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24 June 1965

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THROUGH: Chief, Resources and Industries Division
Chief, Fuels and Power Branch

SUBJECT: EP 65-49, Additions to Capacity at Individual Electric Powerplants in the USSR: Actual 1964, Planned 1965 and EP 65-50, Capacities of Electric Powerplants and Estimated Regional Powerplant Capacities in the USSR, 1961-1965

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CIA/RR EP 65-49

Additions to Capacity at Individual Electric Powerplants in the USSR: Actual 1964, Planned 1965

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FOREWORD

The present compilation summarizes accomplishments of the electric power industry in 1964 and lists known or estimated additions to capacity at individual powerplants. It also presents similar data pertaining to plans for 1965.

The compilation has been prepared by the Fuels and Power Branch, Office of Research and Reports, CIA, as a working aid. It has not been coordinated with other intelligence components and is not intended to be an official CIA estimate.

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Additions to Capacity at Individual Electric Powerplants in the USSR: Actual 1964, Planned 1965

I. Additions to Capacity in 1964

A. Over-all Accomplishments

	Plan	Actual
According to the Soviet press:		
Electric power production	452 billion kwh	459 billion kwh
of which hydro		78 billion kwh
New capacity to be commissioned	10 million kw	Over 10 million kw

36 units of 100, 150, 200, and 300 mw each, with a total capacity of 6,200 mw, were installed in thermal powerplants, as follows:

3 x 300 mw	14 x 150 mw
13 x 200 mw	6 x 100 mw

	End 1963	End 1964 (Estimated)
Total installed capacity	93,050 mw	103,100 mw
of which thermal	72,220 mw	81,800 mw
of which hydro	20,830 mw	21,300 mw

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B. New Powerplants Known or Estimated to Have Begun Operation in 1964

Plant	Location Coordinates	Region
Verkhne Tuloma GES	68-49N 32-49E	I
Dneprodzerzhinsk TETs Fertilizer Plant	48-29N 34-40E	III
Kiyev GES	50-27N 30-32E	III
Moldavian GRES	46-37N 29-56E	III
Nevinnomysk GRES	41-37N 41-58E	IV
Kirovabad TETs	40-41N 46-22E**	V
Konakovo GRES	56-42N 36-50E**	VII
Voronezh Nuclear	51-18N 39-13E	VII
Beloyarsk Nuclear	56-49N 61-21E	VIII
Belovo GRES	54-26N 86-25E	IX
Kyzyl Orda TETs	44-50N 65-30E**	X
Pavlodar TETs 1	52-17N 76-57E**	X
Tsentralnaya GES	37-57N 69-00E*	X
Nebit Dag TETs	39-30N 54-22E	X
Bratsk TETs	56-00N 101-00E*	XI
Korshunovo TETs	56-34N 104-09E	XI

* Approximate coordinates.

** Town coordinates.

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C. Large Thermal Electric Generating Units Known or Estimated to Have Been Installed in 1964

300 mw Units		
Pridneprovskaya GRES	1 x 300	300
Cherepet GRES	1 x 300	300
Konakovo GRES	1 x 300	300
Total	3	900 mw
200 mw Units		
Pribaltyk GRES	1 x 200	200
Moldavian GRES	1 x 200	200
Zmiyev GRES	1 x 200	200
Stavobeshevo GRES	1 x 200	200
Zainsk GRES	2 x 200	400
Verkhne Tagil GRES	3 x 200	600
Belovo GRES	2 x 200	400
Tom Usinsk GRES	2 x 200	400
Total	13	2,600 mw
150 mw Units		
Bereza GRES	1 x 150	150
Vievis Litovsk GRES	1 x 150	150
Dobrotvor GRES	1 x 150	150
Nevinnomysk TETs	2 x 150	300

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150 mw Units (Continued)		
Krasnodar TETs	1 x 150	150
Ali Bayramly GRES	1 x 150	150
Tbilisi GRES	1 x 150	150
Yayva GRES	2 x 150	300
Navoi GRES	1 x 150	150
Tashkent GRES	1 x 150	150
Nazarovo GRES	1 x 150	150
Zaozernyy TETs	1 x 150	150
Total	14	2,100 mw
100 mw Units		
Moscow TETs 20	1 x 100	100
Moscow TETs 21	1 x 100	100
Kurgan TETs	1 x 100	100
Karaganda GRES 2	1 x 100	100
Norilsk TETs	1 x 100	100
Artem GRES	1 x 100	100
Beloyarsk Nuclear	1 x 100	100
Total	7	700 mw
Grand Total	37	6,300 mw

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Thermal

Plant	Units	Total MW
Region I		
Severodvinsk TETs	1 x 25	25
Leningrad GES 1	1 x 36	36
Leningrad TETs 17	1 x 50	50
Kondopoga TETs	1 x 12	12
Total		123
Region II		
Byelorussia		
Polotsk TETs	1 x 50	50
Bereza GRES	1 x 150	150
Total		200
Estonia		
Pribaltyk GRES	1 x 200	200
Lithuania		
Vievis Litovskaya GRES	1 x 150	150
Region III		
Moldavia		
Moldavian GRES	1 x 200	200

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Thermal (Continued)

Plant	Units	Total MW
Region III (Continued)		
Ukraine		
Pridneprovskaya GRES	1 x 300	300
Dneprodzerzhinsk Fert. TETs	1 x 50	50
Kharkov TETs 3	1 x 50	50
Zmiyev GRES	1 x 200	200
Dobrotvor GRES	1 x 150	150
Starobeshevo GRES	1 x 200	200
Total		950
Region IV		
Krasnodar TETs	1 x 150	150
Nevinnomysk TETs	2 x 150	300
Total		450
Region V		
Armenia		
Yerevan TETs	2 x 50	100
Total		100
Azerbaijan		
Ali Bayramly GRES	1 x 150	150

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Thermal (Continued)

Plant	Units	Total MW
Region V (Continued)		
Kirovabad TETs	1 x 25	25
Baku Refinery TETs	1 x 12	12
Total		187
Georgia		
Tbilisi GRES	1 x 150	150
Region VI		
Tol'yatti TETs	2 x 50	100
Novo Kuibyshev TETs 2	1 x 50	50
Volzhsk TETs	1 x 50	50
Zainsk GRES	2 x 200	400
Kazan TETs 2	1 x 50	50
Balakhovo TETs	2 x 50	100
Astrakhan Cellulose TETs	1 x 6	6
Total		756
Region VII		
Moscow TETs 11	1 x 50	50
Moscow TETs 20	1 x 100	100
Moscow TETs 21	1 x 100	100
Cherepet GRES	1 x 300	300

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Thermal (Continued)

Plant	Units	Total MW
Region VII (Continued)		
Konakovo GRES	1 x 300	300
Kirov TETs 4	1 x 50	50
Novo Voronezh Nuclear	3 x 70	210
Otradnensk Sugar Plant TETs	2 x 6	12
Yefrimov TETs		12
Total		1,134
Region VIII		
Chelyabinsk TETs 2	1 x 50	50
Yayva GRES	2 x 150	300
Sterlitamak TETs New	1 x 50	50
Novo Salavat TETs	1 x 50	50
Orsk Novo-Troitsk TETs	1 x 50	50
Orsk TETs 1	1 x 50	50
Kurgan TETs	1 x 100	100
Tyumen TETs	1 x 50	50
Verkhne Tagil GRES	3 x 200	600
Beloyarsk Nuclear	1 x 100	100
Solikamsk TETs	1 x 25	25
Total		1,425

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Thermal (Continued)

Plant	Units	Total MW
Region IX		
Barnaul TETs 2	1 x 50	50
Novo Kemerovo TETs	1 x 50	50
W. Sib. Metall. TETs	1 x 50	50
Belovo GRES	2 x 200	400
Tom Usinsk GRES	2 x 200	400
Omsk TETs 3	1 x 50	50
Total		1,000
Region X		
Kazakh		
Kzyl Orda TETs	2 x 12	24
Topar Karaganda GRES 2	1 x 100	100
Petropavlovsk TETs 2	1 x 50	50
Rudnyy TETs	1 x 25	25
Pavlodar TETs 1	2 x 50	100
Total		299
Central Asia		
Navoi GRES	2 x 150	150
Takhia Tash GRES	1 x 12	12
Tashkent GRES	1 x 150	150

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Thermal (Continued)

Plant	Units	Total MW
Central Asia (Continued)		
Dushanbe TETs	1 x 50	50
Nebit Dag TETs	1 x 12	12
Ashkhabad-Bezmein GRES	1 x 50	50
Total		424
Region XI		
Angarsk Refinery TETs	1 x 50	50
Korshunovo TETs	1 x 12	12
Bratsk TETs	1 x 50	50
Norilsk TETs	1 x 100	100
Nazarovo GRES	1 x 150	150
Usolye TETs	1 x 50	50
Ulan Ude TETs	1 x 50	50
Total		462
Region XII		
Khabarovsk TETs	1 x 50	50
Arkhagala TETs	1 x 12	12
Artem GRES	1 x 100	100
Komsomolsk TETs 2	1 x 50	50
Total		212
Total Thermal		8,422

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Hydro

Plant	Units	Total MW
Region I		
Verkhne Tuloma GES	1 x 57	57
Region III		
Dneprodzerzhinsk GES	6 x 44	264
Ladyzhinsk GES		7.5
Kiyev GES	1 x 16	16
Region IV		
Chiryurt GES 2	1 x 9	9
Region V		
Sioni GES	2 x 4.9	10
Region X		
Bukhtarma GES	1 x 75	75
Tsentralnaya GES	2 x 9.3	19
Total Hydro		457
Total Thermal and Hydro		8,879

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II. Planned Additions to Capacity in 1965

A. Over-all Plans

Electric power production	510 billion kwh
New capacity to be commissioned	11,027 mw*
of which thermal	10,224 mw
hydro	803 mw

The capacity of operating powerplants is to be increased by 600 mw by means of modernization of equipment.

40 units of 100-300 mw each will be commissioned in 1965, including:

8 units of 300 mw each

14 units of 200 mw each

8 units of 150 mw each

10 units of 100 mw each

	End 1964 Estimated	End 1965 Estimated
Total capacity	103,100 mw	115,000
of which thermal	81,770 mw	92,800
(including nuclear)	(710)	(710)
hydro	21,300	22,200

* This includes capacity to be commissioned by the Electric Power Ministry only. It does not include powerplants at kolkhozes, construction sites, etc.

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B. New Powerplants Scheduled to Begin Operation in 1965

Plant	Location	
	Coordinates	Region
Kirishskaya GRES	59-27N 32-02E	I
Cherepovets GES	59-05N 37-55E	I
Plyavinas GES	56-38N 25-20E	II
Krivoy Rog GRES 2	47-40N 33-42E	III
Lisichansk TETs 2	48-56N 38-28E	III
Burshtyn GRES	49-16N 24-38E	III
Kremenchug TETs	49-04N 33-25E	III
Novocherkassk GRES	47-28N 40-10E	IV
Kirovakan TETs	40-48N 44-30E	V
Sumgait TETs 2	40-36N 49-38E	V
Melekess Nuclear Powerplant	54-13N 49-36E	VI
Osh TETs	40-32N 72-48E	X
Pavloder TETs 3	52-17N 76-57E	X
Krasnovodsk TETs 2	40-00N 53-00E	X
Baikalsk TETs	51-31N 104-05E	XI
Chita GRES	52-02N 113-25E	XI
Selenga TETs	52-02N 106-52E	XI
Yuzhno Sakhalinsk GRES	49-00N 142-58E	XII
Petropavlovsk TETs	53-01N 158-39E	XII

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C. Large Thermal Electric Generating Units Scheduled to be Installed in 1965

	Units	Total Planned	Total Installed
300 MW Units			
Vievis Litovsk GRES	1 x 300	300	
Krivoy Rog GRES	1 x 300	300	300
Pridneprovskaya GRES	1 x 300	300	
Novocherkassk GRES	1 x 300	300	300
Konakovo GRES	2 x 300	600	
Troitsk GRES	2 x 300	600	300
Total	8	2,400	
200 MW Units			
Pribaltyk GRES	2 x 200	400	
Moldavian GRES	2 x 200	400	
Zmiyev GRES	1 x 200	200	200
Burshtyn GRES	2 x 200	400	200
Stavobeshevo GRES	2 x 200	400	
Zainsk GRES	2 x 200	400	
Shchekino GRES	2 x 200	400	200
Belovo GRES	1 x 200	200	
Tom Usinsk GRES	1 x 200	200	
Total	15	3,000	

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	Units	Total Planned	Total Installed
150 MW Units			
Vievis Litovsk GRES	1 x 150	150	
Nevinnomysk GRES	1 x 150	150	
Yerevan TETs	1 x 150	150	
Ali Bayramly GRES	1 x 150	150	
Tbilisi GRES	1 x 150	150	
Yaiva GRES	1 x 150	150	
Navoi GRES	1 x 150	150	
Tashkent GRES	2 x 150	300	
Nazarovo GRES	1 x 150	150	
Total	10	1,500	
100 MW Units			
Minsk TETs 3	1 x 100	100	
Moscow TETs 12 Frunze	1 x 100	100	
Moscow TETs 20	1 x 100	100	
Moscow TETs 16	1 x 100	100	
Moscow TETs 22	1 x 100	100	
Kashira GRES	1 x 100	100	
Topar Karaganda GRES #2	2 x 100	200	
Frunze TETs	1 x 100	100	
Dushambe TETs	1 x 100	100	
Total	10	1,000	

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D. Regional Listing of Generating Units Scheduled to be Installed in 1965

Plant	Thermal Units	Total MW Planned	Total MW Installed
Region I			
Severodvinsk TETs	1 x 25	25	
Kirish GRES	1 x 50	50	
Pikalevo TETs	1 x 12	12	
Leningrad TETs 17	1 x 50	50	
Total		137	
Region II			
Byelorussia			
Minsk TETs 3	1 x 100	100	
Vasilivichi GRES	1 x 50	50	
Polotsk TETs	1 x 50	50	
Total		200	
Estonia			
Pribaltyk GRES	2 x 200	400	
Lithuania			
Vievis Litovskaya GRES	1 x 150		
	1 x 300	450	150
Region III			
Moldavia			
Moldavian GRES	2 x 200	400	

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Thermal (Continued)

Plant	Units	Total MW Planned	Total MW Installed
Ukraine			
Kremenchug TETs	1 x 50	50	
Krivoy Rog GRES	1 x 300	300	300
P.D. GRES (Pridneprovskaya)	1 x 300	300	
Zmiyev GRES	1 x 200	200	200
Burshtyn GRES	2 x 200	400	200
Kalush TETs (West)	1 x 12	12	
Lisichansk TETs	2 x 50	100	50
Starobeshevo GRES	2 x 200	400	
Cherkassy TETs	1 x 50	50	
Total		1,812	
Region IV			
Novocherkassk GRES	1 x 300	300	300
Nevinnomysk GRES	1 x 150	150	
Total		450	
Region V			
Armenia			
Yerevan TETs	1 x 50 1 x 150	200	
Kirovakan TETs	2 x 12 1 x 25	49	
Total		249	

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Thermal (Continued)

Plant	Units	Total MW Planned	Total MW Installed
Azerbaijan			
Ali Bayramli GRES	1 x 150	150	
Sumgait TETs 2	1 x 50	50	
Kirovabad TETs	1 x 25	25	25
Total		225	
Georgia			
Tbilisi GRES	1 x 150	150	
Region VI			
Tolyatti TETs	1 x 50	50	
Volzhsk TETs	1 x 50	50	
Kazan TETs 2	1 x 50	50	
Zainsk GRES	2 x 200	400	
Melekess Nuclear	1 x 50	50	
Total		600	
Region VII			
Moscow TETs 22	1 x 100	100	
Moscow TETs 12 Frunze	1 x 100	100	100
Moscow TETs 20	1 x 100	100	
Moscow TETs 16	1 x 100	100	

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Thermal (Continued)

Plant	Units	Total MW Planned	Total MW Installed
Shchekino GRES	2 x 200	400	200
Kashira GRES	1 x 100	100	
Novo Gorkiy TETs	1 x 50	50	
Kirov TETs 4	1 x 50	50	
Konakovo	2 x 300	600	
Cheboksary TETs	1 x 50	50	
Novo Ryazan TETs	2 x 50	100	
Dorogobuzh GRES	1 x 50	50	
Saransk TETs 2	1 x 50	50	
Dzerzhinsk TETs	1 x 50	50	
Novo Vladimir TETs	2 x 50	100	
Yaroslavl TETs 3	1 x 50	50	
Total		2,050	
Region VIII			
Troitsk GRES	2 x 300	600	300
Solikamsk TETs 11	1 x 25	25	
Yaiva GRES	1 x 150	150	
Novo Salavat TETs	1 x 50	50	
Sterlitamak TETs New	1 x 50	50	

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Thermal (Continued)

Plant	Units	Total MW Planned	Total MW Installed
Perm TETs New	1 x 50	50	
Orsk Novo Troitsk	1 x 50	50	
Total		975	
Region IX			
Belovo GRES	1 x 200	200	
Tom Usinsk GRES	1 x 200	200	
W. Sib. Metall. TETs	1 x 50	50	
Novo Kemerovo TETs	1 x 50	50	
Total		500	
Region X			
Kazakh			
Toper Kargres No. 2	2 x 100	200	
Aktyubinsk TETs	1 x 25	25	25
Pavlodar TETs 1	1 x 50	50	
Pavlodar TETs 3	1 x 50	50	
Alma Ata GRES	1 x 50	50	
Kzyl Orda TETs	2 x 12	24	
Petropavlovsk TETs 2	1 x 50	50	50
Total		449	
Kirgiz			
Frunze TETs	1 x 100	100	
Osh TETs	1 x 25	25	
Total		125	

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Thermal (Continued)

Plant	Units	Total MW Planned	Total MW Installed
Turkmen			
Ashkhabad Bezmein GRES	1 x 50	50	
Krasnovodsk TETs 2	1 x 50	50	
Nebit Dag GRES	1 x 12	12	
Total		112	
Tadzhik			
Dushambe TETs	1 x 100	100	
Uzbek			
Fergana TETs 2	1 x 50	50	
Navoi GRES	1 x 150	150	
Tashkent GRES	2 x 150	300	150
Total		500	
Region XI			
Chulman TETs	1 x 12	12	12
Nazarovo GRES	1 x 150	150	
Chita GRES	1 x 25	25	
Selenga TETs	2 x 12	24	
Baikalsk TETs	1 x 25	25	
Bratsk TETs	1 x 50	50	
Korshunovo TETs	1 x 12	12	
Total		298	

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Thermal (Continued)

Plant	Units	Total MW Planned	Total MW Installed
Region XII			
Raychikhinsk TETs	2 x 50	100	
Petropavlovsk TETs	2 x 12	24	12
Amursk TETs	1 x 25	25	
Magadan TETs	1 x 4	4	4
Yuzhno Sakhalinsk GRES	1 x 50	50	
Komsomolsk Cellulose TETs	1 x 25	25	
Total		228	
Total Thermal		10,410	

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Hydro

Plant	Units	Total MW Planned	Total MW Installed
Region I			
Verkhne Tuloma GES	3 x 57	171	57
Cherepovets GES	4 x 20	80	
Total		251	
Region II			
Plyavinas GES	4 x 82.5	330	
Region III			
Kiev GES	12 x 16.3	195	32
Region X			
Ust Bukhtarma GES	1 x 77	77	
Chardarinsk GES	2 x 25	50	
Total		127	
Total Hydro		903	
Total Thermal		10,410	
Total		11,313	

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