

Appendix 1: Analysis of the additional demands of the distribution system operators

According to operative provision 10 of the confirmation of the Scenario Framework 2022 [BNetzA 2022], the transmission system operators were instructed to specify the distribution system operators for which an additional demand of more than 3 % has been determined for 2027 compared to the internal orders for 2022 according to their plausibility-tested long-term forecasts. For these distribution system operators, the specific additional demand must be shown in total and as the share attributable to the connection of new network areas with household customers. The transmission system operators have fulfilled this obligation with the following table.

TSO	Distribution system operator	Network interconnection point	Internal order	Long-term forecast	Total growth	Thereof from the connection of new network areas with household customers*
		Terminal/zone name	kWh/h			
			2022	2027	2027/2022	2027/2022
bayernets	Energienetze Bayern GmbH & Co. KG	Total	6,879,160	7,217,389	338,229	37,800
bayernets	REWAG Regensburger Energie- und Wasserversorgung AG & Co KG	vNCT (vNCT REWAG)	1,061,374	11,49,000	87,626	58,000
bayernets	schwaben netz regional gmbh	schwaben netz regional virtuell (vNCT SN)	3,000,000	3,315,530	315,530	150,000
bayernets	SWM Infrastruktur GmbH & Co. KG	(vNCT SWM)	7,325,227	7,690,274	365,047	0
bayernets	Stadtwerke Landshut Netzbetrieb	Stadtwerke Landshut (Station Landshut IIDreisesselstraße und Landshut I Altdorf-Angeweg) (vNKP SWL)	315,883	342,766	26,883	9,409
Ferngas	EAM Netz GmbH	AZ ENM - TSO	90,359	93,799	3,440	not specified
Ferngas	Ferngas Netzgesellschaft mbH	AZ FG - TSO	3,727,273	3,869,158	141,885	31,023
Ferngas	AZ OHG 1 - TSO	AZ OHG 1 - TSO	364,640	378,521	13,881	not specified
Ferngas	TEN Thüringer Energienetze GmbH & Co.KG	AZ TEN TSO	458,529	475,987	17,458	11,931
Ferngas	Eisenach-North - TSO	Eisenach-North - TSO	109,259	113,418	4,159	not specified
Ferngas	Gera - TSO	Gera - TSO	112,000	116,263	4,263	not specified
Ferngas	Stadtwerke Gotha NETZ GmbH	Gotha-East - TSO	84,938	88,171	3,233	500
Ferngas	TEN Thüringer Energienetze GmbH & Co.KG	Neukirchen - TSO	410,000	425,607	15,607	10,668
GASCADE	Gasnetz Hamburg GmbH	Heidenau HH	4,239,292	4,739,292	500,000	0
GASCADE	Stadtwerke Lemgo GmbH	Lemgo	155,000	170,000	15,000	0
GASCADE	Stadtwerke Lippstadt GmbH	Lippstadt	250,000	270,000	20,000	0
GASCADE	e-Netz Südhessen GmbH & Co. KG	RMN	687,496	742,086	54,590	16,490
GASCADE	Stadtwerke Soest GmbH	Soest	201,055	215,000	13,945	3,800
GASCADE	Stadtwerke Weinheim GmbH	Weinheim	150,000	160,000	10,000	1,000
GASCADE	EAM Netz GmbH	Malsfeld-Ostheim	456,963	500,000	43,037	0
GASCADE	Westnetz GmbH	Warburg I	871,000	972,130	101,130	5,264
GASCADE	Stadtwerke Glauchau Dienstleistungsgesellschaft mbH	Glauchau	82,471	87,000	4,529	0
GASCADE	WSW Netz GmbH	Wuppertal-Hohenhagen	533,438	638,774	105,336	0
GASCADE	Stadtwerke Hünfeld GmbH	Hünfeld	64,926	68,000	3,074	320
GTG Nord	Westnetz GmbH	Zone GTG-Westnetz	62,000	65,848	3,848	2,078
GUD	Stadtwerke Uelzen GmbH	H154 - Uelzen	161,486	173,986	12,500	0

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		Terminal/zone name	kWh/h			
			2022	2027	2027/2022	2027/2022
GUD	Schleswig-Holstein Netz AG	H160 – Schleswig-Holstein 1	4,989,133	5,357,333	368,200	100,000
GUD	Celle-Uelzen Netz GmbH	H165 – Uelzen North	77,551	83,000	5,449	0
GUD	Avacon Hochdrucknetz GmbH	H172 – Lüneburg	630,000	680,000	50,000	10,000
GUD	Gasnetz Hamburg GmbH	H195 – Hamburg	2,383,843	2,823,843	440,000	0
GUD	Avacon Hochdrucknetz GmbH	H269 – Hannover East	3,600,000	4,790,000	1,190,000	50,000
GUD	Stadtwerke Verden GmbH	H609 – Verden	173,711	174,232	521	0
GUD	Avacon Hochdrucknetz GmbH	L101 – Hassel	99,000	113,000	14,000	0
GUD**	EWE Netz RVN GmbH	H290 – Hatten-Sandkrug	-	-	-	-
NGT	Versorgungsbetriebe Elbe GmbH	Boizenburg	110,000	114,000	4,000	3,000
Nowega	Westnetz GmbH	Zone Artland	181,000	191,503	10,503	4,832
Nowega	Westnetz GmbH	Zone Wallenhorst	83,000	86,470	3,470	885
Nowega	Westnetz GmbH	Zone Neuenkirchen	22,000	23,847	1,847	1,034
Nowega	Westnetz GmbH	Zone Lemfoerde	55,000	59,431	4,431	2,969
Nowega	Stadtwerke Uelzen	Zone Uelzen	125,552	138,052	12,500	0
Nowega	SW Munster Bispingen	Zone Munster	109,517	115,000	5,483	3,000
Nowega	Gelsenwasser Energienetze GmbH	Zone Bohnhorst	30,229	31,610	1,381	not specified
Nowega	Gelsenwasser Energienetze GmbH	Zone Landesbergen	14,229	14,988	759	not specified
Nowega	SW Bramsche	Zone Bramsche	110,000	115,000	5,000	not specified
OGE	Bayernwerk Netz GmbH	Wildenranna	5,946	6,711	765	0
OGE	Bonn-Netz GmbH	Bonn L2	1,226,609	1,439,109	212,500	61,425
OGE	Creos Deutschland GmbH	Saar-Pfalz 1	481,228	505,393	24,165	not specified
OGE	Creos Deutschland GmbH	Saar-Pfalz 2	3,895,274	4,019,537	124,263	not specified
OGE	Currenta GmbH & Co. OHG	Dormagen Chempark H	110,000	860,000	750,000	0
OGE	Currenta GmbH & Co. OHG	Leverkusen Chempark L	140,000	245,000	105,000	0
OGE	enercity Netz GmbH	Hannover 1	2,520,479	3,151,517	631,038	0
OGE	Energie- und Wasserversorgung Hamm GmbH	Hamm	680,764	724,764	44,000	11
OGE	Energienetze Bayern GmbH & Co. KG	Obernzell – Rothenkreuz	17,300	18,120	820	80
OGE	Energieversorgung Lohr-Karlstadt und Umgebung GmbH & Co. KG	EVLK 2	230,000	250,000	20,000	0
OGE	e-netz Südhessen AG	AZ Darmstadt	2,586,477	2,797,137	210,660	65,960
OGE	e-regio GmbH & Co. KG	RGE H1	178,919	194,845	15,926	13,819
OGE	e-regio GmbH & Co. KG	RGE L1	962,850	1,050,597	87,747	77,012
OGE	EWE NETZ GmbH	Neurhede, Kuhweg	221,729	396,896	175,167	0
OGE	Ferngas Netzgesellschaft mbH	OGR Bayerischer Wald	559,826	585,476	25,650	22,001
OGE	Ferngas Netzgesellschaft mbH	OGR Hauptnetz Ost	5,141,285	5,511,394	370,109	254,881

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** New point in the CCGSP system. EWE has reduced the performance of the GTG system.

TSO	Distribution system operator	Network interconnection point	Internal order	Long-term forecast	Total growth	Thereof from the connection of new network areas with household customers*
		Terminal/zone name	kWh/h			
			2022	2027	2027/2022	2027/2022
OGE	Netzgesellschaft Düsseldorf mbH	Düsseldorf	1,610,056	1,660,057	50,001	0
OGE	Rheinische NETZGesellschaft mbH	BELKAW I	139,914	144,142	4,228	500
OGE	Rheinische NETZGesellschaft mbH	Dormagen	154,130	158,789	4,659	500
OGE	Rheinische NETZGesellschaft mbH	Köln 1	1,263,641	1,301,835	38,194	12,000
OGE	Rheinische NETZGesellschaft mbH	Köln 2	441,952	455,309	13,357	1,500
OGE	Rheinische NETZGesellschaft mbH	Leverkusen	523,170	538,983	15,813	1,000
OGE	Rhein-Sieg Netz GmbH	Königswinter H	57,979	62,275	4,296	1,074
OGE	Rhein-Sieg Netz GmbH	Mettmann	99,520	106,895	7,375	1,844
OGE	Rhein-Sieg Netz GmbH	Niederkassel H	133,365	143,284	9,919	2,480
OGE	Rhein-Sieg Netz GmbH	Rhein-Sieg H	769,209	826,211	57,002	14,250
OGE	Rhein-Sieg Netz GmbH	Rommerskirchen-Eckum, Hermeshoven	32,028	34,401	2,373	593
OGE	Stadtwerke Kempen GmbH	Kempen	169,423	175,000	5,577	0
OGE	Stadtwerke Langenfeld GmbH	Langenfeld	228,213	237,000	8,787	15,000
OGE	SWO Netz GmbH	Osnabrück H	760,000	783,000	23,000	0
OGE	Thüga Energienetze GmbH	Minfeld 1	312,479	360,627	48,148	552
OGE	Thüga Energienetze GmbH	Philippsburg	33,190	51,584	18,394	48
OGE	Westerwald-Netz GmbH	Betzdorf/Kirchen H	70,640	76,249	5,609	1,850
OGE	Westerwald-Netz GmbH	Westerwald Nord H	268,254	289,556	21,302	7,030
OGE	Westnetz GmbH	Bayern 1	143,060	161,465	18,405	0
OGE	Westnetz GmbH	Bohnte-Ostercappeln H	57,500	60,069	2,569	1,644
OGE	Westnetz GmbH	Freudenberg H	39,000	41,720	2,720	0
OGE	Westnetz GmbH	Georgsmarienhütte-Hilter	260,000	282,579	22,579	9,935
OGE	Westnetz GmbH	Sohren, Dill	122,000	126,881	4,881	2,685
OGE	YNCORIS GmbH & Co. KG	Hürth	60,000	80,000	20,000	0
ONTRAS	E.DIS Netz GmbH	NKP-Zone E.DIS	1,209,140	1,247,670	38,530	0
ONTRAS	Gasversorgung Zehdenick GmbH	NKP-Zone GV Zehdenick	24,883	26,100	1,217	0
ONTRAS	InfraLeuna GmbH	NCT Zone InfraLeuna	400,500	450,500	50,000	0
ONTRAS	Infrastrukturbetrieb der Stadt Arneburg	NKP-Zone ISB Arneburg	120,000	125,000	5,000	0
ONTRAS	NBB Netzgesellschaft Berlin-Brandenburg mbH & Co. KG	NKP-Zone NBB 2	9,800,151	10,300,151	500,000	0
ONTRAS	Netz Leipzig GmbH	NKP-Zone Netz Leipzig	1,473,517	2,033,517	560,000	0
ONTRAS	SachsenNetze GmbH	NKP-Zone SachsenNetze HS.HD Zone 2	1,516,391	1,694,682	178,291	33,550
ONTRAS	Stadt- und Überlandwerke GmbH Luckau-Lübbenau	NKP-Zone SW Luckau-Lübbenau	130,000	137,000	7,000	4,000
ONTRAS	Stadtwerke Bernau GmbH	NKP-Zone SW Bernau	125,169	133,000	7,831	1,175

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		Terminal/zone name	kWh/h			
			2022	2027	2027/2022	2027/2022
ONTRAS	Stadtwerke Ribnitz-Damgarten GmbH	NKP-Zone SW Ribnitz-Damgarten	16,000	16,500	500	500
ONTRAS	TEN Thüringer Energienetze GmbH & Co. KG	NKP-Zone TEN	290,000	320,183	30,183	7,546
terranets	bnNetze GmbH	RC badenova	4,380,000	4,700,000	320,000	0
terranets	Stadtwerke Balingen	RC Balingen 1	53,600	57,600	4,000	3,000
terranets	Stadtwerke Bebra GmbH	RC Bebra	34,850	36,500	1,650	1,650
terranets	e.wa riss Netze GmbH	RC Biberach	250,906	265,906	15,000	0
terranets	Stadtwerke Bretten GmbH	RC Bretten	90,000	94,655	4,655	0
terranets	Energie- und Wasserversorgung Bruchsal GmbH	RC Bruchsal	150,000	156,300	6,300	150
terranets	Stadtwerke Crailsheim GmbH	RC Crailsheim	102,989	108,213	5,224	2,400
terranets	EAM Netz GmbH	RC EAM Heringen	19,665	21,000	1,335	0
terranets	Stadtwerke Ellwangen GmbH	RC Ellwangen	90,500	97,000	6,500	3,500
terranets	Netze BW GmbH	RC EnBW StutThyssengasart	6,993,234	9,090,921	2,097,687	12,566
terranets	Netze BW GmbH	RC EnBW-North	248,995	266,446	17,451	419
terranets	Netze ODR GmbH	RC EnBW-ODR	327,000	393,000	66,000	44,000
terranets	Stadtwerke Bietigheim-Bissingen GmbH	RC Erligheim	3,814	4,859	1,045	1,045
terranets	GEO Gesellschaft für Energieversorgung Ostalb mbH	RC Essingen-Oberkochen	104,515	140,115	35,600	1,200
terranets	SWE Netz GmbH	RC Ettlingen	210,000	220,000	10,000	6,000
terranets	Energieversorgung Filstal GmbH & Co. KG	RC Filstal	537,000	687,000	150,000	20,000
terranets	NRM Netzdienste Rhein-Main GmbH	RC Frankfurt	4,917,397	5,302,626	385,229	0
terranets	NHF Netzgesellschaft Heilbronn-Franken mbH	RC Gaildorf	37,012	40,000	2,988	588
terranets	Stadtwerke Giengen GmbH	RC Giengen	133,069	145,069	12,000	not specified
terranets	TWS Netz GmbH	RC GVO	935,225	1,015,000	79,775	0
terranets	Stadtwerke Heidelberg Netze GmbH	RC Heidelberg	644,841	711,000	66,159	35,000
terranets	Hellenstein-Energie-Logistik GmbH	RC Heidenheim	302,325	325,690	23,365	0
terranets	RhönEnergie Osthessen GmbH	RC Homberg (Ohm)	169,000	180,000	11,000	0
terranets	eneREGIO GmbH	RC Kuppenheim	20,200	22,500	2,300	not specified
terranets	Stadtwerke Heidenheim regio GmbH	RC Königsbronn	26,090	28,590	2,500	0
terranets	Stadtwerke Mühlacker GmbH	RC Mühlacker	95,000	102,500	7,500	0
terranets	Regionalwerke Neckar-Kocher GmbH & Co. KG	RC Neckarsulm	108,000	112,000	4,000	not specified
terranets	Netze-Gesellschaft Südwest mbH	RC NGS-Nordbaden	674,061	753,708	79,647	0
terranets	Netze-Gesellschaft Südwest mbH	RC NGS-Oberschwaben	657,893	719,246	61,353	0

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		Terminal/zone name	kWh/h			
			2022	2027	2027/2022	2027/2022
terraneTS	Thüga Energienetze GmbH	RC Oberschwaben	654,127	722,209	68,082	1,415
terraneTS	RhönEnergie Osthessen GmbH	RC East Hesse	260,000	270,000	10,000	0
terraneTS	SWP Stadtwerke Pforzheim GmbH & Co. KG	RC Pforzheim	637,000	715,000	78,000	54,600
terraneTS	FairNetz GmbH	RC Reutlingen	1,174,000	1,236,000	62,000	10,000
terraneTS	ENRW Energieversorgung Rottweil GmbH & Co. KG	RC Rottweil	232,195	246,480	14,285	4,714
terraneTS	Stadtwerke Schramberg GmbH & Co. KG	RC Schramberg	102,218	117,218	15,000	5,000
terraneTS	Stadtwerke Schwäbisch Gmünd GmbH	RC Schwäbisch-Gmünd	204,930	252,784	47,854	17,854
terraneTS	Stadtwerke Schwäbisch Hall GmbH	RC Schwäbisch-Hall	160,000	165,000	5,000	5,000
terraneTS	Thüga Energienetze GmbH	RC Singen	561,449	619,886	58,437	1,390
terraneTS	Stadtwerke Stockach GmbH	RC Stockach	25,870	29,000	3,130	2,130
terraneTS	Stadtwerk Tauberfranken GmbH	RC Tauberfranken	295,000	320,000	25,000	14,000
terraneTS	Stadtwerke Ulm/Neu-Ulm Netze GmbH	RC Ulm	897,766	979,801	82,035	1,500
Thyssengas	Regionetz GmbH – H	Aachen – Regionetz GmbH – H	615,000	670,000	55,000	2,500
Thyssengas	Rheinische Netzgesellschaft mbH	Aggertal – Rheinische Netzgesellschaft mbH	719,265	741,005	21,740	2,000
Thyssengas	Rheinische Netzgesellschaft mbH	BELKAW II – Rheinische Netzgesellschaft mbH	270,493	278,668	8,175	500
Thyssengas	Westnetz GmbH	Bergheim I – Westnetz GmbH	190,433	197,742	7,309	1,309
Thyssengas	Westnetz GmbH	Bergheim II – Westnetz GmbH	90,000	148,507	58,507	993
Thyssengas	Westnetz GmbH	Bergheim III – Westnetz GmbH	48,000	50,213	2,213	1,554
Thyssengas	Bocholter Energie- und Wasserversorgung GmbH	Bocholt – Bocholter Energie- und Wasserversorgung GmbH	243,000	268,000	25,000	0
Thyssengas	Stadtwerke Borken/Westf. GmbH	Borken – Reken-Velen-Heiden-Borken-Raesfeld – Stadtwerke Borken/Westf.	132,500	140,651	8,151	367
Thyssengas	Stadtwerke Borken/Westf. GmbH	Borken – Stadt – Stadtwerke Borken/Westf. GmbH	189,000	200,627	11,627	407
Thyssengas	Westnetz GmbH	Büren – Weine – Westnetz GmbH	421,000	542,078	121,078	240
Thyssengas	Stadtwerke Coesfeld GmbH	Coesfeld – Stadtwerke Coesfeld GmbH	145,000	152,400	7,400	not specified
Thyssengas	Gelsenwasser Energienetze GmbH	Darup – Gelsenwasser Energienetze GmbH	154,417	161,500	7,083	not specified

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			2022	2027	2027/2022	2027/2022
Thyssengas	Regionetz GmbH	Dinslaken – Regionetz GmbH	160,000	165,000	5,000	500
Thyssengas	Netzgesellschaft Düsseldorf mbH	Düsseldorf – Netzgesellschaft Düsseldorf mbH	1,610,057	1,670,057	60,000	not specified
Thyssengas	Stadtwerke Emsdetten GmbH	Emsdetten – Stadtwerke Emsdetten GmbH	144,898	159,077	14,179	not specified
Thyssengas	Westnetz GmbH	Everswinkel – Westnetz GmbH	28,500	29,611	1,111	385
Thyssengas	Stadtwerke Geldern Netz GmbH	Geldern – Stadtwerke Geldern Netz GmbH	140,000	150,000	10,000	0
Thyssengas	Gelsenwasser Energienetze GmbH	Geseke – Gelsenwasser Energienetze GmbH	64,521	69,000	4,479	not specified
Thyssengas	Stadtwerke Haltern am See GmbH	Haltern I – Stadtwerke Haltern am See GmbH	129,554	135,000	5,446	1,650
Thyssengas	Veolia Industriepark Deutschland GmbH	Heinsberg – Veolia Industriepark Deutschland GmbH	44,000	46,000	2,000	not specified
Thyssengas	Westnetz GmbH	Holzwickede – Westnetz GmbH	65,000	66,658	1,658	15
Thyssengas	Gelsenwasser Energienetze GmbH	Kalkar I – Gelsenwasser Energienetze GmbH	13,446	13,947	501	not specified
Thyssengas	Gelsenwasser Energienetze GmbH	Kalkar II – Gelsenwasser Energienetze GmbH	29,818	31,000	1,182	not specified
Thyssengas	Westnetz GmbH	Kerpen – Westnetz GmbH	121,650	126,487	4,837	1,280
Thyssengas	Stadtwerke Goch GmbH	Kranenburg – Stadtwerke Goch GmbH	22,706	27,920	5,214	5,000
Thyssengas	Rheinische Netzgesellschaft mbH	Köln I – Rheinische Netzgesellschaft mbH	1,214,086	1,250,781	36,695	5,000
Thyssengas	Westnetz GmbH	Möhnesee – Westnetz GmbH	33,000	34,822	1,822	965
Thyssengas	Westnetz GmbH	Neuenkirchen – Westnetz GmbH	59,000	60,512	1,512	579
Thyssengas	Gelsenwasser Energienetze GmbH	NGW I – Gelsenwasser Energienetze GmbH	164,446	177,137	12,691	not specified
Thyssengas	Gelsenwasser Energienetze GmbH	NGW III – Gelsenwasser Energienetze GmbH	87,209	90,000	2,791	not specified
Thyssengas	Gelsenwasser Energienetze GmbH	NGW VI – Gelsenwasser Energienetze GmbH	33,417	34,000	583	not specified
Thyssengas	Gelsenwasser Energienetze GmbH	NGW VIII – Gelsenwasser Energienetze GmbH	252,836	264,618	11,782	not specified

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		kWh/h				
		Terminal/zone name	2022	2027	2027/2022	2027/2022
Thyssengas	Rheinische Netzgesellschaft mbH	Rhein-Erft – Rheinische Netzgesellschaft mbH	721,060	742,854	21,794	2,500
Thyssengas	Gelsenwasser Energienetze GmbH	Rosendahl – Gelsenwasser Energienetze GmbH	32,341	33,000	659	not specified
Thyssengas	Westnetz GmbH	Rüthen – Westnetz GmbH	31,000	31,952	952	512
Thyssengas	Gelsenwasser Energienetze GmbH	Saerbeck – Gelsenwasser Energienetze GmbH	17,099	17,851	752	not specified
Thyssengas	Stadtwerke Steinfurt GmbH	Steinfurt – Stadtwerke Steinfurt GmbH	133,023	141,056	8,033	not specified
Thyssengas	SVS-Versorgungsbetriebe GmbH	Südlohn – SVS-Versorgungsbetriebe GmbH	46,188	51,000	4,812	0
Thyssengas	Stadtwerke Unna GmbH	Unna – Stadtwerke Unna GmbH	234,700	250,000	15,300	0
Thyssengas	SVS-Versorgungsbetriebe GmbH	Vreden – SVS-Versorgungsbetriebe GmbH	76,150	79,000	2,850	0
Thyssengas	Westnetz GmbH	Wettringen – Westnetz GmbH	22,000	22,635	635	293
Thyssengas	WSW Netz GmbH	Wuppertal I – WSW Netz GmbH	608,899	640,363	31,464	0

Source: Transmission system operators

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