

2014-2018 Generating Unit Statistical Brochure -- All Units Reporting

NOTE: This brochure contains data on units reporting events only. For a review of statistics containing units that reported events, see the brochure "2014-2018 Generating Unit Statistical Brochure -- Units Reporting Events".

(The differences between statistics with or with events will appear in equations needing derating information such as EAF, EFOR, and other equations. The equations are more accurate if events are reported.)

Unit Type	MW Trb/Gen Nameplate	# of Units	Unit-Years	ART	SR	NCF	NOF	SF	AF	EAF	FOR	EFOR	EFORD	SOF	FOF	UOF	EUOF	EUOR	POF	MOF	WSF	WAF	WEAF	WFOR	WEFOR	WSOF	WFOF	
FOSSIL All Fuel Types	All Sizes	1350	5751.5	169.88	98.68	44.31	72.55	53.41	82.93	80.29	8.53	11.3	8.85	12.09	4.98	8.4	10.28	16.53	8.67	3.41	61.07	81.9	79.3	7.68	10.28	13.02	5.08	
FOSSIL All Fuel Types	001-099	327	1278	124.91	99.2	29.21	63.99	42.95	85.24	82.63	10.56	13.41	9.19	9.69	5.07	8.25	9.92	19.21	6.51	3.18	45.66	85.19	82.66	9.6	12.4	9.96	4.85	
FOSSIL All Fuel Types	100-199	320	1320.75	73.39	99.34	28.29	62.56	43.6	84.14	81.35	8.55	11.54	7.62	11.78	4.08	7.34	8.99	17.45	8.52	3.26	45.22	83.87	80.98	8.21	11.22	12.09	4.04	
FOSSIL All Fuel Types	200-299	158	658	246.36	97.85	37.07	66.64	55.62	81.09	78.54	9.74	12.45	10.25	12.91	6	9.99	11.92	18.04	8.92	3.99	55.63	81.43	78.9	9.41	12.09	12.79	5.78	
FOSSIL All Fuel Types	300-399	113	527.25	214.33	98.04	33.57	64.67	52.63	82.01	79.71	7.92	10.7	8.61	13.47	4.53	7.8	9.62	15.82	10.19	3.27	51.91	81.98	79.74	7.97	10.73	13.52	4.49	
FOSSIL All Fuel Types	400-599	213	951	326.56	97.54	45.49	72.34	62.62	81.37	78.46	8.44	11.47	10	12.86	5.77	9.21	11.53	16	9.43	3.44	62.88	81.37	78.46	8.48	11.5	12.81	5.82	
FOSSIL All Fuel Types	600-799	143	660.5	526.9	96.75	53.03	77.47	68.39	82.32	79.73	6.64	9.03	8.22	12.82	4.86	8.31	10.39	13.51	9.38	3.44	68.45	82.22	79.65	6.67	9.05	12.88	4.89	
FOSSIL All Fuel Types	800-999	60	291	271.43	97.96	49.77	75.24	65.72	82.28	80.21	6.17	8.36	7.33	13.4	4.32	7.72	9.64	13.09	10	3.4	66.14	82.39	80.33	6.1	8.26	13.31	4.3	
FOSSIL All Fuel Types	1000 Plus	16	60	694.46	95.43	55.32	78.58	69.56	75.2	71.99	8.98	10.71	10.2	17.94	6.87	12.38	14.2	17.3	12.42	5.51	70.4	75.45	72.38	8.7	10.39	17.84	6.71	
FOSSIL Coal Primary	All Sizes	858	3483.5	355.19	97.83	54.69	76.07	65.47	83	80.2	7.22	9.63	8.5	11.9	5.09	8.7	10.7	14.38	8.3	3.61	71.9	82.19	79.45	6.72	8.99	12.63	5.18	
FOSSIL Coal Primary	001-099	146	491.67	225.11	98.69	36	72.91	45.32	86.11	83.97	8.98	11.34	8.65	9.42	4.47	7.72	9.18	17.14	6.17	3.25	49.38	86.88	84.77	7.26	9.58	9.26	3.87	
FOSSIL Coal Primary	100-199	215	763.42	159.66	98.89	39.7	67.98	57.93	85.15	81.74	6.73	9.48	7.54	10.67	4.18	7.79	9.76	14.75	7.05	3.62	58.41	85.06	81.62	6.58	9.45	10.83	4.12	
FOSSIL Coal Primary	200-299	113	455	457.05	96.82	45.62	72.57	62.93	80.15	77.3	9.8	12.2	10.86	13.01	6.84	11.23	13.19	17.73	8.62	4.39	62.86	80.74	77.89	9.42	11.82	12.72	6.54	
FOSSIL Coal Primary	300-399	66	306.58	465.11	96.66	48.49	72.19	67.1	81.69	78.82	7.02	9.81	8.86	13.24	5.07	8.98	11.26	14.76	9.33	3.91	67.17	81.8	78.95	7.01	9.78	13.14	5.06	
FOSSIL Coal Primary	400-599	143	660.5	557.15	97.24	57.25	75.69	75.59	82.1	79.13	6.86	9.41	8.94	12.33	5.57	8.79	11.12	13.16	9.11	3.22	75.65	82.04	79.06	6.9	9.48	12.35	5.61	
FOSSIL Coal Primary	600-799	118	539.33	642.66	96.75	59.62	78.55	75.8	83.34	80.77	5.78	7.82	7.4	12.01	4.65	8.03	10.04	11.96	8.63	3.38	75.9	83.34	80.77	5.78	7.82	12	4.66	
FOSSIL Coal Primary	800-999	43	206	702.28	95.41	58.22	77.39	75.13	81.38	79.17	6.51	8.41	8.03	13.39	5.23	8.76	10.8	12.84	9.86	3.53	75.23	81.56	79.37	6.41	8.29	13.29	5.15	
FOSSIL Coal Primary	1000 Plus	14	56	705.56	95.19	57.49	79.7	71.72	75.78	72.85	7.91	9.33	8.99	18.06	6.16	11.85	13.37	16	12.37	5.69	72.14	75.92	73.07	7.86	9.3	17.93	6.15	
FOSSIL Oil Primary	All Sizes	89	283	81.47	99.13	7.18	44.78	24.32	83.92	82.27	10.85	15.69	8.43	13.12	2.96	7.63	9.16	28.22	8.45	4.67	16.03	80.89	79.63	15.47	20.1	16.18	2.93	
FOSSIL Oil Primary	001-099	27	92.42	70.78	99.63	26.68	49.42	45.25	86.65	83.67	5.25	10.64	6.6	10.85	2.51	9.35	12.26	22.18	4.01	6.84	53.99	85.47	82.09	4.41	9.59	12.04	2.49	
FOSSIL Oil Primary	100-199	19	65.33	161.3	97.68	10.78	54.03	17.42	85.39	84.02	19.12	24.3	14.43	10.49	4.12	7.96	9.29	35.72	6.64	3.84	19.95	84.82	83.38	16.69	21.7	11.18	4	
FOSSIL Oil Primary	200-299	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
FOSSIL Oil Primary	300-399	13	47	164.32	98.66	10.89	40.77	26.16	80.86	80.33	8.61	9.81	7.1	16.67	2.46	4.93	5.32	17.01	14.2	2.47	26.7	81.05	80.5	8.04	9.24	16.62	2.34	
FOSSIL Oil Primary	400-599	12	33.58	23.33	98.6	1.62	41.22	3.95	85.41	84.47	49.84	56.08	23.34	10.66	3.92	7.31	8.06	69	7.28	3.39	3.93	85.35	84.42	50.41	56.53	10.66	4	
FOSSIL Oil Primary	600-799	7	25.42	32.14	98.64	3.2	44.43	7.43	80.37	79.79	8.37	13.1	6.17	18.95	0.68	6.7	7.16	49.56	12.93	6.02	7.19	78.49	77.88	8.76	14.03	20.82	0.69	
FOSSIL Oil Primary	800-999	7	12.92	53.48	87.37	0.56	28.63	1.98	77.21	76.7	5.68	22.49	5.36	22.67	0.12	3.87	4.32	68.63	18.92	3.75	1.95	77.46	76.94	5.73	22.95	22.43	0.12	
FOSSIL Gas Primary	All Sizes	422	1557.75	57.06	98.98	11.55	40.74	26.08	81.62	79.75	16.77	20.38	10.69	13.12	5.25	8.46	9.82	27.83	9.92	3.21	28.35	79.7	77.62	16.01	20.12	14.89	5.41	
FOSSIL Gas Primary	001-099	126	441.92	63.56	99.04	11.18	43.13	20.49	83.43	82.16	24.95	26.91	12.19	9.76	6.81	9.89	10.55	34.19	6.69	3.08	25.92	82.37	80.98	21.89	23.66	10.36	7.26	
FOSSIL Gas Primary	100-199	116	463.58	40.84	99.32	11.44	43.25	25.29	82.79	80.75	12.54	16.18	8	13.59	3.63	6.39	7.67	23.64	10.82	2.77	26.46	82.24	80	12.1	15.65	14.12	3.64	
FOSSIL Gas Primary	200-299	53	178	94.49	99.07	14.74	40.24	36.45	82.22	80.29	10.83	14.87	9.31	13.35	4.43	7.86	9.73	21.45	9.92	3.43	36.63	82.03	80.18	10.64	14.49	13.61	4.36	
FOSSIL Gas Primary	300-399	40	158.5	61.96	98.72	9.83	35.37	27.99	81.77	79.97	13.69	17.36	9.89	13.79	4.44	6.96	8.42	23.49	11.26	2.52	27.8	81.56	79.8	13.73	17.35	14.01	4.43	
FOSSIL Gas Primary	400-599	62	227.33	77.67	98.19	12.32	41.75	29.37	77.84	75.11	18.91	24.22	14.66	15.31	6.85	11.12	13.34	32.37	11.04	4.27	29.52	78.08	75.35	19	24.22	14.99	6.93	
FOSSIL Gas Primary	600-799	16	54.33	143.21	95.08	11.78	47.17	24.05	70.45	68.01	26.22	31.71	21.46	21.01	8.55	12.73	15.16	39.44	16.82	4.19	24.97	71.14	68.8	25.45	30.71	20.34	8.53	
FOSSIL Gas Primary	800-999	9	34.08	19.89	99.44	7.81	32.71	23.76	83.08	82.64	4.94	6.16	2.86	15.68	1.24	5.47	5.89	19.9	11.45	4.23	23.88	82.96	82.51	4.81	6.05	15.83	1.21	
FOSSIL Lignite Primary	All Sizes	35	130.25	54.05	99.52	66.39	80.43	81.87	87.31	83.06	4.55	8.5	8.01	8.79	3.9	5.4	8.96	10.27	7.29	1.5	82.55	88.05	83.77	4.67	9	7.9	4.05	
FOSSIL Oil/Gas Primary	001-099	148	534.33	65.67	99.21	14.33	45.31	24.78	83.98	82.42	19.67	22.56	10.83	9.95	6.07	9.79	10.85	30.92	6.22	3.73	31.62	83	81.2	16.6	19.41	10.7	6.3	
FOSSIL Oil/Gas Primary	100-199	127	528.92	43.57	99.29	11.37	44.18	24.36	83.09	81.13	13.13	16.91	8.3	13.22	3.68	6.58	7.86	24.81	10.33	2.9	25.74	82.52	80.37	12.51	16.2	13.8	3.68	
FOSSIL Oil/Gas Primary	200-299	54	180.33	94.41	99.03	14.64	40.33	36.14	82.35	80.44	10.84	14.88	9.31	13.26	4.39	7.8	9.65	21.46	9.85	3.41	36.29	82.16	80.33	10.65	14.5	13.51	4.32	
FOSSIL Oil/Gas Primary	300-399	51	205.5	70.91	98.7	10.07	36.54	27.6	81.58	80.05	12.71	15.92	9.32	14.4	4.02	6.53	7.75	22.25	11.89	2.51	27.56	81.45	79.96	12.56	15.7	14.59	3.96	
FOSSIL Oil/Gas Primary	400-599	69	260.92	74.08	98.23	10.9																						

FOSSIL Oil/Gas Primary	800-999	11	47	20.28	99.29	5.75	32.58	17.77	81.47	81.01	4.97	6.77	2.84	17.6	0.93	5.03	5.46	23.54	13.5	4.1	17.66	81.4	80.93	4.84	6.69	17.7	0.9	
FOSSIL Oil/Gas Primary	All Sizes	483	1840.75	59.62	99.01	10.75	41.2	25.81	81.97	80.14	15.97	19.74	10.38	13.12	4.9	8.33	9.72	27.88	9.69	3.43	26.1	79.92	77.99	15.95	20.12	15.13	4.95	
NUCLEAR All Types	All Sizes	105	496.75	4,470.73	98.37	91.38	99	92.39	92.4	90.58	1.58	2.14	2.14	6.11	1.48	1.85	2.66	2.83	5.75	0.37	92.3	92.31	90.48	1.62	2.18	6.17	1.52	
NUCLEAR All Types	400-799	14	64	3,545.82	98.27	89.74	97.23	92.37	92.45	90.09	1.85	2.6	2.6	5.81	1.74	2.49	3.46	3.65	5.06	0.75	92.3	92.37	90.04	1.86	2.63	5.88	1.75	
NUCLEAR All Types	800-999	37	169.75	4,790.66	97.7	92.45	99.56	92.92	92.92	91.49	1.27	1.79	1.79	5.89	1.19	1.46	2.27	2.4	5.62	0.27	92.86	92.86	91.44	1.29	1.81	5.93	1.21	
NUCLEAR All Types	1000 Plus	54	263	4,558.68	98.88	91.06	98.95	92.06	92.06	90.11	1.72	2.26	2.26	6.33	1.61	1.94	2.73	2.9	5.99	0.33	92.03	92.03	90.08	1.76	2.3	6.32	1.65	
NUCLEAR PWR	All Sizes	62.00	306.00	4,523.42	97.8	91.53	99.59	91.89	91.89	90.51	1.48	1.89	1.89	6.73	1.38	1.69	2.23	2.38	6.41	0.31	91.91	91.91	90.51	1.44	1.86	6.75	1.34	
NUCLEAR PWR	400-799	5.00	23.00	2,720.53	100	89.75	99.12	90.65	90.65	88.87	2.18	2.43	2.43	7.33	2.02	3.4	3.79	4.02	5.95	1.38	90.55	90.55	88.85	2.09	2.33	7.52	1.93	
NUCLEAR PWR	800-999	22.00	110.00	4,786.20	96.57	92.2	100.02	92.29	92.29	91.28	1.33	1.72	1.72	6.47	1.24	1.49	2	2.13	6.22	0.25	92.18	92.18	91.17	1.34	1.74	6.56	1.26	
NUCLEAR PWR	1000 Plus	35.00	173.00	4,761.01	98.26	91.33	99.42	91.8	91.8	90.25	1.49	1.93	1.93	6.81	1.38	1.6	2.16	2.31	6.6	0.21	91.87	91.87	90.3	1.45	1.89	6.78	1.35	
NUCLEAR BWR	All Sizes	34.00	158.00	4,539.35	98.37	91.98	98.28	93.91	93.91	91.32	1.49	2.29	2.29	4.67	1.42	1.9	3.22	3.36	4.19	0.48	93.59	93.59	91.02	1.61	2.39	4.88	1.54	
NUCLEAR BWR	400-799	5.00	21.00	3,578.16	94.24	91.17	96.29	94.79	94.79	91.76	2.2	3.51	3.51	3.07	2.14	2.61	4.47	4.59	2.6	0.47	94.69	94.69	91.68	2.28	3.57	3.11	2.2	
NUCLEAR BWR	800-999	11.00	49.00	5,675.08	98.66	94.43	99.17	95.18	95.18	92.94	0.8	1.59	1.59	4.06	0.76	1.09	2.39	2.48	3.73	0.33	95.22	95.22	93.04	0.79	1.56	4.02	0.76	
NUCLEAR BWR	1000 Plus	18.00	88.00	4,312.86	100	91.05	98.15	93	93	90.32	1.7	2.4	2.4	5.39	1.61	2.18	3.39	3.56	4.82	0.57	92.77	92.77	90.1	1.88	2.58	5.46	1.78	
NUCLEAR CANDU	All Sizes	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
JET ENGINE	All Sizes	315	1302.58	4.79	98.73	4.62	80.12	4.21	90.1	88.55	37.59	39.67	10.37	6.5	3.4	6.68	7.12	55.25	3.22	3.28	5.77	89.73	87.48	32.85	35.9	6.64	3.63	
JET ENGINE	001-019	38	152.08	5.2	95.86	0.3	39.35	0.85	91.17	91.13	76.94	77.07	19.74	6	2.83	5.94	5.98	87.38	2.89	3.11	0.76	90.89	90.85	79.55	79.68	6.17	2.94	
JET ENGINE	20 Plus	277	1150.5	4.78	98.78	4.83	80.37	4.65	89.95	88.2	35.62	37.85	10.18	6.57	3.48	6.78	7.27	53.12	3.26	3.31	6.01	89.67	87.31	32.11	35.22	6.66	3.66	
GAS TURBINE	All Sizes	750	3504.25	8.16	98.28	4.27	69.66	4.25	89.65	87.49	47.1	48.58	10.75	6.54	3.81	6.23	6.46	60.18	4.12	2.41	6.13	90.1	87.88	33.47	35.08	6.8	3.1	
GAS TURBINE	001-019	127	550	3.04	96.24	0.66	73.08	0.91	88.44	87.72	84.47	84.77	17.24	6.62	4.94	8.43	8.53	90.41	3.13	3.49	0.91	88.01	87.31	84.9	85.15	6.88	5.11	
GAS TURBINE	020-049	158	705.25	5.47	98.76	3.26	80.87	2.71	90.5	87.06	62.29	63.06	11.08	5.03	4.48	6.23	6.36	70.22	3.27	1.76	4.03	90.44	86.88	48.97	49.97	5.69	3.87	
GAS TURBINE	50 Plus	464	2247	9.46	98.4	4.52	68.98	5.5	89.67	87.56	37.67	39.6	9.65	6.98	3.35	5.72	6.02	52.08	4.62	2.37	6.55	90.15	88	30.93	32.64	6.91	2.94	
COMBINED CYCLE	All Sizes	333	1400.58	77.7	98.71	53.59	79.92	55.5	87.91	84.9	4.05	5.09	3.94	9.75	2.34	3.92	4.71	7.89	8.17	1.58	67.05	88.5	85.17	2.49	3.57	9.79	1.72	
HYDRO	All Sizes	1064	4672	29.33	99.94	37.63	60.72	60.04	80.81	80.27	8.64	8.89	7.52	13.17	6.02	7.93	8.12	11.34	11.26	1.91	61.98	82.38	81.92	4.27	4.4	14.76	2.87	
HYDRO	001-029	403	1821	94.19	99.85	32.85	55.21	56.77	76.47	75.96	14.91	15.34	13.75	12.72	10.81	12.55	12.89	17.35	10.98	1.74	59.51	82.13	81.62	7.19	7.71	12.77	5.1	
HYDRO	30 Plus	661	2851	20.96	99.95	37.97	61.09	62.12	83.57	82.99	4.39	4.51	3.71	13.45	2.98	5	5.1	7.29	11.43	2.02	62.15	82.39	81.94	4.05	4.16	14.9	2.71	
PUMPED STORAGE	All Sizes	111	553.00	9.13	99.91	8.11	46.52	28.34	82.06	81.83	7.44	7.52	5.25	14.47	3.46	5.49	5.52	11.38	12.45	2.02	17.43	79.61	78.98	8.85	9.17	17.00	3.39	
MULTI-BOILER/MULTI-TURBINE	All Sizes	22	103.00	373.07	99.07	37.54	63.79	68.79	87.22	79.60	3.13	9.60	8.03	10.56	2.22	4.34	9.91	13.48	8.44	2.12	58.84	84.27	79.78	2.86	6.78	13.99	1.73	
DIESEL	All Sizes	166	684.17	10.21	99.29	10.35	62.47	7.57	94.11	93.49	18.91	20.50	6.23	4.12	1.76	3.64	3.86	34.04	2.24	1.88	16.57	94.72	93.46	8.60	11.23	3.72	1.56	

Obtained from North American Electric Reliability Corporation (NERC) Generation Availability Data System (GADS), Generating Unit Statistical Brochures, available at <https://www.nerc.com/pa/RAPA/gads/Pages/Reports.aspx>