APPENDIX

TABLE I PLANNING SCHEMES OF DS WITH DIFFERENT CASES IN THE 33-NODE SYSTEM

Dlonning	C	Capacity of					Type	of lines				
Planning year	Case	substation (MW)	Line-1	Line-2	Line-3	Line-4	Line-5	Line-6	Line-7	Line-8	Line-9	Line-10
	Case-1	10.09	8	7	5	5	5	2	2	2	2	2
1	Case-2	8.65	4	4	3	3	2	1	1	1	1	1
	Case-3	8.53	4	4	3	3	2	1	1	1	1	1
	Case-1	1.01	9	_	6	6	6	3	_	_	_	_
2	Case-2	0.84	5	_	_	_	3	_	_	_	_	_
	Case-3	0.85	5	_	_	_	3	_	_	_	_	_
	Case-1	1.11	_	9	7	_	_	_	3	_	_	_
3	Case-2	0.95	6	5	_	_	_	2	_	_	_	_
	Case-3	0.94	6	5	_	_	_	2	_	_	_	_
	Case-1	1.22	_	_	_	7	7	-	_	3	_	_
4	Case-2	1.04	_	6	4	_	_	_	_	_	_	_
	Case-3	1.03	_	6	4	_	_	_	_	_	_	_
	Case-1	1.34	_	_	_	_	_	4	_	_	3	_
5	Case-2	1.15	7	_	_	4	4		2	_	-	_
<u> </u>	Case-3	1.14	7	_	_	4	4	_	2	_	_	_
Planning year	Case	line-11	line-12	line-13	line-14	line-15	line-16	line-17	line-18	line-19	line-20	line-21
	Case-1	1	1	1	1	1	1	1	1	1	1	1
1	Case-2	1	1	1	1	1	1	1	1	1	1	1
•	Case-3	1	1	1	1	1	1	1	1	1	1	1
	Case-1	2	_				-	-				_
2	Case-2	_					_	_				_
2	Case-3	_					_	_				
	Case-1											
3	Case-1	-	_	-	-	-	_	_	-	-	-	_
3	Case-3	-	-	_	-	-	_	_	-	-	-	_
	Case-3	-	2	-	-	-	-	-	2	-	-	_
4	Case-1	-	2	-	-	-	-	-	2	-	-	-
4		-	-	-	-	-	-	-	-	-	-	-
	Case-3	-	-	-	-	-	-	-	-	-	-	-
_	Case-1	-	-	-	-	-	-	-	-	-	-	-
5	Case-2	-	-	-	-	-	-	-	-	-	-	-
DI :	Case-3	-	-	-		-	-			- 20	-	-
Planning year	Case	line-22	line-23	line-24	line-25	line-26	line-27	line-28	line-29	line-30	line-31	line-32
	Case-1	1	1	1	2	2	1	1	1	1	1	1
1	Case-2	1	1	1	1	1	1	1	1	1	1	1
	Case-3	1	1	1	1	1	1	1	1	1	1	1
	Case-1	-	-	-	-	-	2	-	-	-	-	-
2	Case-2	-	-	-	-	-	-	-	-	-	-	-
	Case-3	-	-	-	-	-	-	-	-	-	-	-
	Case-1	2	-	-	-	-	-	2	-	-	-	-
3	Case-2	-	-	-	-	-	-	-	-	-	-	-
	Case-3	-	-	-	-	-	-	-	-	-	-	-
	Case-1	-	-	-	-	-	-	-	-	-	-	-
4	Case-2	-	-	-	-	-	-	-	-	-	-	-
	Case-3 Case-1	-	-	-	-	-	-	-	-	-	-	-

Case-2	2	-	-	2	-	-	-	-	-	-	-
Case-3	2	_	_	2	_	_	_	_	_	_	_

*The symbol "-" means that the line is not invested.

TARIFIID	ANNING SCHEME	OF ES WITH DIE	EEDENIT CACECIN	THE 33-NODE SYSTEM

Planning	year	•	1	•	•	2	•	•	3			4	•	•	5	•
Case	:	Case-														
Capacity	EC	\	3.34	4.54	\	0.33	0.45	\	0.37	0.50	\	0.40	0.55	\	0.45	0.60
(MW)	CST	\	25.24	25.24	\	2.52	2.52	\	2.78	2.78	\	3.05	3.05	\	3.36	3.36

TARI E III Di	ANNING SCHEMES OF	DS WITH DIFFERENT	CACECINITHE OC	NODE SVETEM

	Diamaia	C	Capacity of					Type	of lines				
	Planning year	Case	substation (MW)	Line-1	Line-2	Line-3	Line-4	Line-5	Line-6	Line-7	Line-8	Line-9	Line-10
		Case-1	17.23	9	1	1	1	1	1	1	1	1	1
Case-1 1.72	1	Case-2	14.5	4	1	1	1	1	1	1	1	1	1
		Case-3	14.32	4	1	1	1	1	1	1	1	1	1
Case-1		Case-1	1.72	-	-	-	-	-	-	-	-	-	-
Case	2	Case-2	1.45	-	-	-	-	-	-	-	-	-	-
Second S		Case-3	1.24	-	-	-	-	-	-	-	-	-	-
Case-1 C		Case-1	1.9	-	-	-	-	-	-	-	-	-	-
	3	Case-2	1.6	5	-	-	-	-	-	-	-	-	-
		Case-3	1.57	5	-	-	-	-	-	-	-	-	-
		Case-1	2.08	-	-	-	-	-	-	-	-	-	-
Case-1 2.29 -	4	Case-2	1.77	6	-	-	-	-	-	-	-	-	-
5 Case-2 1.63 -		Case-3	1.55	6	-	-	-	-	-	-	-	-	-
Planning year Case line-11 line-12 line-13 line-14 line-15 line-16 line-17 line-18 line-19 line-20 line-21 line-14 line-15 line-16 line-17 line-18 line-19 line-20 line-21 line-18 line-19 line-20 line-21 line-20 line-21 line-20 l		Case-1	2.29	-	-	-	-	-	-	-	-	-	-
Planning year Case line-11 line-12 line-13 line-14 line-15 line-16 line-17 line-18 line-19 line-20 line-21 line-22 line-23 line-24 line-25 line-26 line-27 line-28 line-29 line-30 line-31 line-32 line-31 line-31 line-32 line-31 l	5	Case-2	1.63	-	-	-	-	-	-	-	-	-	-
Case-1 9 1 9 1 8 2 1 <td></td> <td>Case-3</td> <td>1.89</td> <td>-</td>		Case-3	1.89	-	-	-	-	-	-	-	-	-	-
1 Case-2 3 1 3 1 3 1 <td>Planning year</td> <td>Case</td> <td>line-11</td> <td>line-12</td> <td>line-13</td> <td>line-14</td> <td>line-15</td> <td>line-16</td> <td>line-17</td> <td>line-18</td> <td>line-19</td> <td>line-20</td> <td>line-21</td>	Planning year	Case	line-11	line-12	line-13	line-14	line-15	line-16	line-17	line-18	line-19	line-20	line-21
Case-3 3 1 3 1 3 1 <td></td> <td>Case-1</td> <td>9</td> <td>1</td> <td>9</td> <td>1</td> <td>8</td> <td>2</td> <td>1</td> <td>1</td> <td>1</td> <td>1</td> <td>1</td>		Case-1	9	1	9	1	8	2	1	1	1	1	1
Case-1	1	Case-2	3	1	3	1	3	1	1	1	1	1	1
2 Case-2 4 - 4 - <td></td> <td>Case-3</td> <td>3</td> <td>1</td> <td>3</td> <td>1</td> <td>3</td> <td>1</td> <td>1</td> <td>1</td> <td>1</td> <td>1</td> <td>1</td>		Case-3	3	1	3	1	3	1	1	1	1	1	1
Case-3 4 - 4 - <td></td> <td>Case-1</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> <td>9</td> <td>3</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td>		Case-1	-	-	-	-	9	3	-	-	-	-	-
Case-1	2	Case-2	4	-	4	-	-	-	-	-	-	-	-
3 Case-2 - - - 4 - <td></td> <td>Case-3</td> <td>4</td> <td>-</td> <td>4</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td>		Case-3	4	-	4	-	-	-	-	-	-	-	-
Case-3 4		Case-1	-	-	-	-	-	-	-	-	-	-	-
Case-1 5 - 5 - 5	3	Case-2	-	-	-	-	4	-	-	-	-	-	-
4 Case-2 5 - 5 - 5 - 5		Case-3	-	-	-	-	4	-	-	-	-	-	-
Case-3 5 - 5 - 5 - <td></td> <td>Case-1</td> <td>-</td>		Case-1	-	-	-	-	-	-	-	-	-	-	-
Case-1 - - - - 4 - - - - - 5 Case-2 6 - <	4	Case-2	5	-	5	-	5	-	-	-	-	-	-
5 Case-2 Case-3 6 - <		Case-3	5	-	5	-	5	-	-	-	-	-	-
Case-3 6 - <td></td> <td>Case-1</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> <td>4</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td>		Case-1	-	-	-	-	-	4	-	-	-	-	-
Planning year Case line-22 line-23 line-24 line-25 line-26 line-27 line-28 line-29 line-30 line-31 line-32 Case-1 1 1 6 1 1 1 5 1 1 1 Case-2 1 1 2 1 1 1 1 2 1	5	Case-2	6	-	-	-	-	-	-	-	-	-	-
Case-1 1 1 6 1 1 1 1 5 1 1 1 1 1 1 1 1 1 1 1		Case-3	6	-	-	-	-	-	-	-	-	-	-
1 Case-2 1 1 2 1 1 1 1 2 1 1 1 1 1 1 1 1 1 1 1	Planning year	Case	line-22	line-23	line-24	line-25	line-26	line-27	line-28	line-29	line-30	line-31	line-32
Case-3 1 1 2 1 1 1 1 2 1 1 1 1 1 1 1 1 1 1 1		Case-1	1	1	6	1	1	1	1	5	1	1	1
Case-1 6 2 Case-2	1	Case-2	1	1	2	1	1	1	1	2	1	1	1
2 Case-2		Case-3	1	1	2	1	1	1	1	2	1	1	1
		Case-1	-	-	-	-	-	-	-	6	-	-	-
Case-3	2	Case-2	-	-	-	-	-	-	-	-	-	-	-
		Case-3	-	-	-	-	-	-	-	-	-	-	-

	Case-1	_	_	7	_	_	_	_	_	_	_	_
3	Case-2	_	_	3	_	_	_	_	_	_	_	_
	Case-3	_	_	3	_	_	_	_	_	_	_	_
	Case-1	_	_	_	_	_	_	_	7	_	_	_
4	Case-2	_	_	_	_	_	_	_	3	_	_	_
	Case-3	_	_	_	_	_	_	_	3	_	_	_
	Case-1	_	_	8	_	_	_	_	_	_	_	_
5	Case-2	_	_	_	_	_	_	_	_	_	_	_
	Case-3	-	_	_	_	_	_	_	_	_	_	_
Planning year	Case	line-33	line-34	line-35	line-36	line-37	line-38	line-39	line-40	line-41	line-42	line-43
	Case-1	1	1	1	1	3	3	3	1	3	2	1
1	Case-2	1	1	1	1	1	1	1	1	1	1	1
	Case-3	1	1	1	1	1	1	1	1	1	1	1
	Case-1	-	_	_	_	_	_	_	_	_	3	_
2	Case-2	-	_	_	_	_	_	_	_	_	_	_
	Case-3	_	_	_	_	_	_	_	_	_	_	_
	Case-1	-	_	_	_	_	_	_	_	_	_	_
3	Case-2	-	_	_	_	_	_	_	_	_	_	_
	Case-3	_	_	_	_	_	_	_	_	_	_	_
	Case-1	_	_	_	_	4	4	4	_	4	_	_
4	Case-2	-	_	-	-	_	_	-	_	_	-	_
	Case-3	-	-	_	-	-	-	-	-	-	-	-
	Case-1	-	_	-	-	5	5	-	_	_	4	_
5	Case-2	-	_	-	-	2	2	2	_	_	-	_
	Case-3	-	-	_	-	2	2	2	-	-	-	-
Planning year	Case	line-44	line-45	line-46	line-47	line-48	line-49	line-50	line-51	line-52	line-53	line-54
Planning year	Case Case-1	line-44	line-45	line-46	line-47	line-48	line-49	line-50	line-51	line-52	line-53	line-54
Planning year												
	Case-1	1	1	2	1	1	1	1	1	1	5	5
	Case-1 Case-2	1 1	1 1	2	1 1	1 1	1 1	1 1	1 1	1 1	5	5
	Case-1 Case-2 Case-3	1 1	1 1	2	1 1 1	1 1	1 1	1 1	1 1	1 1	5 3 3	5 3 3
1	Case-1 Case-2 Case-3 Case-1	1 1	1 1	2	1 1 1	1 1	1 1	1 1	1 1	1 1	5 3 3	5 3 3
1	Case-1 Case-2 Case-3 Case-1 Case-2	1 1	1 1	2	1 1 1	1 1	1 1	1 1	1 1	1 1	5 3 3	5 3 3
1	Case-1 Case-2 Case-3 Case-1 Case-2 Case-3	1 1	1 1	2	1 1 1	1 1 1 -	1 1 1 -	1 1	1 1	1 1	5 3 3	5 3 3
2	Case-1 Case-2 Case-3 Case-1 Case-2 Case-3 Case-1	1 1	1 1	2	1 1 1	1 1 1 -	1 1 1 -	1 1	1 1	1 1	5 3 3 6 -	5 3 3 6 -
2	Case-1 Case-2 Case-3 Case-1 Case-2 Case-3 Case-1 Case-2	1 1	1 1	2	1 1 1	1 1 1 -	1 1 1 -	1 1	1 1	1 1	5 3 3 6 - - 4	5 3 3 6 - - 4
2	Case-1 Case-2 Case-3 Case-1 Case-2 Case-3 Case-1 Case-2 Case-3	1 1	1 1	2	1 1 1	1 1 1 -	1 1 1 -	1 1	1 1	1 1	5 3 3 6 - - 4 4	5 3 3 6 - - - 4 4
2 3	Case-1 Case-2 Case-3 Case-1 Case-2 Case-3 Case-1 Case-2 Case-3 Case-1 Case-2	1 1	1 1	2	1 1 1	1 1 1 -	1 1 1 -	1 1	1 1	1 1	5 3 3 6 - - 4 4	5 3 3 6 - - - 4 4
2 3	Case-1 Case-2 Case-3 Case-1 Case-2 Case-3 Case-1 Case-2 Case-3 Case-1 Case-2	1 1	1 1	2	1 1 1	1 1 1 -	1 1 1 -	1 1	1 1	1 1	5 3 3 6 - - 4 4	5 3 3 6 - - - 4 4
2 3	Case-1 Case-2 Case-3 Case-1 Case-2 Case-3 Case-1 Case-2 Case-3 Case-1 Case-2 Case-3 Case-1 Case-2	1 1	1 1	2	1 1 1	1 1 1 -	1 1 1 -	1 1	1 1	1 1	5 3 3 6 - - 4 4	5 3 3 6 - - - 4 4
1 2 3	Case-1 Case-2 Case-3	1 1	1 1	2	1 1 1	1 1 1 -	1 1 1 -	1 1	1 1	1 1	5 3 3 6 - - 4 4 4 7 -	5 3 3 6 - - 4 4 7 -
1 2 3	Case-1 Case-2 Case-3 Case-1 Case-2 Case-3 Case-1 Case-2 Case-3 Case-1 Case-2 Case-3 Case-1 Case-2	1 1	1 1	2	1 1 1	1 1 1 -	1 1 1 -	1 1	1 1	1 1	5 3 3 6 - - 4 4 7 - - 5	5 3 3 6 - - 4 4 7 - - 5
1 2 3 4	Case-1 Case-2 Case-3	1 1 1 	1 1 1 - - - - - - -	2 1 1 - - - - - - - - - - 1 - - - - - -	1 1 1 2 - - - - -	1 1 1 - - - 2 - - - -	1 1 1 - - - 2 - - - -	1 1 1 - - - - - - -	1 1 1 - - - - - - -	1 1 1 - - - - - - -	5 3 3 6 - - 4 4 7 - - 5 5	5 3 3 6 - - 4 4 7 - - 5 5
1 2 3 4	Case-1 Case-2 Case-3	1 1 1	1 1 1 1ine-56 4	2 1 1 1 line-57	1 1 2 - - - - - - - - - - - - - - - - -	1 1 1 2 1line-59 4	1 1 1 2	1 1 1	1 1 1	1 1 1	5 3 3 6 4 4 7 - 5 5 5 line-64 3 2	5 3 3 6 - - 4 4 7 - - 5 5
2 3 4 5 Planning year	Case-1 Case-2 Case-3 Case-3 Case-1 Case-2 Case-3	1 1 1 1 line-55	1 1 1 1ine-56 4 3	2 1 1	1 1 1 2 1 line-58	1 1 1 2	1 1 1 2	1 1 1 1 line-61	1 1 1	1 1 1 1 line-63	5 3 3 6 4 4 7 - 5 5 line-64	5 3 3 6 4 4 7 - 5 5 line-65
1 2 3 4 5 Planning year 1	Case-1 Case-2 Case-3 Case-1 Case-1 Case-1 Case-1 Case-1	1 1 1 1	1 1 1 1ine-56 4	2 1 1 1 line-57	1 1 1 2 1ine-58	1 1 1 2 1line-59 4	1 1 1 2 1ine-60	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1 2 Line-62	1 1 1 1line-63	5 3 3 6 4 4 7 - 5 5 line-64 3 2 4	5 3 3 6 4 4 7 - 5 5 line-65
2 3 4 5 Planning year	Case-1 Case-2 Case-3	1 1 1 1	1 1 1 1ine-56 4 3	2 1 1	1 1 1 2 1ine-58	1 1 1 2	1 1 1 2 1ine-60	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1	1 1 1 1line-63	5 3 3 6 4 4 7 - 5 5 Iine-64 3 2 4 3	5 3 3 6 4 4 7 - 5 5 line-65
1 2 3 4 5 Planning year 1	Case-1 Case-2 Case-3	1 1 1 1	1 1 1	2 1 1	1 1 1 2 1ine-58	1 1 1 2	1 1 1 2 1ine-60	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1 1	1 1 1 1 1ine-63	5 3 3 6 4 4 7 - 5 5 line-64 3 2 4	5 3 3 6 4 4 7 - 5 5 line-65
1 2 3 4 5 Planning year 1	Case-1 Case-2 Case-3	1 1 1 1	1 1 1 1ine-56 4 3	2 1 1	1 1 1 2 1ine-58	1 1 1 2	1 1 1 2 1ine-60	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1	1 1 1 1ine-63	5 3 3 6 4 4 7 - 5 5 Iine-64 3 2 4 3	5 3 3 6 4 4 7 - 5 5 line-65

	Case-3	-	_	_	_	_	_	_	_	_	_	_
	Case-1	_	_	_	_	6	_	_	_	_	5	_
4	Case-2	_	4	4	_	4	_	_	_	_	_	_
	Case-3	_	4	4	_	4	_	_	_	_	_	_
	Case-1	-	7	7	_	7	_	_	6	_	6	-
5	Case-2	-	5	5	_	_	_	_	4	_	-	-
	Case-3	-	5	5	_	_	_	_	4	-	-	-
Planning year	Case	line-66	line-67	line-68	line-69	line-70	line-71	line-72	line-73	line-74	line-75	line-76
	Case-1	3	1	1	1	1	3	1	2	1	2	1
1	Case-2	2	1	1	1	1	2	1	2	1	2	1
	Case-3	2	1	1	1	1	2	1	2	1	2	1
	Case-1	4	-	-	-	-	-	-	3	-	3	-
2	Case-2	3	-	-	-	-	-	-	-	-	-	-
	Case-3	3	_	-	-	-	-	-	-	-	-	-
	Case-1	-	-	-	-	-	-	-	-	-	-	-
3	Case-2	-	-	-	-	-	-	-	-	-	-	-
	Case-3	-	-	-	-	-	-	-	-	-	-	-
	Case-1	5	-	-	-	-	4	-	-	-	-	-
4	Case-2	-	-	-	-	-	3	-	-	-	-	-
	Case-3	-	-	-	-	-	3	-	-	-	-	-
	Case-1	-	-	-	-	-	5	-	4	-	4	-
5	Case-2	-	-	-	-	-	-	-	3	-	-	-
	Case-3	-	-	-	-	-	-	-	3	-	-	-
Planning year	Case	line-77	line-78	line-79	line-80	line-81	line-82	line-83	line-84	line-85	line-86	line-87
	Case-1	2	1	1	1	1	1	1	1	1	1	1
1	Case-2	1	1	1	1	1	1	1	1	1	1	1
	Case-3	1	1	1	1	1	1	1	1	1	1	1
	Case-1	-	-	-	-	-	-	-	-	-	-	-
2	Case-2	-	-	-	-	-	-	-	-	-	-	-
	Case-3	-	-	-	-	-	-	-	-	-	-	-
	Case-1	-	-	-	-	-	-	-	-	-	-	-
3	Case-2	-	-	-	-	-	-	-	-	-	-	-
	Case-3	-	-	-	-	-	-	-	-	-	-	-
	Case-1	-	-	-	-	-	-	-	-	-	-	-
4	Case-2	2	-	-	-	-	-	-	-	-	-	-
	Case-3	2	-	-	-	-	-	-	-	-	-	-
	Case-1	3	-	-	-	-	-	-	-	-	-	-
5	Case-2	-	-	-	-	-	-	-	-	-	-	-
	Case-3	-	-	-	-	-	-	-	-	-	-	-
Planning year	Case	line-88	line-89	line-90	line-91	line-92	line-93	line-94	line-95	line-96	line-97	line-98
	Case-1	1	1	1	1	1	1	1	1	1	1	1
1	Case-2	1	1	1	1	1	1	1	1	1	1	1
	Case-3	1	1	1	1	1	1	1	1	1	1	1
	Case-1	-	-	-	-	-	-	-	-	-	-	-
2	Case-2	-	-	-	-	-	-	-	-	-	-	-
	Case-3	-	-	-	-	-	-	-	-	-	-	-
	Case-1	-	-	-	-	-	-	-	-	-	-	-
3	Case-2	-	-	-	-	-	-	-	-	-	-	-
	Case-3	-	-	-	-	-	-	-	-	-	-	-
4	Case-1	2	-	-	-	-	-	-	-	-	-	-

Case-3	-										
	-	-	_	_	_						
5 Case 2						_	-	-	-	-	-
3 Case-2	-	-	-	-	-	-	-	-	-	-	-
Case-3	-	-	-	-	-	-	-	-	-	-	-

			TABLE	E IV PLA	NNING SO	CHEMES (of ES wi	TH DIFFE	RENT CA	SES IN TH	њ 99-no	DE SYST	EM			
Planning	year		1		2 3 4		5									
Case		Case-	Case-	Case-	Case-	Case-	Case-	Case-	Case-	Case-	Case-	Case-	Case-	Case-	Case-	Case-
Capacity	EC	\	6.14	8.15	\	0.61	2.83	\	0.67	0.90	\	0.75	0.99	\	0.81	1.08
(MW)	CST	\	40.25	39.52	\	4.03	3.22	\	4.44	4.35	\	4.89	4.78	\	5.14	5.26

	TABLE V F	LANNING S	CHEMES OF	DS WITH D	IFFERENT C	ONFIDENCE	LEVELS IN T	гне 33-nod	E SYSTEM		
C	Capacity of					Type	of lines				
Confidence level	substation (MW)	Line-1	Line-2	Line-3	Line-4	Line-5	Line-6	Line-7	Line-8	Line-9	Line-10
90%	10.09	8	7	5	5	5	2	2	2	2	2
80%	9.91	8	7	5	5	5	2	2	2	2	2
70%	9.83	8	7	5	5	5	2	2	2	2	2
60%	9.78	8	7	5	5	5	2	2	2	2	1
50%	9.74	7	7	5	5	5	2	2	2	2	1
Confidence level	line-11	line-12	line-13	line-14	line-15	line-16	line-17	line-18	line-19	line-20	line-21
90%	1	1	1	1	1	1	1	1	1	1	1
80%	1	1	1	1	1	1	1	1	1	1	1
70%	1	1	1	1	1	1	1	1	1	1	1
60%	1	1	1	1	1	1	1	1	1	1	1
50%	1	1	1	1	1	1	1	1	1	1	1
Confidence level	line-22	line-23	line-24	line-25	line-26	line-27	line-28	line-29	line-30	line-31	line-32
90%	1	1	1	2	2	1	1	1	1	1	1
80%	1	1	1	2	2	1	1	1	1	1	1
70%	1	1	1	2	2	1	1	1	1	1	1
60%	1	1	1	2	2	1	1	1	1	1	1
50%	1	1	1	2	1	1	1	1	1	1	1

C£-11	Capacity of					Type	of lines				
Confidence level	substation (MW)	Line-1	Line-2	Line-3	Line-4	Line-5	Line-6	Line-7	Line-8	Line-9	Line-10
90%	17.23	9	1	1	1	1	1	1	1	1	1
80%	16.93	9	1	1	1	1	1	1	1	1	1
70%	16.79	9	1	1	1	1	1	1	1	1	1
60%	16.70	9	1	1	1	1	1	1	1	1	1
50%	16.64	9	1	1	1	1	1	1	1	1	1
Confidence level	line-11	line-12	line-13	line-14	line-15	line-16	line-17	line-18	line-19	line-20	line-21
90%	9	1	9	1	8	2	1	1	1	1	1
80%	9	1	9	1	8	2	1	1	1	1	1
70%	9	1	8	1	8	2	1	1	1	1	1
60%	9	1	8	1	8	2	1	1	1	1	1
50%	9	1	8	1	8	2	1	1	1	1	1
Confidence level	line-22	line-23	line-24	line-25	line-26	line-27	line-28	line-29	line-30	line-31	line-32
90%	1	1	6	1	1	1	1	5	1	1	1

80%	1	1	6	1	1	1	1	5	1	1	1
70%	1	1	6	1	1	1	1	5	1	1	1
60%	1	1	6	1	1	1	1	5	1	1	1
50%	1	1	5	1	1	1	1	5	1	1	1
Confidence level	line-33	line-34	line-35	line-36	line-37	line-38	line-39	line-40	line-41	line-42	line-4
90%	1	1	1	1	3	3	3	1	3	2	1
80%	1	1	1	1	3	3	3	1	3	2	1
70%	1	1	1	1	3	3	3	1	3	2	1
60%	1	1	1	1	3	3	3	1	3	2	1
50%	1	1	1	1	3	3	3	1	3	2	1
Confidence level	line-44	line-45	line-46	line-47	line-48	line-49	line-50	line-51	line-52	line-53	line-5
90%	1	1	2	1	1	1	1	1	1	5	5
80%	1	1	1	1	1	1	1	1	1	5	5
70%	1	1	1	1	1	1	1	1	1	5	5
60%	1	1	1	1	1	1	1	1	1	5	5
50%	1	1	1	1	1	1	1	1	1	5	5
Confidence level	line-55	line-56	line-57	line-58	line-59	line-60	line-61	line-62	line-63	line-64	line-6
90%	1	4	4	1	4	1	1	4	1	3	1
80%	1	4	4	1	4	1	1	3	1	3	1
70%	1	4	4	1	4	1	1	3	1	3	1
60%	1	4	4	1	4	1	1	3	1	3	1
50%	1	4	4	1	4	1	1	3	1	3	1
Confidence level	line-66	line-67	line-68	line-69	line-70	line-71	line-72	line-73	line-74	line-75	line-7
90%	3	1	1	1	1	3	1	2	1	2	1
80%	3	1	1	1	1	3	1	2	1	2	1
70%	3	1	1	1	1	3	1	2	1	2	1
60%	3	1	1	1	1	3	1	2	1	2	1
50%	3	1	1	1	1	3	1	2	1	2	1
Confidence level	line-77	line-78	line-79	line-80	line-81	line-82	line-83	line-84	line-85	line-86	line-8
90%	2	1	1	1	1	1	1	1	1	1	1
80%	2	1	1	1	1	1	1	1	1	1	1
70%	2	1	1	1	1	1	1	1	1	1	1
60%	2	1	1	1	1	1	1	1	1	1	1
50%	2	1	1	1	1	1	1	1	1	1	1
Confidence level	line-88	line-89	line-90	line-91	line-92	line-93	line-94	line-95	line-96	line-97	line-9
90%	1	1	1	1	1	1	1	1	1	1	1
80%	1	1	1	1	1	1	1	1	1	1	1
70%	1	1	1	1	1	1	1	1	1	1	1
60%	1	1	1	1	1	1	1	1	1	1	1
50%											

Method	Capacity of	Type of lines									
	substation (MW)	Line-1	Line-2	Line-3	Line-4	Line-5	Line-6	Line-7	Line-8	Line-9	Line-10
P-DRO	10.09	8	7	5	5	5	2	2	2	2	2
D-DRO	9.06	7	6	5	4	4	2	2	2	2	1
SO	8.85	7	6	5	4	4	2	2	2	2	1
Method	line-11	line-12	line-13	line-14	line-15	line-16	line-17	line-18	line-19	line-20	line-21
P-DRO	1	1	1	1	1	1	1	1	1	1	1

D-DRO	1	1	1	1	1	1	1	1	1	1	1
SO	1	1	1	1	1	1	1	1	1	1	1
Method	line-22	line-23	line-24	line-25	line-26	line-27	line-28	line-29	line-30	line-31	line-32
P-DRO	1	1	1	2	2	1	1	1	1	1	1
D-DRO	1	1	1	2	1	1	1	1	1	1	1
SO	1	1	1	1	1	1	1	1	1	1	1

		TABLE '	VIII PLANNI	NG SCHEMES	S OF DIFFERE	ЕНТ МЕТНОГ	S IN THE 99-	-NODE S YSTI	EM		
	Capacity of	Type of lines									
Method	substation (MW)	Line-1	Line-2	Line-3	Line-4	Line-5	Line-6	Line-7	Line-8	Line-9	Line-10
P-DRO	17.23	9	1	1	1	1	1	1	1	1	1
D-DRO	15.48	9	1	1	1	1	1	1	1	1	1
SO	15.12	9	1	1	1	1	1	1	1	1	1
Method	line-11	line-12	line-13	line-14	line-15	line-16	line-17	line-18	line-19	line-20	line-21
P-DRO	7	1	7	1	7	2	1	1	1	1	1
D-DRO	7	1	7	1	7	2	1	1	1	1	1
SO	7	1	7	1	7	2	1	1	1	1	1
Method	line-22	line-23	line-24	line-25	line-26	line-27	line-28	line-29	line-30	line-31	line-32
P-DRO	1	1	5	1	1	1	1	5	1	1	1
D-DRO	1	1	5	1	1	1	1	5	1	1	1
SO	1	1	5	1	1	1	1	4	1	1	1
Method	line-33	line-34	line-35	line-36	line-37	line-38	line-39	line-40	line-41	line-42	line-43
P-DRO	1	1	1	1	3	3	2	1	2	2	1
D-DRO	1	1	1	1	3	3	2	1	2	2	1
SO	1	1	1	1	2	2	2	1	2	2	1
Method	line-44	line-45	line-46	line-47	line-48	line-49	line-50	line-51	line-52	line-53	line-54
P-DRO	1	1	1	1	1	1	1	1	1	4	4
D-DRO	1	1	1	1	1	1	1	1	1	4	4
SO	1	1	1	1	1	1	1	1	1	4	4
Method	line-55	line-56	line-57	line-58	line-59	line-60	line-61	line-62	line-63	line-64	line-65
P-DRO	1	4	4	1	3	1	1	3	1	3	1
D-DRO	1	4	4	1	3	1	1	3	1	3	1
SO	1	3	3	1	3	1	1	3	1	3	1
Method	line-66	line-67	line-68	line-69	line-70	line-71	line-72	line-73	line-74	line-75	line-76
P-DRO	3	1	1	1	1	3	1	2	1	2	1
D-DRO	3	1	1	1	1	3	1	2	1	2	1
SO	3	1	1	1	1	2	1	2	1	2	1
Method	line-77	line-78	line-79	line-80	line-81	line-82	line-83	line-84	line-85	line-86	line-87
P-DRO	2	1	1	1	1	1	1	1	1	1	1
D-DRO	2	1	1	1	1	1	1	1	1	1	1
SO	1	1	1	1	1	1	1	1	1	1	1
Method	line-88	line-89	line-90	line-91	line-92	line-93	line-94	line-95	line-96	line-97	line-98
P-DRO	1	1	1	1	1	1	1	1	1	1	1
D-DRO	1	1	1	1	1	1	1	1	1	1	1
SO	1	1	1	1	1	1	1	1	1	1	1