

∞

[2002] 10

M

O

1

1.0.1

1.0.2

1

2

1.0.3

1.0.4

1

x 1±

2

3

x

x

4

=

x

1.0.5

1.0.6

1.0.7

1.0.8

1.0.9

1

35

-10

1.2

1.0.10

2000m

2000 3000m 1.1

3001 3500m 1.2

3501 4000m 1.3

4001m

1.0.11

5%

1.0.12

1.0.13

1000 /

1360 /

1680 /

1.0.14

4

1.0.15

1.0.1

2

2.1

22

2.2

2.2-1

	20m	80m	80m
	20%	40%	60%
	5 30%	8 50%	8 50%

2.2-2

			()
--	--	--	-----

				km	2818	3203	4122			
					2186	2484	3196			
					1552	1764	2269			
					1086	1234	1589			
					759	863	1112			
					89	101	131			
						km	877	997	1283	
							438	500	643	
							220	250	323	
							167	188	242	
							111	124	162	
		GPS			C		3727	4274	5500	
							D	3198	3632	4671
							E	2821	3203	4123
		2				km ²	76780	102374	163795	
33383	44510						71216			
15174	20232						32374			
6676	8901						14244			
1975	2630						4210			
1109	1478						2364			
1 200							1.8		2.0	
3				km	1016	1354	1864			
					785	1047	1440			
					607	809	1113			
					468	625	860			
					362	481	665			
4					2698	3372	5733			

2 2-3

1	()	0.6	2 2-2
2		0.5	
3		0.5	
4		1.2	
5	GPS C D E	0.6	
6		0.6	
7		0.48	
8		0.7	
9		0.4	

10	20cm	1. 3	
11		1. 1	
12	60%	1. 2 1. 5	
13	1: 200	1. 6	
14		1. 5	

2 3

2 3-1

	300m 3cm	700m 2cm	700m 2cm
	5m	15m	15m
		1. 5m	1. 5m

2 3-2

				()			
1			1: 200	km ²	204748	272301	382875
			1: 500		89020	118396	166468
			1: 1000		40464	53817	75680
			1: 2000		17803	23680	33294
			1: 5000		5260	7002	9838
			1: 10000		2955	3924	5530
2			1		1. 5		
3			1: 200	km	3245	4316	6474
			1: 500		2636	3506	5261
			1: 1000		2023	2698	4046
			1: 2000		1559	2075	3112
			1: 5000		1268	1686	2529

2 4

2 4-1

	1 3	4 5	5

	km 10	km 20	km 20
--	-------	-------	-------

2 4-2

			()		
1		km	1206	1446	1880
2			1416	1700	2337
3			1624	1948	2599

2 5

2 5-1

	2 0 m	1. 8 m	1. 8 m
	15m	11m	11m

2 5-2

		()		
	km	2698	4384	6744

2 6

2 6-1

			()				
1			1: 500	0. 25m ²	459	689	1102
			1: 1000		756	1099	1732
			1: 2000		1049	1509	2362
			1: 5000		1966	2739	4215
			1: 10000		2882	3969	6066
		2 0					
2			1: 2	100cm ²	24	34	56
			2 5		28	40	72
			1. 5				
			1: 2		14	20	36
			2 5		18	24	41
3					1000		
4					3	3	

5				1000
---	--	--	--	------

3

3.1

3.1-1

	%
	120
	100
	80

1

2

3.2

3.2-1

3.2-2

1			1 200	km ²	16065	22950	34425
			1 500		8033	11475	17213
			1 1000		5355	7650	11475
			1 2000		3570	5100	7650
			1 5000		1071	1530	2295
			1 10000		536	765	1148
			1 25000		268	383	574
			1 50000		134	191	287
			2			1.3	
3		1.5					

3.3

3.3-1

	10%	25%	25%	50mm 50% ()	100mm 50% ()	100mm 50% () ()

3.3-2

		D/ L m						
		D 10	46	71	117	207	301	382
		10 D 20	58	89	147	259	377	477

3.3-3

		30m	
		30m	30m
	=80 100mm L=150 200mm	40	50
	=80 100mm L=150 200mm	65	95
	=75mm L=800mm	310	460
	=75mm L=800mm	420	620
	=75mm L=800mm	360	560
	=75mm L=200mm	150	240

			20 D 30				210	495	619	701
			30 D 40				249	587	734	832
			40 D 50				297	700	875	991
3			D 10		34	49	82			
			10 D 20		43	62	102			
			20 D 30		51	74	122			
			30 D 40		61	88	145			
			40 D 50		72	105	173			
			50 D 60		80	116	193			
			60 D 80		89	129	214			
		1. 15								
		1. 2								
4			D 10		66	99				
			10 D 20		83	124				
			20 D 30		99	149				
			30 D 40		116	173				
			40 D 50		132	198				
			50 D 60		158	238				
			60 D 80		198	297				
			D 10		206					
			10 D 20		227					

		m ²	400		5490	6040
			500		6400	7040
			500		4. 2-1	1
		m ²			500 kPa	500 kPa
8			0. 10		2775	3330
			0. 25		3965	4758
			0. 50		5156	6188
			(kN)			
			500		6786	7488
			1000		7424	8237
			1000	500		1. 1
					3978	4563
					9945	11412
10					8775	9891
					7020	7605
			/		29250	58500
						35100
			D	D 20		1753
			m	D 20		2104
12						409
						205

3. 3-5

1				1. 5	
2				2. 0	
3				1. 3	
4				1. 3	
5				3. 0	
				D 10	2. 0
				10 D 20	2. 5
				D 20	3. 0

			1.5	
			1.2	
6			1.2	3 3-4 1 6
7			1.1 1.3	
8				
9	3	3		

4

4.1

4.1.1

4.1.2

4.1-1

	I		
	H 6.0m	6.0m H 12.0m	H 12.0m
	F 1000m ³ 0.5 m ³ /d K 20m ³ /d S 7.0m	1000m ³ F 2000m ³ 0.5m ³ /d K 50m ³ /d 7.0 m S 13.0m	F 2000m ³ K 0.5m ³ /d K 50m ³ /d S 13.0m

4.1-2

	10	50	100	500	1000	2000
--	----	----	-----	-----	------	------

- 1.
- 2 0.5 0.5
- 3 2000 I 3.5% 4.5% 5.0%
- 4 4.1.1

4.2

4.2.1

22%

4.2.2

4.2-1

1		(kn)	500		6400	
			1000		10000	
			3000		15000	
			5000		25000	
			10000		40000	
			15000		55000	
			20000		70000	
			20000 5000		1.25	
		(mm)	500		5000	
			500 800		7000	
			800 1000		9000	
			1000		12000	
		2		(kn)	1000	
3000					3500	
5000					4500	
10000					6000	
10000					9000	
10000 5000					1.25	
3		D(m)	D<30		1200	
			30 D 40		1500	
			40 D 50		1800	
			50 D 60		2200	
			D 60		2600	
4				60		
				100		

						1000
				D 30		500
			D m	D 30		1. 1
				10		

4. 2-2

4. 2-3

1					3272	2618	4593	3674
					2181	1745	3062	2450
					1606	1285	2253	1802
					1402	1122	1968	1574
				150m	200m			
					1459	1167	1980	1584
					1216	973	1650	1320
					1029	823	1386	1109
					538	430	802	642
				1km	1km			
					91	163	135	243
					74	134	112	201
					62	112	93	167
					53	95	78	140
					59		91	
					50		74	
					42		62	

5		.	23
---	--	---	----

5.3-1

		()			
1			760	1080	1400
2		km ²	608	864	1120
			730	1037	1344
			1094	1555	2016
			1216	1728	2240
			912	1296	1680

5.3-2

		()				
	1: 5000		768	960	1152	2 2-1
	1: 10000		640	800	960	
	1: 25000		512	640	768	
	1: 50000		384	480	576	
	1: 100000		320	400	480	
	1: 250000		256	320	384	
	1: 500000		192	240	288	

5.4

5.4-3

		D 50	1.2
		50 D 100	1.0
		100 D 150	1.2
		150 D 200	1.4
		200 D 250	1.7

6				420
7		L km	L 5	20
			5 L 10	40
			L 10	50
			1.3	
8		3 3-3		

5.6

5.6-1

				()
1		D (m)	D 300	840
			300 D 1000	6800
			1000 D 2000	10200
			D 2000	13600
			D 300	20400
			D 300	3400
			D 100	5100
			100 D 200	30
			D 200	40
			D 200	50
2		D (m)	D 200	20000
			200 D 1000	30000
			1000 D 1500	40000
			D 1500	50000

5.6-2

			()
1			840
			8000
			2000
			4500
2	D (m)	D 50	5000
		50 D 100	10000
		D 100	15000
3			

6.2

6.2-1

6.2-2

			()		
1			54600	78100	109300
			6900	9900	13900
			29100	41700	58400
			32800	46900	65600
			9100	13000	18300
			16400	23400	32900
			102100	145800	204100
2			47400	67700	94800
			91200	130200	182300
			47400	67700	94800
3			51000	72900	102100
			76500	109500	153200
			12400	17800	24800
4			21900	31300	43800
			32900	47000	65600
			3300	4900	6800
			2700	3900	5400

6.3

6.3-1

--	--	--

1			5600	8000	11300
2			5500	7800	11000
3			3300	4900	6800
4			5000	7300	10200
5			1800	2600	3600
6			5500	7800	11000

7

7.1

22%

7.2

7.2-1

1					18	
					25	
					45	
					220	
					130	
					260	
2				km	18	
					14400	
					21600	
			D 10		1800	
					10 D 20	2520
					20 D 30	3240
					30 D 50	4320

		0.8				
		2.4				
		1.2				
5		L (m)				
		L 10		6	4	3
		10 L 20		8	6	5
		20 L 50		9	8	6
		L 50		14	12	10
6		I	2.0	3	3	
7		D(m)	D 3000		2160	
			D 3000		3600	
8		D(m)	D 100		4320	
			D 100		5760	
		200m			0.5	

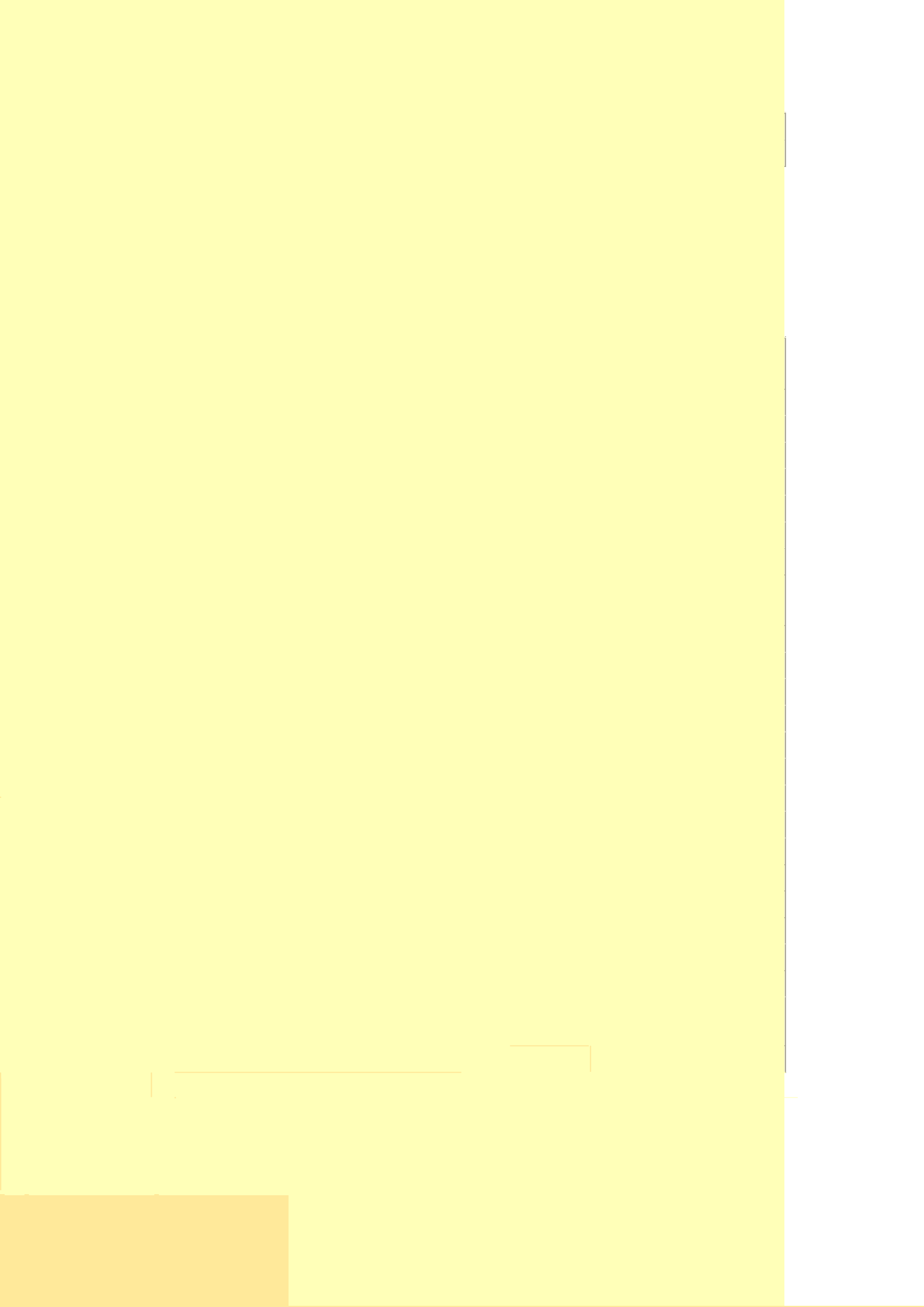
7.2-1

9	CT		.	20	
				14	
			20	20	
			Km	13500	6300

		2 4-1	3	3					
14					km				3600
									4500
									3600
									3600
			3	3					
15					.				1440
									2160
									3600
									4500
									6300
16					m				23
									27
									45
									41
									108
									108
				D 100					14
				100 D 300					27
				300 D 500					32
				D 500					45

7. 2-1

									()
--	--	--	--	--	--	--	--	--	-----



17

30

8 3-1

()

8.4

8.4-1

			()
1	(mm)	50 70	19
		50× 50× 50	35
		50× 50× 100	38
		70× 70× 70	43
		100× 100× 100	69
2	(mm)	50× 50× 50	38
3	(mm)	50 200	16
4			14
5			27
			59

8.4-2

			()		
1			14	3	
2			47		
3			14		
			14		
			18		
4			47		
5			117		
6			47		
			70		
7			185		
			233		
8			760		5
9			93		3
10			269	5	
			289		
11			26		
12			2455	25 3	
13			52		

8.4-3

			()
1			23
2			81
3			70

4	SiO ₂		103
5	R ₂ O ₃		52
6	Fe ₂ O ₃		14
7	Al ₂ O ₃		21
8	CaO		26
9	MgO		5
10	MnO		29
11	TiO ₂		29
12	K ₂ O		65
13	NaO		52
14	P ₂ O ₅		18
15	SO ₃		23

10.1.3

× 1±

10.1.4

× × ×

10.1.5

10.1.6

15 20%

10.2

10.2-1

	%	60	68	68	73
	%	10	4	4	3
	%	30	28	28	24

10.2-2

1		1.40
2		1.04
3		1.70
4		0.5 0.55
5		0.8
6		0.3 0.4
7		0.84 0.92
8		0.76 0.88

10.3

10.3 1

1	H (m)	H<30	-5	6		-2	
		30 H 50	-2			1	
		50 H 70	1			2	
		70 H 150	3			3	
		150 H 250	5				
2			-1	7		10 m	-2
						10 20 m	1

3	
4	
5	

1			20 40 m	2
2			40 60 m	4
3				-2
4	8			1
-2				2
0				3
1			10 m ³	0
2			10 100 m ³	2
3			100 500 m ³	3
-2	9		500 m ³	4
1				-1
2				2
3	10			3
-2				-1
1				1
2				3
	11			
3				

1
2

...
M

10.3.2

	3 10	10
	60%	60%
30%	60%	60%

10.3.3

	0.7

4			1.2
5		60 m	1.1
6		8	1.1 1.2
7		250 m	1.1
8		1000 m 8 km	1.2
9			1.05 1.5

10.4

10.4 1

1	200	9
2	500	20.9
3	1,000	38.8
4	3,000	103.8
5	5,000	163.9
6	8,000	249.6
7	10,000	304.8
8	20,000	566.8
9	40,000	1,054.0
10	60,000	1,515.2
11	80,000	1,960.1
12	100,000	2,393.4
13	200,000	4,450.8
14	400,000	8,276.7
15	600,000	11,897.5
16	800,000	15,391.4
17	1,000,000	18,793.8
18	2,000,000	34,948.9

2,000,000

1.7

11.

11.1

11.1.1

11.1.2

× ×

11.1.3

×

11.1-1

	300MW	300MW	330kV	330kV	330kV	330kV
%	15	17	20	23	17	20

11.2

11.2.1

11.7-1

11.2.2

11.7-2

11.3

11.3-1

MW							
1000			303.66	425.12	607.31	880.60	1093.16
1000			274.27	383.98	548.54	795.38	987.37
800			241.62	338.27	483.24	700.70	869.83
600			204.07	285.70	408.14	591.80	734.65
300			163.26	228.56	326.51	473.44	587.72
200			25.71	175.99	251.42	364.56	452.56
100			83.27	116.57	166.53	241.47	299.75

11.4

11.4-1

kV							
500			18.35	25.69	36.70	53.22	66.06
330			14.85	20.79	29.70	43.07	53.46
220			7.90	11.06	15.80	22.91	28.44
110			4.75	6.65	9.50	13.78	17.10
35			2.85	3.99	5.70	8.27	10.26
			0.8				

11.4-2

1			0.80	11.2-3 300MW
2			1.35	
3			1.15	
4			1.10	
5			0.67	
6			0.15	
7			0.41	
8			0.24	
9			0.42	

10		30m	1.05	
11		0.4km ²	100m	
12			1.10	
13			1.80	
14			0.30	
15			0.60	
16			0.05	

11.5

11.5-1

	kV							
1	500		km	1303	1902	2605	3777	4950
	330			1107	1615	2213	3209	4205
	220			651	950	1302	1888	2474
	110			495	723	990	1436	1881
2				4.0				

11.5-2

1	35kV	0.43	11.4-1 110kV	
2		1.00	11.4-1	
3	110kV 220kV	1.20		
4				
5				
6		1.15		
7				
8		1.10		
9		0.40		
10	50%	1.30		
11	1.5			
12	10km 10km			

11.6

11.6.1

11.6.2

11.7

11.7-1

	1 1/1	20m	3 3/3	80m	5 6/6	150m	7 10/10	150m	9 14/14	
	1 1/10	20%	2 5/16	40%	4 8/22	50%	6 12/28	50%	8 16/36	
	1 (1/1)	5%	2 (2/2)	10%	3 (3/3)	40%	4 4/4	5 (5/5)	>40%	
	1 5/2		3 15/5	25%	5 25/8				9 45/14	

		(1/1)		(2/2)		(3/3)		(4/4)		(5/5)

- 1.
- 2

11. 7-2

		9	18	35	52	73
		12	21	34	50	67

11. 7-3

	4	10	15	20	25

12

12 1

12 1. 1

12 1. 2

12 1. 3

× ×

12 2

12 2 1

11. 7-1

12 2 2

11. 7-3

12 3

12 3-1

			()				
1		Km	0. 22	0. 33	0. 51	0. 77	1. 11
2			0. 71	1. 08	1. 67	2. 52	3. 64

13

13.1

13.1.1

13.1.2

13.1.3

13.1.4 1 2000 0.4 0.6

0.2

13.1.5

× ×

13.2

13.2.1 11.7-1

13.2.2 11.7-3

13.3

13.3-1

		()				
1		2.46	3.16	4.64	6.30	8.50
2		3.00	3.86	5.66	8.67	11.67
3		5.46	7.02	10.30	14.97	20.17

1.

2.

13.3-2

1		0.8	
2		0.6	
3		1.1	
4		1.0	
5		0.6 0.9	
6		1.05	
7		1.15	
8		1.05	
9		0.8 1.05	
10		0.7	
11	160 200	1.3	
12	30	1.5	
13		1.0	

1.

2

3

2

4

0.5

5

1 2

14

14.1

14.1.1

14.1.2

14.1.3

1 2000

0.4

0.6

0.2

13.1.4

x

x

14.2

14.2.1

11.7-1

14.2.2

11.7-3

14.3

14.3-1

			()				
			I	II	III	IV	V
1			2.70	4.32	6.15	8.35	10.60
			2.20	3.60	5.05	6.50	9.40
			1.10	1.75	2.40	3.55	5.00
			3.00	4.65	6.75	9.40	11.80
			2.50	3.85	5.55	7.15	10.00

15.

15.1

15.2

15.2-1

	PH		PH

15.3

15.3-1

	80	40	60
	80	60	40

15.4

15.4-1

			()		
1		L 0.2	km	1000	
		0.2 L 1.0		1000	
		1.0 L 3.0		3560	
		3.0 L 5.0		9026	
		5.0 L 10.0		12760	
		10.0 L 50.0		20095	
		L 50.0		68095	
2		L 1.0	km	2500	
		1.0 L 50.0		2500	
		50.0 L 200.0		58360	
		200.0 L 1000.0		206860	
		L 1000.0		926860	
3		L 1.0	km	2000	
		1.0 L 10.0		2000	

4	10.0 L 50.0	km	15770
	L 50.0		60970
	L 1.0		3130
	1.0 L 5.0		3130
	5.0 L 20.0		13010
5	L 20.0		43010
	L 5.0		8500
	5.0 L 20.0		8500
	20.0 L 50.0		31000
	50.0 L 100.0		72100
	L 100.0		137100

1.

2.

3m

3m

3.

1.2

4.

0.8

15.4-2

				()
1				4250
				6500

J^a•G£

2P'@0



16.7

16.7 1

D_s m	5 D_s 10	10 D_s 20	D_s 20
T m	T 2	2 T 3	T 3
V_{TBX} m/s	$V_{TBX} < 2$ 5	2 5 V_{TBX} 3 5	V_{TBX} 3 5
	0 1	2	2

- 1.
- 2

16.7 2

			()		
1			12000	14000	18000
2			6000	6000	7000
3			7000	7000	8000

16.10

			16.10.1
			()
1			1954
2			16.4.1 1
3			2128
4		.	85000
5		Km	2157

1.

2. 5

3. 500

1

1.0.1

1.0.2

1.0.3

1

x 1±

2

3

x

x

x

1.0.4

1.0.5

1.0.6

1.0.7

1.0.10

x

1.0.11

1.0.12

1.1 1.4

1.0.13

5%

1.0.14

5

1.0.15

30%

40%

1.0.16

10

1.0.17

8

1.0.18

1.0.19

1.0.20

10

8

1.0.21

1.0.1

2

2.1

2.2

2.2-1

	%	%	%
		40	60
		35	65
		30	70

2.3

2.3.1

2.3-1	
1.	
2.	3
3.	
1.	
2.	500m
3.	
4.	4
1.	
2.	
3.	
4.	
5.	

2.3.2

2.3-2

1.	
2.	120m
3.	
4.	
5.	6m
1.	
2.	120m
3.	
4.	
5.	6 9m
1.	
2.	3000m
3.	
4.	
5.	9m

2.3.3

2.3-3

1.	
2.	

	3
	1. 2 3
	1. 2 3 4

2 3 4

2 3-4

3

	100m
	3

2.3.6		2 3-6	
	1		
	2		
	1	25mm	
	2	1 4 2	2 3
	1	25mm	
	2	5 3	4
	3		

1. 4

3

3 1

3 1. 1

3 1-1

3.2

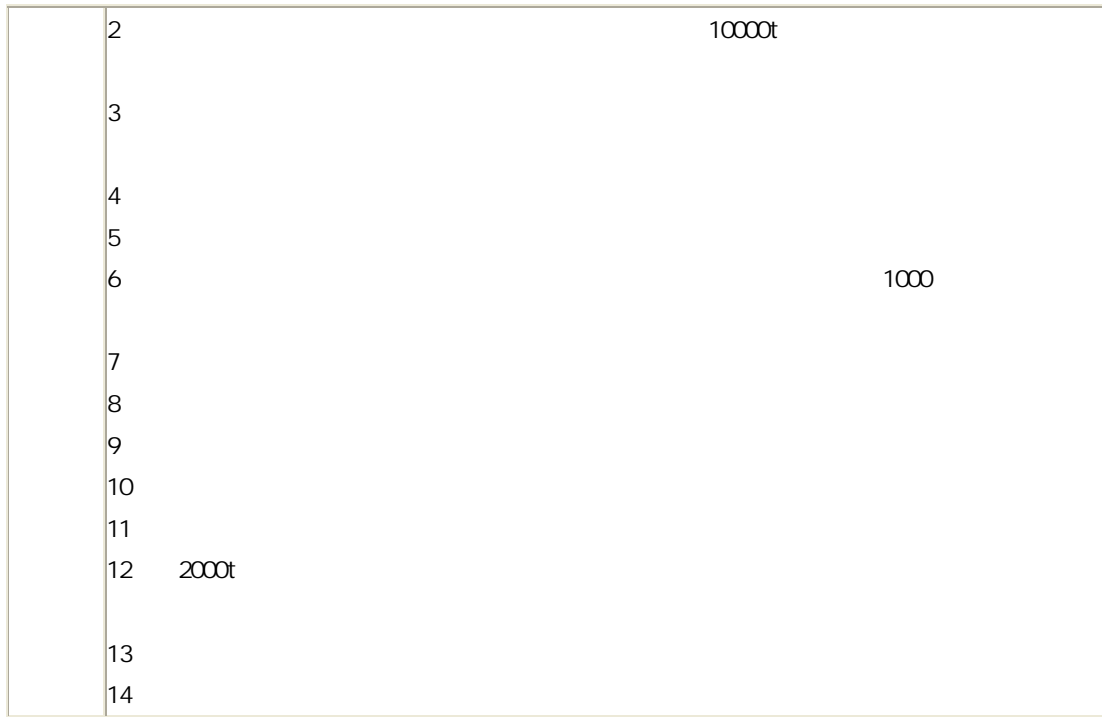
3.2-1

%	%	%
	35	65
	40	60

3.3

3.3-1

1	
2	3000t
3	
4	
5	
6	
7	
8	
9	
10	
1	
2	3000 10000t
3	
4	
5	
6	
7	
8	
9	
10	
11	
12	2000t
13	
14	
1	



1. 2 5%
 2. 2 5%

4

4.1

4.2

4. 2-1

	%	%	%	%
	35	65	50	50
	50	50	60	40
	40	60	50	50
	60	40	65	35

1.
 2

4.3

4. 3-1

1 5	50000m ³

		45		55
		25	20	55
		45	20	35
		25	20	55
		55	10	35
		60		40
		70	10	20

5.3

5.3.1

5.3-1

1	4				
2	110kV				
3		20			
1	2 4	50MW		50MW	
2	220kV 330kV				
3		20 20			
1					2 4
	50MW				
2	500kV				
3					
4		20			

1

1.1

2

5.3.2

5.3-2

1.		30%
2		30%
3		
4		
5.		
1		30%
60%		
2		
30% 60%		

	:		4
	70m	25000m ³ /s	4
	,		3

6

6.1

6.2

6.2-1

%		%		%	
		45		55	
		40		60	
		45		55	
		45		55	
		45		55	

6.3

6.3.1

6.3-1

	1			
	1			
	2			
	1			
	2			
	3			
	4			
		1.89	" 1"	0.61

6.3.2

6.3-2

	1	1000m	15m	30 50m	30 50m
	2		500m		
	1	1000m	15m	30 50m	30 100m
	2		500 1000m		
	3				

1	1	1000m	15m	250m
	2	400	1000m	800 1500m
	3	1000m		

1. 2 0 0 7

2. 1. 1

6.3.3

6.3-3

1	1	1000t		
	2	300t	100t	
	3	300t	5000t	
	4			
2	1	1000	10000t	
	2	1000t		
	3	300	1000t	100 500t
	4	300	1000t	5000 30000t
3	1	10000t		
	2	1000t		
	3			
	4	1000t	500t	
	5	1000t	30000t	
	6			

6.3.4

6.3-4

	3C	
	4D 4C	
	4E	

1.

2. 15 150

6.4

6.4.1

6.4-1

			()	()
			1.86	2.34

			1.95	2.44
			2.58	3.23
			3.26	4.07
			4.05	5.08
			0.52	0.64
			0.45	0.54

- 1.
2. 1.2
3. 1.1 ;
4. 0.6 1.0 ;
5. () 1040 ;
6. $\times 0.8$
7. 160 200km $\times 0.6$ $\times 0.8$ 1.3
8. 1.1
9. 30km 5km 0.6
10. 1.5 ;
11. 0.92
12. 0.85
13. 1.0 8 2.5% 1.1
14. 6.4.2

		6.4.2
%	0.58	0.72

1. 0.8
2. 1.0 8
3. 10km 6.4.1" "
- 4.

7.1

7.2

7.2-1

%		%	%	%
		10	30	60
		15	30	55
		20	30	50

1				
2				
3	24	50m		
4	20			
5				
6				
7				
8				
9			10000m ²	

1				
2				
3	50m			
4	20		20	
5				
6				
7				
8			10000m ²	

1.	20001m ²	5001	20000m ²	5000m ²
2				1.3 1.6
3				1.3
4				1.5
5				2.0
6				10000 20000 /ha

7.3.2

7.3-2

1	
2	
1	
2	
1	
2	
3	

7.3.3

7.3-3

1	
2	DN 1.0m
3	
4	
1	5000
2	(DN 1.0m 500m ³) 1 m ³ /s

	3	100t/		
	4	2MW		
	1		5000	500m ²
	2			
	3			
	4		2MW	
	5			

7.3.4

7.3-4

	1		1	1 2	
	2		P 1kW		
	3		P 50kW		
	4	()		P 1kW	
	5				
	6				
	7				
	1		2 3	3 5	
	2	(1kW P 20kW		
	3		50kW P 150kW		
	4	()		1kW P 10kW	200m ;
	5				
	6				
	7				
	1		4	6	
	2		P 20kW		;
	3		P 150kW		;
	4	()		P 10kW	200m ;
	5	()			
	6				
	7				
	8				
	9				

8

8.1

8.2

8.2-1

		%	%
		40	60
		100	
		80	20
		70	30
		60	40
		50	50
		30	70

8.3

8.3-1

1	5m	1/500				
2						
3						
4						
5	500m		20km	15000ha		
6	10000m					
1	5 50m	1/500 1/100				
2						
3						
4						
5	500 1000m		20 30km	15000		
6	35000ha	10000 30000m ²				
1	50m	1/100				
2						
3						
4						
5	1000m		30km	35000ha	30000m ²	
6						

1	200	9.0
2	500	20.9
3	1,000	38.8
4	3,000	103.8
5	5,000	163.9
6	8,000	249.6
7	10,000	304.8
8	20,000	566.8
9	40,000	1,054.0
10	60,000	1,515.2
11	80,000	1,960.1
12	100,000	2,393.4
13	200,000	4,450.8
14	400,000	8,276.7
15	600,000	11,897.5
16	800,000	15,391.4
17	1,000,000	18,793.8
18	2,000,000	34,948.9
	2,000,000	1.6

1	
	1.1
	1.2
	1.3
2	
	1.0
	1.1
	1.2
	1.3
3	
	1.2
	1.6
4	



	3		
	4		
	5		
	6		
	7		

1. 1.3
 2 () () 0.3