239	411	3,650	2,007	13	476	2	903	3,402	84,140	11,545		
2008	7	-	-	8,984	1,482	1,207	12,383	5,357	9,819	13,694	12,225	44,755	85,941	1,682	2,366	248	4,297	-	3,336	423	3,759	2,067	13	490	2	931	3,504	86,664	11,892		
2009	8	-	-	9,253	1,527	1,244	12,755	5,518	10,114	14,094	12,592	46,098	88,416	1,732	2,437	255	4,425	-	3,437	436	3,872	2,129	14	505	2	958	3,609	89,254	12,248		
2010	9	-	-	9,531	1,573	1,281	13,137	5,684	10,417	14,517	12,970	47,481	91,069	1,784	2,511	263	4,558	-	3,540	449	3,988	2,193	14	520	3	987	3,718	91,942	12,616		
2011	10	-	-	9,817	1,620	1,319	13,531	5,854	10,730	14,952	13,359	48,905	93,801	1,838	2,586	271	4,695	-	3,646	462	4,108	2,259	15	536	3	1,017	3,829	94,700	12,994		
2012	11	-	-	10,111	1,669	1,359	13,937	6,030	11,052	15,401	13,760	50,372	96,615	1,893	2,664	279	4,836	-	3,755	476	4,231	2,327	15	552	3	1,047	3,944	97,541	13,384		
2013	12	-	-	10,415	1,719	1,400	14,355	6,211	11,383	15,863	14,173	51,883	99,513	1,950	2,743	288	4,981	-	3,868	490	4,358	2,396	16	569	3	1,079	4,062	100,467	13,786		
2014	13	-	-	10,727	1,770	1,442	14,786	6,397	11,725	16,339	14,598	53,440	102,499	2,008	2,826	296	5,130	-	3,984	505	4,489	2,468	16	586	3	1,111	4,184	103,481	14,199		
2015	14	-	-	11,049	1,823	1,485	15,230	6,589	12,077	16,829	15,036	55,043	105,574	2,069	2,910	305	5,284	-	4,103	520	4,624	2,542	17	603	3	1,144	4,310	106,586	14,625		
2016	15	-	-	11,380	1,878	1,530	15,686	6,787	12,439	17,334	15,487	56,694	108,741	2,131	2,998	314	5,443	-	4,227	536	4,762	2,619	17	621	3	1,179	4,439	109,783	15,064		
2017	16	-	-	11,722	1,934	1,576	16,157	6,990	12,812	17,854	15,951	58,395	112,003	2,195	3,088	324	5,606	-	4,353	552	4,905	2,697	18	640	3	1,214	4,572	113,077	15,516		
2018	17	-	-	12,073	1,992	1,623	16,642	7,200	13,196	18,390	16,430	60,147	115,363	2,261	3,180	333	5,774	-	4,484	568	5,052	2,778	18	659	3	1,251	4,709	116,469	15,981		
2019	18	-	-	12,436	2,052	1,671	17,141	7,416	13,592	18,941	16,923	61,951	118,824	2,328	3,276	343	5,947	-	4,618	585	5,204	2,862	19	679	3	1,288	4,851	119,563	16,461		
2020	19	-	-	12,809	2,114	1,722	17,655	7,639	14,000	19,510	17,431	63,810	122,389	2,398	3,374	354	6,126	-	4,757	603	5,3										

# Melbourne - Adelaide Market Segment (Combined Benefits)

Scenario : S2

Discount Rate		7%		Year		BASE CASE		INFRASTRUCTURE MAINTENANCE				EXISTING RAIL TONNAGE					NON-PRICE CUSTOMER BENEFITS			DIVERTED RAIL TONNAGE			EXTERNAL BENEFITS					TOTAL COSTS (BENEFITS)																
		CAPITAL COSTS						Track Maint		Sig & Coms Maint		Train Control		TOTAL		RAIL OPERATING COSTS		Reliab-ility		Transit Time		Service Availability		TOTAL		Producer Surplus		Customer Benefit		TOTAL		Road Damage		Air Pollut.		Green. Gases		Cong'n		Pass. Accidents		TOTAL		TOTAL COSTS (BENEFITS)
2001	-	-	-	-	-	-	-	7,305	1,192	997	9,493	4,709	7,942	11,239	10,361	36,390	70,641	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	80,135		
2002	1	-	-	-	-	-	-	7,524	1,228	1,027	9,778	4,850	8,181	11,576	10,672	37,482	72,760	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	82,539		
2003	2	-	-	-	-	-	-	7,749	1,264	1,058	10,072	4,996	8,426	11,923	10,992	38,606	74,943	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	85,015		
2004	3	-	-	-	-	-	-	7,982	1,302	1,090	10,374	5,145	8,679	12,281	11,322	39,764	77,192	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	87,565		
2005	4	-	-	-	-	-	-	8,221	1,341	1,122	10,685	5,300	8,938	12,650	11,661	40,957	79,507	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	90,192		
2006	5	-	-	-	-	-	-	8,468	1,382	1,156	11,006	5,459	9,207	13,029	12,011	42,186	81,893	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	92,899		
2007	6	-	-	-	-	-	-	8,722	1,423	1,191	11,336	5,622	9,484	13,420	12,372	43,451	84,349	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	95,685		
2008	7	-	-	-	-	-	-	8,984	1,466	1,226	11,676	5,791	9,768	13,823	12,743	44,755	86,880	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	98,556		
2009	8	-	-	-	-	-	-	9,253	1,510	1,263	12,026	5,965	10,061	14,237	13,125	46,098	89,486	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	101,512		
2010	9	-	-	-	-	-	-	9,531	1,555	1,301	12,387	6,144	10,363	14,664	13,519	47,481	92,171	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	104,558		
2011	10	-	-	-	-	-	-	9,817	1,602	1,340	12,758	6,328	10,674	15,104	13,924	48,905	94,938	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	107,694		
2012	11	-	-	-	-	-	-	10,111	1,650	1,380	13,141	6,518	10,994	15,557	14,342	50,372	97,784	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	110,925		
2013	12	-	-	-	-	-	-	10,415	1,699	1,422	13,535	6,714	11,324	16,024	14,772	51,883	100,717	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	114,253		
2014	13	-	-	-	-	-	-	10,727	1,750	1,464	13,942	6,915	11,664	16,505	15,216	53,440	103,739	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	117,680		
2015	14	-	-	-	-	-	-	11,049	1,803	1,508	14,360	7,122	12,014	17,000	15,672	55,043	106,851	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	121,211		
2016	15	-	-	-	-	-	-	11,380	1,857	1,554	14,791	7,336	12,374	17,510	16,142	56,694	110,057	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	124,847		
2017	16	-	-	-	-	-	-	11,722	1,912	1,600	15,234	7,556	12,745	18,035	16,626	58,395	113,358	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	128,593		
2018	17	-	-	-	-	-	-	12,073	1,970	1,648	15,691	7,783	13,128	18,576	17,125	60,147	116,759	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	132,450		
2019	18	-	-	-	-	-	-	12,436	2,029	1,698	16,162	8,016	13,521	19,134	17,639	61,951	120,262	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	138,424		
2020	19	-	-	-	-	-	-	12,809	2,090	1,749	16,647	8,257	13,927	19,708	18,168	63,810	123,870	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	140,517		
2021	20	-	-	-	-	-	-	13,193	2,152	1,801	17,146	8,505	14,345	20,299	18,713	65,724	127,586	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	144,732		
2022	21	-	-	-	-	-	-	13,589	2,217	1,855	17,661	8,760	14,775	20,908	19,275	67,696	131,413	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	149,074		
2023	22	-	-	-	-	-	-	13,996	2,284	1,911	18,191	9,022	15,219	21,535	19,853	69,727	135,356	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	153,546		
2024	23	-	-	-	-	-	-	14,416	2,352	1,968	18,736	9,293	15,675	22,181	20,448	71,819	139,417	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	158,153		
2025	24	-	-	-	-	-	-	14,849	2,423	2,027	19,298	9,572	16,145	22,847	21,062	73,973	143,599	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	162,897		
2026	25	-	-	-	-	-	-	15,294	2,495	2,088	19,877	9,859	16,630	23,532	21,694	76,192	147,907	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	167,784		
								122,835	20,041	16,768	159,645	79,184	133,562	188,998	174,234	611,942	1,187,920	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1,347,565		

Discount Rate		7%		Year		OPTION		INFRASTRUCTURE MAINTENANCE				EXISTING RAIL TONNAGE					NON-PRICE CUSTOMER BENEFITS			DIVERTED RAIL TONNAGE			EXTERNAL BENEFITS					TOTAL COSTS (BENEFITS)	TOTAL NET BENEFITS (COSTS)																
		CAPITAL COSTS						Track Maint		Sig & Coms Maint		Train Control		TOTAL		RAIL OPERATING COSTS		Reliab-ility		Transit Time		Service Availability		TOTAL		Producer Surplus		Customer Benefit		TOTAL		Road Damage		Air Pollut.		Green. Gases		Cong'n		Pass. Accidents		TOTAL		TOTAL COSTS (BENEFITS)	TOTAL NET BENEFITS (COSTS)
2001	-	90,000	-	-	-	-	-	7,305	1,192	997	9,493	4,709	7,942	11,239	10,361	36,390	70,641	-	-	387	587	160	1,134	-	-	636	158	794	416	3	99	0	187	705	-	-	-	-	-	-	170,135	(90,000)			
2002	1	90,000	-	-	-	-	-	7,573	1,243	1,014	9,930	4,733	8,199	11,518	10,515	37,482	72,446	-	-	798	1,210	329	2,336	-	-	1,310	326	1,636	857	5	203	1	386	1,452	169,258	(84,243)	-	-	-	-	-	-	169,744	(87,205)	
2003	2	90,000	-	-	-	-	-	8,057	1,297	1,031	10,385	4,755	8,463	11,804	10,668	38,606	74,296	-	-	798	1,210	329	2,336	-	-	1,310	326	1,636	857	5	203	1	386	1,452	169,258	(84,243)	-	-	-	-	-	-	169,744	(87,205)	
2004	3	90,000	-	-	-	-	-	8,458	1,352	1,048	10,858	4,774	8,736	12,097	10,821	39,764	76,192	-	-	1,232	1,869	508	3,609	-	-	2,023	504	2,527	1,324	8	314	2	596	2,243	168,671	(81,105)	-	-	-	-	-	-	168,671	(81,105)	
2005	4	90,000	-	-	-	-	-	8,875	1,410	1,065	11,350	4,790	9,017	12,397	10,974	40,957	78,134	-	-	1,692	2,567	697	4,957	-	-	2,779	692	3,470	1,818	12	431	2	818	3,081	167,977	(77,785)	-	-	-	-	-	-	167,977	(77,785)	
2006	5	90,000	-	-	-	-	-	9,309	1,470	1,082	11,862	4,802	9,308	12,703	11,26	42,186	80,125	-	-	2,179	3,305	898	6,382	-	-	3,578	891	4,468	2,340	15	555	3	1,054	3,966	167,171	(74,273)	-	-	-	-	-	-	167,171	(74,273)	
2007	6	90,000	-	-	-	-	-	9,762	1,533	1,100	12,394	4,811	9,608	13,017	11,277	43,451	82,165	-	-	2,693	4,085	1,110	7,888	-	-	4,422	1,101	5,523	2,893	18	686	3	1,302	4,903	166,246	(70,561)	-	-	-	-	-	-	166,246	(70,561)	
2008	7	90,000	-	-	-	-	-	10,233	1,598	1,117	12,948	4,816	9,918	13,339	11,427	44,755	84,255	-	-	3,236	4,908	1,334	9,478	-	-	5,314	1,323	6,637	3,476	22	824	4	1,565	5,891	165,196	(66,641)	-	-	-	-	-	-	165,196	(66,641)	
2009	8	90,000	-	-	-	-	-	10,724	1,655	1,135	13,523	4,817	10,237	13,668	11,577	46,098	86,966	-	-	3,810	5,778	1,570	11,157	-	-	6,255	1,557	7,812	4,092	26	970	5	1,842	6,935	164,015	(62,503)	-	-	-	-	-	-	164,015	(62,503)	
2010	9	-	-	-	-	-	-	11,235	1,735	1,152	14,122	4,813	10,567	14,004	11,725	47,481	88,590	-	-	4,414	6,695	1,819	12,928	-	-																				

# Melbourne - Perth Market Segment (Combined Benefits)

Scenario : ATC

Discount Rate		BASE CASE				EXISTING RAIL TONNAGE										DIVERTED RAIL TONNAGE			EXTERNAL BENEFITS					TOTAL COSTS (BENEFITS)					
7%		CAPITAL COSTS		INFRASTRUCTURE MAINTENANCE		RAIL OPERATING COSTS					NON-PRICE CUSTOMER BENEFITS					BENEFITS			Road Damage	Air Pollut.	Green. Gases	Cong'n	Pass. Accidents	TOTAL	TOTAL COSTS (BENEFITS)				
Year	Year No.	Capital works	Residual Value	Track Maint	Sig & Coms Maint	Train Control	TOTAL	Crewing	Fuel	R'stock Maint.	R'stock Capital	Terminal+ PUD	TOTAL	Reliab- ility	Transit Time	Service Availability	TOTAL	Producer Surplus	Customer Benefit	TOTAL	Road Damage	Air Pollut.	Green. Gases	Cong'n	Pass. Accidents	TOTAL	TOTAL COSTS (BENEFITS)		
2001	-	-	-	31,823	4,041	2,934	38,797	13,855	26,057	39,233	34,421	61,062	174,628	-	-	-	-	-	-	-	-	-	-	-	-	-	-	213,425	
2002	1	-	-	32,777	4,162	3,022	39,961	14,270	26,839	40,409	35,454	62,894	179,866	-	-	-	-	-	-	-	-	-	-	-	-	-	-	219,827	
2003	2	-	-	33,761	4,287	3,113	41,160	14,698	27,644	41,622	36,518	64,781	185,262	-	-	-	-	-	-	-	-	-	-	-	-	-	-	226,422	
2004	3	-	-	34,773	4,415	3,206	42,395	15,139	28,473	42,870	37,613	66,724	190,820	-	-	-	-	-	-	-	-	-	-	-	-	-	-	233,215	
2005	4	-	-	35,817	4,548	3,302	43,667	15,593	29,327	44,157	38,742	68,726	196,545	-	-	-	-	-	-	-	-	-	-	-	-	-	-	240,211	
2006	5	-	-	36,891	4,684	3,401	44,977	16,061	30,207	45,481	39,904	70,788	202,441	-	-	-	-	-	-	-	-	-	-	-	-	-	-	247,418	
2007	6	-	-	37,998	4,825	3,503	46,326	16,543	31,113	46,846	41,101	72,911	208,514	-	-	-	-	-	-	-	-	-	-	-	-	-	-	254,840	
2008	7	-	-	39,138	4,969	3,608	47,716	17,039	32,047	48,251	42,334	75,099	214,770	-	-	-	-	-	-	-	-	-	-	-	-	-	-	262,486	
2009	8	-	-	40,312	5,119	3,717	49,147	17,550	33,008	49,699	43,604	77,352	221,213	-	-	-	-	-	-	-	-	-	-	-	-	-	-	270,360	
2010	9	-	-	41,521	5,272	3,828	50,622	18,077	33,998	51,190	44,912	79,672	227,849	-	-	-	-	-	-	-	-	-	-	-	-	-	-	278,471	
2011	10	-	-	42,767	5,430	3,943	52,140	18,619	35,018	52,725	46,260	82,063	234,685	-	-	-	-	-	-	-	-	-	-	-	-	-	-	286,825	
2012	11	-	-	44,050	5,593	4,061	53,704	19,178	36,069	54,307	47,647	84,524	241,725	-	-	-	-	-	-	-	-	-	-	-	-	-	-	295,030	
2013	12	-	-	45,372	5,761	4,183	55,316	19,753	37,151	55,936	49,077	87,060	248,977	-	-	-	-	-	-	-	-	-	-	-	-	-	-	304,293	
2014	13	-	-	46,733	5,934	4,309	56,975	20,346	38,265	57,614	50,549	89,672	256,446	-	-	-	-	-	-	-	-	-	-	-	-	-	-	313,421	
2015	14	-	-	48,135	6,112	4,438	58,684	20,956	39,413	59,343	52,065	92,362	264,140	-	-	-	-	-	-	-	-	-	-	-	-	-	-	322,824	
2016	15	-	-	49,579	6,295	4,571	60,445	21,585	40,596	61,123	53,627	95,133	272,064	-	-	-	-	-	-	-	-	-	-	-	-	-	-	332,509	
2017	16	-	-	51,066	6,484	4,708	62,258	22,232	41,814	62,957	55,236	97,987	280,226	-	-	-	-	-	-	-	-	-	-	-	-	-	-	342,484	
2018	17	-	-	52,598	6,679	4,849	64,126	22,899	43,068	64,845	56,993	100,927	288,633	-	-	-	-	-	-	-	-	-	-	-	-	-	-	352,759	
2019	18	-	-	54,176	6,879	4,995	66,050	23,586	44,360	66,791	58,500	103,954	297,292	-	-	-	-	-	-	-	-	-	-	-	-	-	-	363,341	
2020	19	-	-	55,801	7,085	5,145	68,031	24,294	45,691	68,794	60,358	107,073	306,210	-	-	-	-	-	-	-	-	-	-	-	-	-	-	374,242	
2021	20	-	-	57,475	7,298	5,299	70,072	25,023	47,062	70,858	62,169	110,285	315,397	-	-	-	-	-	-	-	-	-	-	-	-	-	-	385,469	
2022	21	-	-	59,200	7,517	5,458	72,174	25,773	48,473	72,984	64,034	113,594	324,859	-	-	-	-	-	-	-	-	-	-	-	-	-	-	397,033	
2023	22	-	-	60,976	7,742	5,622	74,339	26,547	49,928	75,174	65,955	117,002	334,604	-	-	-	-	-	-	-	-	-	-	-	-	-	-	408,944	
2024	23	-	-	62,805	7,975	5,790	76,570	27,343	51,426	77,429	67,934	120,512	344,643	-	-	-	-	-	-	-	-	-	-	-	-	-	-	421,212	
2025	24	-	-	64,689	8,214	5,964	78,867	28,163	52,968	79,752	69,872	124,127	354,862	-	-	-	-	-	-	-	-	-	-	-	-	-	-	433,849	
2026	25	-	-	66,630	8,460	6,143	81,233	29,008	54,557	82,144	72,071	127,851	365,631	-	-	-	-	-	-	-	-	-	-	-	-	-	-	446,864	
				535,138	67,948	49,337	652,423	232,981	438,179	659,744	578,839	1,026,837	2,936,580	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3,589,003

Discount Rate		OPTION				EXISTING RAIL TONNAGE										DIVERTED RAIL TONNAGE			EXTERNAL BENEFITS					TOTAL COSTS (BENEFITS)	TOTAL NET BENEFITS (COSTS)				
7%		CAPITAL COSTS		INFRASTRUCTURE MAINTENANCE		RAIL OPERATING COSTS					NON-PRICE CUSTOMER BENEFITS					BENEFITS			Road Damage	Air Pollut.	Green. Gases	Cong'n	Pass. Accidents	TOTAL	TOTAL COSTS (BENEFITS)	TOTAL NET BENEFITS (COSTS)			
Year	Year No.	Initial Capital	Residual Value	Track Maint	Sig & Coms Maint	Train Control	TOTAL	Crewing	Fuel	R'stock Maint.	R'stock Capital	Terminal+ PUD	TOTAL	Reliab- ility	Transit Time	Service Availability	TOTAL	Producer Surplus	Customer Benefit	TOTAL	Road Damage	Air Pollut.	Green. Gases	Cong'n	Pass. Accidents	TOTAL	TOTAL COSTS (BENEFITS)	TOTAL NET BENEFITS (COSTS)	
2001	-	36,078	-	31,823	4,041	2,934	38,797	13,855	26,057	39,233	34,421	61,062	174,628	-	-	-	-	-	-	-	-	-	-	-	-	-	-	249,503	(36,078)
2002	1	36,078	-	33,009	4,177	3,024	40,210	14,192	26,847	40,381	35,339	62,894	179,854	641	453	218	1,313	-	457	81	537	428	1	99	0	194	722	253,371	(33,543)
2003	2	36,078	-	34,239	4,318	3,116	41,673	14,538	27,662	41,564	36,281	64,781	184,825	1,321	934	450	2,704	-	940	166	1,107	881	2	204	0	399	1,486	257,279	(30,857)
2004	3	36,078	-	35,512	4,463	3,212	43,187	14,891	28,501	42,781	37,248	66,724	190,145	2,040	1,443	694	4,173	-	1,453	257	1,710	1,361	3	316	1	616	2,296	261,226	(28,011)
2005	4	36,078	-	36,831	4,614	3,310	44,755	15,253	29,365	44,034	38,240	68,726	195,618	2,802	1,982	954	5,737	-	1,996	353	2,348	1,869	4	433	1	846	3,154	265,211	(24,999)
2006	5	36,078	-	38,197	4,769	3,411	46,378	15,623	30,256	45,324	39,257	70,788	201,247	3,607	2,551	1,228	7,387	-	2,569	454	3,023	2,406	6	558	1	1,089	4,060	269,232	(21,814)
2007	6	36,078	-	39,612	4,930	3,515	48,057	16,001	31,173	46,651	40,302	72,912	207,039	4,459	3,153	1,518	9,130	-	3,176	561	3,737	2,974	7	690	1	1,347	5,019	273,288	(18,448)
2008	7	36,078	-	41,078	5,096	3,623	49,796	16,388	32,119	48,017	41,374	75,099	212,997	5,358	3,789	1,824	10,971	-	3,816	675	4,491	3,574	8	829	2	1,618	6,031	277,378	(14,893)
2009	8	36,078	-	42,596	5,267	3,734	51,596	16,784	33,083	49,223	42,474	77,352	219,126	6,307	4,460	2,147	12,914	-	4,492	794	5,286	4,207	10	976	2	1,905	7,099	281,500	(11,140)
2010	9	-	-	44,168	5,444	3,848	53,460	17,189	34,097	50,870	43,603	79,673	225,431	7,308	5,169	2,488	14,965	-	5,205	920	6,125	4,875	12	1,130	2	2,207	8,226	249,574	28,897
2011	10	-	-	45,493	5,607	3,964	55,064	17,704	35,120	52,966	44,911	82,063	232,193	7,528	5,324	2,562	15,414	-	5,361	948	6,309	5,021	12	1,164	2	2,273	8,473	257,062	29,763
2012	11	-	-	46,857	5,776	4,082	56,715	18,235	36,173	53,968	46,258	84,525	239,159	7,753	5,483	2,639	16,576	-	5,522	976	6,498	5,172	12	1,199	2	2,341	8,727	264,773	30,656
2013	12	-	-	48,263	5,949	4,205	58,417	18,782	37,258	55,587	47,646	87,060	246,334	7,986	5,648	2,718	18,352	-	5,688	1,005	6,693	5,327	13	1,235	2	2,412	8,989	272,717	31,576
2014	13	-	-	49,711	6,127	4,331	60,169	19,346	38,376	57,255	49,075	89,672	253,724	8,226	5,817	2,800	19,843	-	5,888	1,036	6,894	5,487	13	1,272	2	2,484	9,259	280,898	32,523
2015	14	-	-	51,202	6,311	4,461	61,974	19,926	39,527	58,972	50,547	92,362	261,336	8,472	5,982	2,884	21,348	-	6,024	1,067	7,101	5,651	13	1,311	3	2,559	9,536	289,325	33,499
2016	15	-	-	52,738	6,501	4,595	63,834	20,524	40,713	60,742	52,064	95,133	269,176	8,726	6,172	2,971	22,869	-	6,215	1,099	7,314	5,821	14	1,350	2	2,635	9,822	298,005	34,504
2017	16	-	-	54,320	6,696	4,733	65,749	21,140	41,935	62,564	53,626	97,987	277,251	8,988	6,357	3,060	24,815	-	6,402	1,132	7,533	5,996	14	1,390	3	2,714	10,117	306,945	35,539
2018	17	-	-	55,950	6,896	4,875	67,721	21,774	43,193	64,441	55,235	100,927	285,569	9,258	6,547	3,151	26,857	-	6,594	1,166	7,759	6,176	15	1,432	3	2,796	10,421	316,153	36,

# Melbourne - Perth Market Segment (Combined Benefits)

Scenario : S1

Discount Rate		BASE CASE				EXISTING RAIL TONNAGE										DIVERTED RAIL TONNAGE			EXTERNAL BENEFITS					TOTAL COSTS (BENEFITS)				
7%		CAPITAL COSTS		INFRASTRUCTURE MAINTENANCE		RAIL OPERATING COSTS					NON-PRICE CUSTOMER BENEFITS					BENEFITS			Road Damage	Air Pollut.	Green. Gases	Cong'n	Pass. Accidents	TOTAL	TOTAL COSTS (BENEFITS)			
Year	Year No.	Capital works	Residual Value	Track Maint	Sig & Coms Maint	Train Control	TOTAL	Crewing	Fuel	R'stock Maint.	R'stock Capital	Terminal+ PUD	TOTAL	Reliab- ility	Transit Time	Service Availability	TOTAL	Producer Surplus	Customer Benefit	TOTAL	Road Damage	Air Pollut.	Green. Gases	Cong'n	Pass. Accidents	TOTAL	TOTAL COSTS (BENEFITS)	
2001	-	-	-	31,823	4,041	2,934	38,797	13,855	26,057	39,233	34,421	61,062	174,628	-	-	-	-	-	-	-	-	-	-	-	-	-	-	213,425
2002	1	-	-	32,777	4,162	3,022	39,961	14,270	26,839	40,409	35,454	62,894	179,866	-	-	-	-	-	-	-	-	-	-	-	-	-	-	219,827
2003	2	-	-	33,761	4,287	3,113	41,160	14,698	27,644	41,622	36,518	64,781	185,262	-	-	-	-	-	-	-	-	-	-	-	-	-	-	226,422
2004	3	-	-	34,773	4,415	3,206	42,395	15,139	28,473	42,870	37,613	66,724	190,820	-	-	-	-	-	-	-	-	-	-	-	-	-	-	233,215
2005	4	-	-	35,817	4,548	3,302	43,667	15,593	29,327	44,157	38,742	68,726	196,545	-	-	-	-	-	-	-	-	-	-	-	-	-	-	240,211
2006	5	-	-	36,891	4,684	3,401	44,977	16,061	30,207	45,481	39,904	70,788	202,441	-	-	-	-	-	-	-	-	-	-	-	-	-	-	247,418
2007	6	-	-	37,998	4,825	3,503	46,326	16,543	31,113	46,846	41,101	72,911	208,514	-	-	-	-	-	-	-	-	-	-	-	-	-	-	254,840
2008	7	-	-	39,138	4,969	3,608	47,716	17,039	32,047	48,251	42,334	75,099	214,770	-	-	-	-	-	-	-	-	-	-	-	-	-	-	262,486
2009	8	-	-	40,312	5,119	3,717	49,147	17,550	33,008	49,699	43,604	77,352	221,213	-	-	-	-	-	-	-	-	-	-	-	-	-	-	270,360
2010	9	-	-	41,521	5,272	3,828	50,622	18,077	33,998	51,190	44,912	79,672	227,849	-	-	-	-	-	-	-	-	-	-	-	-	-	-	278,471
2011	10	-	-	42,767	5,430	3,943	52,140	18,619	35,018	52,725	46,260	82,063	234,685	-	-	-	-	-	-	-	-	-	-	-	-	-	-	286,825
2012	11	-	-	44,050	5,593	4,061	53,704	19,178	36,069	54,307	47,647	84,524	241,725	-	-	-	-	-	-	-	-	-	-	-	-	-	-	295,430
2013	12	-	-	45,372	5,761	4,183	55,316	19,753	37,151	55,936	49,077	87,060	248,977	-	-	-	-	-	-	-	-	-	-	-	-	-	-	304,293
2014	13	-	-	46,733	5,934	4,309	56,975	20,346	38,265	57,614	50,549	89,672	256,446	-	-	-	-	-	-	-	-	-	-	-	-	-	-	313,421
2015	14	-	-	48,135	6,112	4,438	58,684	20,956	39,413	59,343	52,065	92,362	264,140	-	-	-	-	-	-	-	-	-	-	-	-	-	-	322,824
2016	15	-	-	49,579	6,295	4,571	60,445	21,585	40,596	61,123	53,627	95,133	272,064	-	-	-	-	-	-	-	-	-	-	-	-	-	-	332,509
2017	16	-	-	51,066	6,484	4,708	62,258	22,232	41,814	62,957	55,236	97,987	280,226	-	-	-	-	-	-	-	-	-	-	-	-	-	-	342,484
2018	17	-	-	52,598	6,679	4,849	64,126	22,899	43,068	64,845	56,993	100,927	288,633	-	-	-	-	-	-	-	-	-	-	-	-	-	-	352,759
2019	18	-	-	54,176	6,879	4,995	66,050	23,586	44,360	66,791	58,600	103,954	297,292	-	-	-	-	-	-	-	-	-	-	-	-	-	-	363,341
2020	19	-	-	55,801	7,085	5,145	68,031	24,294	45,691	68,794	60,358	107,073	306,210	-	-	-	-	-	-	-	-	-	-	-	-	-	-	374,242
2021	20	-	-	57,475	7,298	5,299	70,072	25,023	47,062	70,858	62,169	110,285	315,397	-	-	-	-	-	-	-	-	-	-	-	-	-	-	385,649
2022	21	-	-	59,200	7,517	5,458	72,174	25,773	48,473	72,984	64,034	113,594	324,859	-	-	-	-	-	-	-	-	-	-	-	-	-	-	397,033
2023	22	-	-	60,976	7,742	5,622	74,339	26,547	49,928	75,174	65,955	117,002	334,604	-	-	-	-	-	-	-	-	-	-	-	-	-	-	408,944
2024	23	-	-	62,805	7,975	5,790	76,570	27,343	51,426	77,429	67,934	120,512	344,643	-	-	-	-	-	-	-	-	-	-	-	-	-	-	421,212
2025	24	-	-	64,689	8,214	5,964	78,867	28,163	52,968	79,752	69,872	124,127	354,862	-	-	-	-	-	-	-	-	-	-	-	-	-	-	433,849
2026	25	-	-	66,630	8,460	6,143	81,233	29,008	54,557	82,144	72,071	127,851	365,631	-	-	-	-	-	-	-	-	-	-	-	-	-	-	446,864
				535,138	67,948	49,337	652,423	232,981	438,179	659,744	578,839	1,026,837	2,936,580	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3,589,003

Discount Rate		OPTION				EXISTING RAIL TONNAGE										DIVERTED RAIL TONNAGE			EXTERNAL BENEFITS					TOTAL COSTS (BENEFITS)	TOTAL NET BENEFITS (COSTS)				
7%		CAPITAL COSTS		INFRASTRUCTURE MAINTENANCE		RAIL OPERATING COSTS					NON-PRICE CUSTOMER BENEFITS					BENEFITS			Road Damage	Air Pollut.	Green. Gases	Cong'n	Pass. Accidents	TOTAL	TOTAL COSTS (BENEFITS)	TOTAL NET BENEFITS (COSTS)			
Year	Year No.	Initial Capital	Residual Value	Track Maint	Sig & Coms Maint	Train Control	TOTAL	Crewing	Fuel	R'stock Maint.	R'stock Capital	Terminal+ PUD	TOTAL	Reliab- ility	Transit Time	Service Availability	TOTAL	Producer Surplus	Customer Benefit	TOTAL	Road Damage	Air Pollut.	Green. Gases	Cong'n	Pass. Accidents	TOTAL	TOTAL COSTS (BENEFITS)	TOTAL NET BENEFITS (COSTS)	
2001	-	7,000	-	31,823	4,041	2,934	38,797	13,855	26,057	39,233	34,421	61,062	174,628	-	-	-	-	-	-	-	-	-	-	-	-	-	-	220,425	(7,000)
2002	1	7,000	-	33,083	4,170	3,039	40,292	14,228	26,853	40,405	35,393	62,894	179,774	1,110	167	273	1,549	-	646	60	706	543	1	126	0	246	916	223,894	(4,067)
2003	2	7,000	-	34,391	4,303	3,147	41,841	14,612	27,674	41,612	36,393	64,781	185,072	2,286	344	562	3,192	-	1,330	124	1,454	1,118	3	260	1	506	1,887	227,380	(958)
2004	3	7,000	-	35,747	4,441	3,259	43,447	15,006	28,520	42,856	37,420	66,724	190,527	3,532	531	868	4,931	-	2,055	191	2,246	1,727	5	401	1	782	2,916	230,880	2,335
2005	4	-	-	37,153	4,583	3,375	45,111	15,411	29,392	44,136	38,476	68,726	196,142	4,850	729	1,193	6,772	-	2,822	263	3,085	2,372	6	551	1	1,074	4,005	227,391	12,820
2006	5	-	-	38,268	4,720	3,476	46,465	15,873	30,274	45,460	39,631	70,788	202,026	4,996	751	1,228	6,975	-	2,907	270	3,177	2,443	7	568	1	1,107	4,125	234,213	13,205
2007	6	-	-	39,416	4,862	3,581	47,859	16,349	31,182	46,824	40,820	72,912	208,087	5,146	773	1,265	7,184	-	2,994	279	3,273	2,516	7	585	1	1,140	4,249	241,240	13,601
2008	7	-	-	40,598	5,008	3,688	49,294	16,840	32,118	48,229	42,044	75,099	214,329	5,300	797	1,303	7,400	-	3,084	287	3,371	2,592	7	602	1	1,174	4,376	248,477	14,009
2009	8	-	-	41,816	5,158	3,799	50,773	17,345	33,081	49,676	43,308	77,352	220,759	5,459	821	1,342	7,622	-	3,177	295	3,472	2,669	7	621	1	1,209	4,507	255,331	14,429
2010	9	-	-	43,071	5,313	3,913	52,296	17,865	34,074	51,166	44,605	79,673	227,382	5,623	845	1,383	7,850	-	3,272	304	3,576	2,749	7	639	1	1,245	4,643	263,609	14,862
2011	10	-	-	44,363	5,472	4,030	53,865	18,401	35,096	52,701	45,943	82,063	234,204	5,791	870	1,424	8,086	-	3,370	313	3,684	2,832	8	658	1	1,283	4,782	271,517	15,308
2012	11	-	-	45,694	5,636	4,151	55,481	18,953	36,149	54,282	47,321	84,525	241,230	5,965	897	1,467	8,308	-	3,471	323	3,794	2,917	8	678	1	1,321	4,925	279,663	15,767
2013	12	-	-	47,064	5,806	4,276	57,146	19,522	37,233	55,911	48,741	87,060	248,467	6,144	924	1,511	8,578	-	3,575	333	3,908	3,004	8	698	1	1,361	5,073	288,053	16,240
2014	13	-	-	48,476	5,980	4,404	58,860	20,107	38,350	57,588	50,203	89,672	255,921	6,328	951	1,556	8,836	-	3,683	343	4,025	3,095	8	719	1	1,402	5,225	296,694	16,727
2015	14	-	-	49,931	6,159	4,536	60,626	20,711	39,501	59,315	51,709	92,362	263,598	6,518	980	1,603	9,101	-	3,793	353	4,146	3,187	9	741	2	1,444	5,382	305,595	17,229
2016	15	-	-	51,429	6,344	4,672	62,445	21,332	40,696	61,095	53,260	95,133	271,506	6,714	1,009	1,651	9,374	-	3,907	363	4,270	3,283	9	763	2	1,487	5,544	314,763	17,746
2017	16	-	-	52,971	6,534	4,812	64,318	21,972	41,906	62,928	54,858	97,987	279,651	6,915	1,039	1,700	9,655	-	4,024	374	4,398	3,381	9	786	2	1,532	5,710	324,206	18,278
2018	17	-	-	54,561	6,730	4,957	66,247	22,631	43,164	64,816	56,504	100,927	288,041	7,123	1,071	1,751	9,945	-	4,145	386	4,530	3,483	9	810	2	1,578	5,881	333,932	18,827
2019	18	-	-	56,197	6,932	5,105	68,235	23,310	44,459	66,780																			

# Melbourne - Perth Market Segment (Combined Benefits)

Scenario : So

Discount Rate		BASE CASE				EXISTING RAIL TONNAGE										DIVERTED RAIL TONNAGE			EXTERNAL BENEFITS					TOTAL COSTS (BENEFITS)				
7%		CAPITAL COSTS		INFRASTRUCTURE MAINTENANCE		RAIL OPERATING COSTS					NON-PRICE CUSTOMER BENEFITS					BENEFITS			Road Damage	Air Pollut.	Green. Gases	Cong'n	Pass. Accidents	TOTAL	TOTAL COSTS (BENEFITS)			
Year	Year No.	Capital works	Residual Value	Track Maint	Big & Com's Maint	Train Control	TOTAL	Crewing	Fuel	R'stock Maint.	R'stock Capital	Terminal+ PUD	TOTAL	Reliability	Transit Time	Service Availability	TOTAL	Producer Surplus	Customer Benefit	TOTAL	Road Damage	Air Pollut.	Green. Gases	Cong'n	Pass. Accidents	TOTAL	TOTAL COSTS (BENEFITS)	
2001	-	-	-	31,823	4,041	2,934	38,797	13,855	26,057	39,233	34,421	61,062	174,628	-	-	-	-	-	-	-	-	-	-	-	-	-	-	213,425
2002	1	-	-	32,777	4,162	3,022	39,961	14,270	26,839	40,409	35,454	62,894	179,866	-	-	-	-	-	-	-	-	-	-	-	-	-	219,827	
2003	2	-	-	33,761	4,287	3,113	41,160	14,698	27,644	41,622	36,518	64,781	185,262	-	-	-	-	-	-	-	-	-	-	-	-	-	226,422	
2004	3	-	-	34,773	4,415	3,206	42,395	15,139	28,473	42,870	37,613	66,724	190,820	-	-	-	-	-	-	-	-	-	-	-	-	-	233,215	
2005	4	-	-	35,817	4,548	3,302	43,667	15,593	29,327	44,157	38,742	68,726	196,545	-	-	-	-	-	-	-	-	-	-	-	-	-	240,211	
2006	5	-	-	36,891	4,684	3,401	44,977	16,061	30,207	45,481	39,904	70,788	202,441	-	-	-	-	-	-	-	-	-	-	-	-	-	247,418	
2007	6	-	-	37,998	4,825	3,503	46,326	16,543	31,113	46,846	41,101	72,911	208,514	-	-	-	-	-	-	-	-	-	-	-	-	-	254,840	
2008	7	-	-	39,138	4,969	3,608	47,716	17,039	32,047	48,251	42,334	75,099	214,770	-	-	-	-	-	-	-	-	-	-	-	-	-	262,486	
2009	8	-	-	40,312	5,119	3,717	49,147	17,550	33,008	49,699	43,604	77,352	221,213	-	-	-	-	-	-	-	-	-	-	-	-	-	270,360	
2010	9	-	-	41,521	5,272	3,828	50,622	18,077	33,998	51,190	44,912	79,672	227,849	-	-	-	-	-	-	-	-	-	-	-	-	-	278,471	
2011	10	-	-	42,767	5,430	3,943	52,140	18,619	35,018	52,725	46,260	82,063	234,685	-	-	-	-	-	-	-	-	-	-	-	-	-	286,825	
2012	11	-	-	44,050	5,593	4,061	53,704	19,178	36,069	54,307	47,647	84,524	241,725	-	-	-	-	-	-	-	-	-	-	-	-	-	295,030	
2013	12	-	-	45,372	5,761	4,183	55,316	19,753	37,151	55,936	49,077	87,060	248,977	-	-	-	-	-	-	-	-	-	-	-	-	-	304,293	
2014	13	-	-	46,733	5,934	4,309	56,975	20,346	38,265	57,614	50,549	89,672	256,446	-	-	-	-	-	-	-	-	-	-	-	-	-	313,421	
2015	14	-	-	48,135	6,112	4,438	58,684	20,956	39,413	59,343	52,065	92,362	264,140	-	-	-	-	-	-	-	-	-	-	-	-	-	322,824	
2016	15	-	-	49,579	6,295	4,571	60,445	21,585	40,596	61,123	53,627	95,133	272,064	-	-	-	-	-	-	-	-	-	-	-	-	-	332,509	
2017	16	-	-	51,066	6,484	4,708	62,258	22,232	41,814	62,957	55,236	97,987	280,226	-	-	-	-	-	-	-	-	-	-	-	-	-	342,484	
2018	17	-	-	52,598	6,679	4,849	64,126	22,899	43,068	64,845	56,993	100,927	288,633	-	-	-	-	-	-	-	-	-	-	-	-	-	352,759	
2019	18	-	-	54,176	6,879	4,995	66,050	23,586	44,360	66,791	58,600	103,954	297,292	-	-	-	-	-	-	-	-	-	-	-	-	-	363,341	
2020	19	-	-	55,801	7,085	5,145	68,031	24,294	45,691	68,794	60,358	107,073	306,210	-	-	-	-	-	-	-	-	-	-	-	-	-	374,242	
2021	20	-	-	57,475	7,298	5,299	70,072	25,023	47,062	70,858	62,169	110,285	315,397	-	-	-	-	-	-	-	-	-	-	-	-	-	385,649	
2022	21	-	-	59,200	7,517	5,458	72,174	25,773	48,473	72,984	64,034	113,594	324,859	-	-	-	-	-	-	-	-	-	-	-	-	-	397,033	
2023	22	-	-	60,976	7,742	5,622	74,339	26,547	49,928	75,174	65,955	117,002	334,604	-	-	-	-	-	-	-	-	-	-	-	-	-	408,944	
2024	23	-	-	62,805	7,975	5,790	76,570	27,343	51,426	77,429	67,934	120,512	344,643	-	-	-	-	-	-	-	-	-	-	-	-	-	421,212	
2025	24	-	-	64,689	8,214	5,964	78,867	28,183	52,968	79,752	69,872	124,127	354,862	-	-	-	-	-	-	-	-	-	-	-	-	-	433,849	
2026	25	-	-	66,630	8,460	6,143	81,233	29,008	54,557	82,144	72,071	127,851	365,631	-	-	-	-	-	-	-	-	-	-	-	-	-	446,864	
				535,138	67,948	49,337	652,423	232,981	438,179	659,744	578,839	1,026,837	2,936,580	-	-	-	-	-	-	-	-	-	-	-	-	-	3,589,003	

Discount Rate		OPTION				EXISTING RAIL TONNAGE										DIVERTED RAIL TONNAGE			EXTERNAL BENEFITS					TOTAL COSTS (BENEFITS)	TOTAL NET BENEFITS (COSTS)				
7%		CAPITAL COSTS		INFRASTRUCTURE MAINTENANCE		RAIL OPERATING COSTS					NON-PRICE CUSTOMER BENEFITS					BENEFITS			Road Damage	Air Pollut.	Green. Gases	Cong'n	Pass. Accidents	TOTAL	TOTAL COSTS (BENEFITS)	TOTAL NET BENEFITS (COSTS)			
Year	Year No.	Initial Capital	Residual Value	Track Maint	Big & Com's Maint	Train Control	TOTAL	Crewing	Fuel	R'stock Maint.	R'stock Capital	Terminal+ PUD	TOTAL	Reliability	Transit Time	Service Availability	TOTAL	Producer Surplus	Customer Benefit	TOTAL	Road Damage	Air Pollut.	Green. Gases	Cong'n	Pass. Accidents	TOTAL	TOTAL COSTS (BENEFITS)	TOTAL NET BENEFITS (COSTS)	
2001	-	12,900	-	31,823	4,041	2,934	38,797	13,855	26,057	39,233	34,421	61,062	174,628	-	-	-	1,872	-	788	83	850	640	2	149	0	290	1,080	226,325	(12,900)
2002	1	12,900	-	33,136	4,171	3,029	40,336	14,162	26,852	40,373	35,306	62,894	179,587	1,110	402	360	1,872	-	788	83	850	640	2	149	0	290	1,080	229,020	(9,199)
2003	2	12,900	-	34,499	4,306	3,126	41,931	14,475	27,672	41,546	36,212	64,781	184,686	2,286	828	742	3,855	-	1,582	170	1,752	1,318	4	306	1	597	2,225	231,685	(5,263)
2004	3	12,900	-	35,914	4,445	3,227	43,587	14,795	28,516	42,754	37,141	66,724	189,930	3,532	1,279	1,146	5,957	-	2,444	263	2,706	2,036	6	473	1	922	3,438	234,316	(1,101)
2005	4	-	-	37,383	4,589	3,332	45,303	15,120	29,387	43,997	38,092	68,726	195,323	4,850	1,756	1,574	8,181	-	3,356	361	3,717	2,796	8	650	1	1,266	4,722	224,007	16,205
2006	5	-	-	38,504	4,727	3,432	46,662	15,574	30,269	45,317	39,235	70,788	201,182	4,996	1,809	1,621	8,426	-	3,456	372	3,828	2,880	8	670	1	1,304	4,863	230,727	16,691
2007	6	-	-	39,659	4,868	3,534	48,062	16,041	31,177	46,676	40,412	72,912	207,218	5,146	1,863	1,670	8,679	-	3,560	383	3,943	2,966	8	690	1	1,343	5,009	237,649	17,191
2008	7	-	-	40,849	5,014	3,641	49,504	16,522	32,112	48,076	41,625	75,099	213,434	5,300	1,919	1,720	8,939	-	3,667	394	4,061	3,055	8	711	2	1,384	5,160	244,778	17,707
2009	8	-	-	42,075	5,165	3,750	50,989	17,018	33,075	49,519	42,873	77,352	219,837	5,459	1,977	1,772	9,207	-	3,777	406	4,183	3,147	9	732	2	1,425	5,314	252,122	18,238
2010	9	-	-	43,337	5,320	3,862	52,519	17,529	34,067	51,004	44,160	79,673	226,432	5,623	2,036	1,825	9,484	-	3,890	418	4,309	3,242	9	754	2	1,468	5,474	259,685	18,785
2011	10	-	-	44,637	5,479	3,978	54,095	18,054	35,089	52,534	45,484	82,063	233,225	5,791	2,097	1,879	9,768	-	4,007	431	4,438	3,339	9	776	2	1,512	5,638	267,476	19,349
2012	11	-	-	45,976	5,644	4,097	55,717	18,596	36,142	54,110	46,849	84,525	240,222	5,965	2,160	1,936	10,066	-	4,127	444	4,571	3,439	10	800	2	1,557	5,807	275,000	19,930
2013	12	-	-	47,355	5,813	4,220	57,389	19,154	37,226	55,734	48,254	87,060	247,429	6,144	2,225	1,994	10,363	-	4,251	457	4,708	3,542	10	824	2	1,604	5,981	283,765	20,527
2014	13	-	-	48,776	5,988	4,347	59,111	19,729	38,343	57,406	49,702	89,672	254,852	6,328	2,292	2,054	10,674	-	4,379	471	4,849	3,648	10	848	2	1,652	6,161	292,278	21,143
2015	14	-	-	50,239	6,167	4,477	60,884	20,320	39,494	59,128	51,193	92,362	262,497	6,518	2,361	2,115	10,994	-	4,510	485	4,995	3,758	10	874	2	1,702	6,346	301,047	21,778
2016	15	-	-	51,746	6,352	4,612	62,710	20,930	40,678	60,902	52,729	95,133	270,372	6,714	2,431	2,179	11,324	-	4,645	499	5,145	3,871	11	900	2	1,753	6,536	310,078	22,431
2017	16	-	-	53,299	6,543	4,750	64,592	21,558	41,899	62,729	54,311	97,987	278,483	6,915	2,504	2,244	11,664	-	4,785	514	5,299	3,987	11	927	2	1,805	6,732	319,380	23,104
2018	17	-	-	54,898	6,739	4,893	66,529	22,205	43,156	64,611	55,940	100,927	286,838	7,123	2,579	2,311	12,013	-	4,928	530	5,458	4,106	11	955	2	1,859	6,934	328,962	23,797
2019	18	-	-	56,545	6,941	5,039	68,525	22,871	44,450	66,549	57,618	103,955	295,443	7,336	2,657	2													



# Melbourne - Perth Market Segment (Combined Benefits)

Scenario : S2

Discount Rate		7%		Year		BASE CASE				EXISTING RAIL TONNAGE										DIVERTED RAIL TONNAGE					EXTERNAL BENEFITS					TOTAL COSTS (BENEFITS)
		CAPITAL COSTS		INFRASTRUCTURE MAINTENANCE				RAIL OPERATING COSTS					NON-PRICE CUSTOMER BENEFITS					BENEFITS												
		Capital works	Residual Value	Track Maint	Big & Coms Maint	Train Control	TOTAL	Crewing	Fuel	R'stock Maint.	R'stock Capital	Terminal+ PUD	TOTAL	Reliability	Transit Time	Service Availability	TOTAL	Producer Surplus	Customer Benefit	TOTAL	Road Damage	Air Pollut.	Green. Gases	Cong'n	Pass. Accidents	TOTAL	TOTAL			
2001	-	-	-	31,823	4,041	2,934	38,797	13,855	26,057	39,233	34,421	61,062	174,628	-	-	-	-	-	-	-	-	-	-	-	-	-	-	213,425		
2002	1	-	-	32,777	4,162	3,022	39,961	14,270	26,839	40,409	35,454	62,894	179,866	-	-	-	-	-	-	-	-	-	-	-	-	-	219,827			
2003	2	-	-	33,761	4,287	3,113	41,160	14,698	27,644	41,622	36,518	64,781	185,262	-	-	-	-	-	-	-	-	-	-	-	-	-	226,422			
2004	3	-	-	34,773	4,415	3,206	42,395	15,139	28,473	42,870	37,613	66,724	190,820	-	-	-	-	-	-	-	-	-	-	-	-	-	233,215			
2005	4	-	-	35,817	4,548	3,302	43,667	15,593	29,327	44,157	38,742	68,726	196,545	-	-	-	-	-	-	-	-	-	-	-	-	-	240,211			
2006	5	-	-	36,891	4,684	3,401	44,977	16,061	30,207	45,481	39,904	70,788	202,441	-	-	-	-	-	-	-	-	-	-	-	-	-	247,418			
2007	6	-	-	37,998	4,825	3,503	46,326	16,543	31,113	46,846	41,101	72,911	208,514	-	-	-	-	-	-	-	-	-	-	-	-	-	254,840			
2008	7	-	-	39,138	4,969	3,608	47,716	17,039	32,047	48,251	42,334	75,099	214,770	-	-	-	-	-	-	-	-	-	-	-	-	-	262,486			
2009	8	-	-	40,312	5,119	3,717	49,147	17,550	33,008	49,699	43,604	77,352	221,213	-	-	-	-	-	-	-	-	-	-	-	-	-	270,360			
2010	9	-	-	41,521	5,272	3,828	50,622	18,077	33,998	51,190	44,912	79,672	227,849	-	-	-	-	-	-	-	-	-	-	-	-	-	278,471			
2011	10	-	-	42,767	5,430	3,943	52,140	18,619	35,018	52,725	46,260	82,063	234,685	-	-	-	-	-	-	-	-	-	-	-	-	-	286,825			
2012	11	-	-	44,050	5,593	4,061	53,704	19,178	36,069	54,307	47,647	84,524	241,725	-	-	-	-	-	-	-	-	-	-	-	-	-	295,030			
2013	12	-	-	45,372	5,761	4,183	55,316	19,753	37,151	55,936	49,077	87,080	248,977	-	-	-	-	-	-	-	-	-	-	-	-	-	304,293			
2014	13	-	-	46,733	5,934	4,309	56,975	20,346	38,265	57,614	50,549	89,672	256,446	-	-	-	-	-	-	-	-	-	-	-	-	-	313,421			
2015	14	-	-	48,135	6,112	4,438	58,684	20,956	39,413	59,343	52,065	92,362	264,140	-	-	-	-	-	-	-	-	-	-	-	-	-	322,824			
2016	15	-	-	49,579	6,295	4,571	60,445	21,585	40,596	61,123	53,627	95,133	272,064	-	-	-	-	-	-	-	-	-	-	-	-	-	332,509			
2017	16	-	-	51,066	6,484	4,708	62,258	22,232	41,814	62,957	55,236	97,987	280,226	-	-	-	-	-	-	-	-	-	-	-	-	-	342,484			
2018	17	-	-	52,598	6,679	4,849	64,126	22,899	43,068	64,845	56,993	100,927	288,633	-	-	-	-	-	-	-	-	-	-	-	-	-	352,759			
2019	18	-	-	54,176	6,879	4,995	66,050	23,586	44,360	66,791	58,500	103,954	297,292	-	-	-	-	-	-	-	-	-	-	-	-	-	363,341			
2020	19	-	-	55,801	7,085	5,145	68,031	24,294	45,691	68,794	60,358	107,073	306,210	-	-	-	-	-	-	-	-	-	-	-	-	-	374,242			
2021	20	-	-	57,475	7,298	5,299	70,072	25,023	47,062	70,858	62,169	110,285	315,397	-	-	-	-	-	-	-	-	-	-	-	-	-	385,469			
2022	21	-	-	59,200	7,517	5,458	72,174	25,773	48,473	72,984	64,034	113,594	324,859	-	-	-	-	-	-	-	-	-	-	-	-	-	397,033			
2023	22	-	-	60,976	7,742	5,622	74,339	26,547	49,928	75,174	65,955	117,002	334,604	-	-	-	-	-	-	-	-	-	-	-	-	-	408,944			
2024	23	-	-	62,805	7,975	5,790	76,570	27,343	51,426	77,429	67,934	120,512	344,643	-	-	-	-	-	-	-	-	-	-	-	-	-	421,212			
2025	24	-	-	64,689	8,214	5,964	78,867	28,163	52,968	79,752	69,872	124,127	354,862	-	-	-	-	-	-	-	-	-	-	-	-	-	433,849			
2026	25	-	-	66,630	8,460	6,143	81,233	29,008	54,557	82,144	72,071	127,851	365,631	-	-	-	-	-	-	-	-	-	-	-	-	-	446,964			
				535,138	67,948	49,337	652,423	232,981	438,179	659,744	578,839	1,026,837	2,936,580	-	-	-	-	-	-	-	-	-	-	-	-	-	3,589,003			

Discount Rate		7%		Year		OPTION				EXISTING RAIL TONNAGE										DIVERTED RAIL TONNAGE					EXTERNAL BENEFITS					TOTAL COSTS (BENEFITS)	TOTAL NET BENEFITS (COSTS)
		CAPITAL COSTS		INFRASTRUCTURE MAINTENANCE				RAIL OPERATING COSTS					NON-PRICE CUSTOMER BENEFITS					BENEFITS													
		Initial Capital	Residual Value	Track Maint	Big & Coms Maint	Train Control	TOTAL	Crewing	Fuel	R'stock Maint.	R'stock Capital	Terminal+ PUD	TOTAL	Reliability	Transit Time	Service Availability	TOTAL	Producer Surplus	Customer Benefit	TOTAL	Road Damage	Air Pollut.	Green. Gases	Cong'n	Pass. Accidents	TOTAL	TOTAL	TOTAL			
2001	-	69,556	-	31,823	4,041	2,934	38,797	13,855	26,057	39,233	34,421	61,062	174,628	-	-	-	-	-	-	-	-	-	-	-	-	-	-	282,980	(69,556)		
2002	1	69,556	-	33,095	4,175	3,038	40,278	14,089	26,838	40,271	35,183	62,894	179,275	1,089	481	378	1,948	-	696	150	845	574	2	134	0	260	969	285,345	(65,518)		
2003	2	69,556	-	34,415	4,314	3,083	41,812	14,328	27,642	41,336	35,958	64,781	184,043	2,243	990	779	4,013	-	1,433	308	1,741	1,182	4	275	1	535	1,997	287,660	(61,238)		
2004	3	69,556	-	35,784	4,457	3,161	43,402	14,564	28,470	42,429	36,749	66,724	188,937	3,466	1,529	1,204	6,199	-	2,214	476	2,691	1,827	5	584	1	826	3,085	289,920	(56,705)		
2005	4	69,556	-	37,205	4,606	3,240	45,050	14,804	29,323	43,551	37,555	68,726	193,958	4,760	2,100	1,654	8,514	-	3,041	654	3,695	2,509	7	584	1	1,135	4,236	292,119	(51,908)		
2006	5	69,556	-	38,678	4,759	3,321	46,758	15,044	30,201	44,701	38,376	70,788	199,111	6,128	2,704	2,129	10,961	-	3,915	842	4,757	3,230	10	752	2	1,461	5,454	294,252	(46,834)		
2007	6	69,556	-	40,207	4,917	3,404	48,528	15,286	31,105	45,882	39,213	72,912	204,399	7,574	3,342	2,632	13,548	-	4,839	1,041	5,880	3,992	12	929	2	1,806	6,741	296,312	(41,472)		
2008	7	69,556	-	41,792	5,080	3,489	50,361	15,529	32,038	47,093	40,065	75,099	209,824	9,102	4,017	3,162	16,281	-	5,815	1,251	7,066	4,797	14	1,116	3	2,170	8,101	298,293	(35,808)		
2009	8	69,556	-	43,436	5,249	3,576	52,281	15,773	32,998	48,335	40,933	77,352	215,391	10,714	4,728	3,722	19,165	-	6,845	1,473	8,318	5,647	17	1,314	3	2,555	9,536	300,190	(29,830)		
2010	9	-	-	45,142	5,423	3,665	54,230	16,017	33,987	49,609	41,817	79,673	221,103	12,415	5,479	4,313	22,207	-	7,932	1,706	9,638	6,544	19	1,523	3	2,960	11,050	322,439	46,032		
2011	10	-	-	46,964	5,686	3,775	55,857	16,498	35,006	51,098	43,072	82,063	227,736	12,788	6,343	4,443	22,873	-	8,170	1,757	9,927	6,740	20	1,568	4	3,049	11,381	329,412	47,413		
2012	11	-	-	47,891	5,754	3,889	57,533	16,993	36,057	52,631	44,364	84,525	234,568	13,171	7,148	4,528	23,559	-	8,415	1,810	10,225	6,942	21	1,615	4	3,141	11,723	346,594	48,836		
2013	12	-	-	49,327	5,926	4,005	59,259	17,502	37,138	54,210	45,695	87,080	241,605	13,566	7,987	4,713	24,266	-	8,667	1,865	10,532	7,151	21	1,664	4	3,235	12,074	353,992	50,301		
2014	13	-	-	50,807	6,104	4,125	61,037	18,027	38,252	55,836	47,066	89,672	248,854	13,973	8,166	4,855	24,994	-	8,927	1,920	10,848	7,365	22	1,714	4	3,332	12,437	361,612	51,810		
2015	14	-	-	52,332	6,287	4,249	62,868	18,568	39,400	57,511	48,478	92,362	256,319	14,392	8,351	5,000	25,744	-	9,195	1,978	11,173	7,586	23	1,765	4	3,432	12,810	369,460	53,364		
2016	15	-	-	53,901	6,476	4,377	64,754	19,125	40,582	59,226	49,932	95,133	264,000	14,824	8,542	5,150	26,516	-	9,471	2,037	11,508	7,814	23	1,818	4	3,535	13,194	377,544	54,965		
2017	16	-	-	55,519	6,670	4,508	66,696	19,699	41,789	61,013	51,430	97,987	271,929	15,269	8,738	5,305	27,312	-	9,755	2,099	11,854	8,048	24	1,873	4	3,641	13,590	385,870	56,614		
2018	17	-	-	57,184	6,870	4,643	68,697	20,290	43,053	62,844	52,973	100,927	280,087	15,727	8,940	5,464	28,131	-	10,048	2,161	12,209	8,289	25	1,929	4	3,750	13,997	394,446	58,312		
2019	18	-	-	58,900	7,076	4,782	70,558	20,899	44,345	64,729	54,562	103,955	288,489	16,199	9,148	5,628															









## 2.3 Inland Route

Table 3 summarises the pre-feasibility economic evaluation results for the Inland route.

**Table 3: Inland Economic Evaluation Summary Results (Combined Benefits)**

<i>Present Value (\$ M)</i>		<b>Mel-Bne (Inland)</b>
Capital costs		(1,321)
Residual values		108
Infrastructure maintenance costs		(240)
Rail operating cost savings		488
Non-price customer benefits		122
Diverted rail benefits		664
Externalities		762
Capacity		194
<b>Results</b>	NPV	584
	BCR	1.4
	IRR	11%



### **3. SENSITIVITY ANALYSIS**

The sensitivity analysis tests the robustness of each of the corridor investments. Upper and lower bound sensitivity tests have been applied. The lower bound test increases capital costs by 30% and reduces diversion by 30%. The upper bound test is the reduction in capital cost by 30%. The results of the sensitivity analysis is presented across the North – South and East – West market segments.



### 3.1 North South Market Segments

Table 4 summarises the Capital Costs, Benefits and NPV results for the sensitivity tests in the North South market segments.

**Table 4 : North South Economic Evaluation Sensitivity Tests**

<i>Present Value (\$ M)</i>		Mel-Syd			Syd-Bne			Mel-Bne		
		Lower	Project	Upper	Lower	Project	Upper	Lower	Project	Upper
ATC	Capital Costs	(35)	(29)	(23)	(2360)	(1,967)	(1,573)	(2,390)	(1,992)	(1,593)
	Benefits	103	125	125	786	909	869	882	1,036	996
	NPV	68	96	102	(1,574)	(1,058)	(705)	(1,507)	(955)	(597)
S1	Capital Costs	(272)	(227)	(181)	(58)	(48)	(38)	(311)	(259)	(207)
	Benefits	372	473	470	290	369	368	604	789	785
	NPV	100	247	289	232	321	330	293	530	578
S0	Capital Costs	(353)	(294)	(236)	(80)	(66)	(53)	(433)	(361)	(289)
	Benefits	425	541	436	375	476	478	769	1,010	1,004
	NPV	72	247	301	296	410	422	337	649	716
S2	Capital Costs	(884)	(703)	(563)	(645)	(538)	(430)	(1,500)	(1,250)	(1,000)
	Benefits	658	823	808	546	674	664	1,062	1,336	1,311
	NPV	(186)	119	246	(99)	137	233	(438)	86	311

### 3.2 East West Market Segments

Table 5 summarises the Capital Costs, Benefits and NPV results for the sensitivity tests in the East West market segments.

**Table 5 : East West Economic Evaluation Sensitivity Tests**

<i>Present Value (\$ M)</i>		Mel-Adl			Mel-Per			Syd-Per		
		Lower	Project	Upper	Lower	Project	Upper	Lower	Project	Upper
ATC	Capital Costs	(184)	(153)	(123)	(302)	(252)	9201	(270)	(225)	(180)
	Benefits	103	129	126	202	298	292	303	340	335
	NPV	(81)	(24)	4	40	46	91	33	115	156
S1	Capital Costs	(123)	(102)	(82)	(30)	(25)	(20)	(9)	(7)	(6)
	Benefits	100	120	118	139	166	166	111	130	130
	NPV	(23)	17	36	109	141	145	103	123	124
S0	Capital Costs	(144)	(120)	(96)	(56)	(47)	(37)	(85)	(71)	(57)
	Benefits	125	149	147	179	211	210	272	310	308
	NPV	(19)	28	51	123	164	173	187	239	253
S2	Capital Costs	(753)	(627)	(502)	(582)	(485)	(388)	(40)	(34)	(27)
	Benefits	328	364	351	434	483	473	188	215	215
	NPV	(425)	(264)	(151)	(148)	(2)	85	148	182	188