APPENDIX TABLE III ROAD NETWORK CONNECTION RELATIONSHIP AND PARAMETERS

TABLE IV
PARAMETERS OF POWER SYSTEM IN THE CASE

TAKAMETERS												
1-2	<i>d_{ij}</i> (km)	mra_{ij} 0	mrb_{ij}	mrc _{ij}	E _{ij} 0.62	$\frac{\varphi(i,j)}{0.17}$	Node Number	Node Types	Load/MW	Active Output/MW	Ld_n^a	φ_n
1-2			0	3	0.62	0.17						
2-8	3.2 5.8	4	0	0	0.58	0.9	1	pq	0	0	0	1
2-8		0	0	2	0.38		2	pq	0	0	0	1
3-4	3.3			2	0.81	0.15	3	pq	322	0	322	1
3-4	4.2 5.3	0	2	0		0.3	4	pq	500	0	500	1
		1	0	0	0.18	0.1	5	pq	0	0	0	1
4-5	2.9	0	1	0	0.59	0.3	6	pq	0	0	0	1
5-7	3.2	0	2	0	0.33	0.33	7	pq	233.8	0	233.8	1
5-13	2.3	0	2	0	0.36	0.35	8	pq	522	0	522	1
6-7	2.8	0	0	0	0	0	9	pq	0	0	0	1
6-9	3.2	4	0	0	0.92	0.89	10	pq	0	0	0	1
7-12	1.8	3	0	0	0.95	0.82	11	pq	0	0	0	1
8-11	4.9	4	0	0	0.96	0.9	12	pq	107.5	0	107.5	1
8-26	7	0	0	4	0.41	0.15	13	pq	0	0	0	1
9-10	3.2	0	0	1	0.3	0.03	14	pq	0	0	0	1
9-15	4.2	0	0	3	0.83	0.22	15	pq	220	0	220	0.65
10-11	4.2	0	2	0	0.21	0.22	16	pq	329	0	329	0.5
10-21	3	0	2	0	0.5	0.26	17	pq	0	0	0	0.45
11-22	5	4	0	0	0.96	0.9	18	pq	358	0	358	0.35
11-23	5.3	1	0	0	0.19	0.21	19	pq	0	0	0	0.83
11-26	7.2	0	0	4	0.93	0.31	20	pq	628	0	628	1
12-14	1.3	2	0	0	0.54	0.48	21	pq	274	0	274	0.71
12-15	1.4	1	0	0	0.95	0.68	22	pq	0	0	0	0.43
13-14	3.2	0	0	0	0	0	23	pq	247.5	0	247.5	0.43
13-17	6.8	0	2	0	0.72	0.35	24	pq	108.6	0	108.6	0.63
14-16	1.1	2	0	0	0.92	0.67	25	pq	239	0	239	0.72
15-21	2.6	3	0	0	0.88	0.81	26	pq	281	0	281	1
16-18	4	3	0	0	0.82	0.76	27	pq	224	0	224	1
16-19	5.3	2	0	0	0.67	0.55	28	pq	306	0	306	0.52
17-18	2.3	0	0	0	0	0	29	pq	283.5	0	283.5	0.52
18-20	3.9	2	0	0	0.92	0.66	30	pq	0	350	350	1
19-20	2	1	0	0	0.52	0.23	31	$v\theta$	9.2	0	9.2	1
19-21	4.9	4	0	0	0.92	0.89	32	pv	0	650	650	1
20-24	5.1	0	2	0	0.43	0.23	33	pv	0	632	632	1
21-22	5	3	0	0	098	0.83	34	pv	0	508	508	1
22-23	4	2	0	0	0.87	0.65	35	pv	0	650	650	1
22-24	6.2	3	0	0	0.62	0.67	36	pv	0	560	560	1
23-25	5.9	1	0	0	0.35	0.19	37	pv	0	540	540	1
24-25	4.5	4	0	0	0.95	0.9	38	pv	0	830	830	1
			-	<u></u>	<u>-</u>		39	pv	0	1000	1000	1