



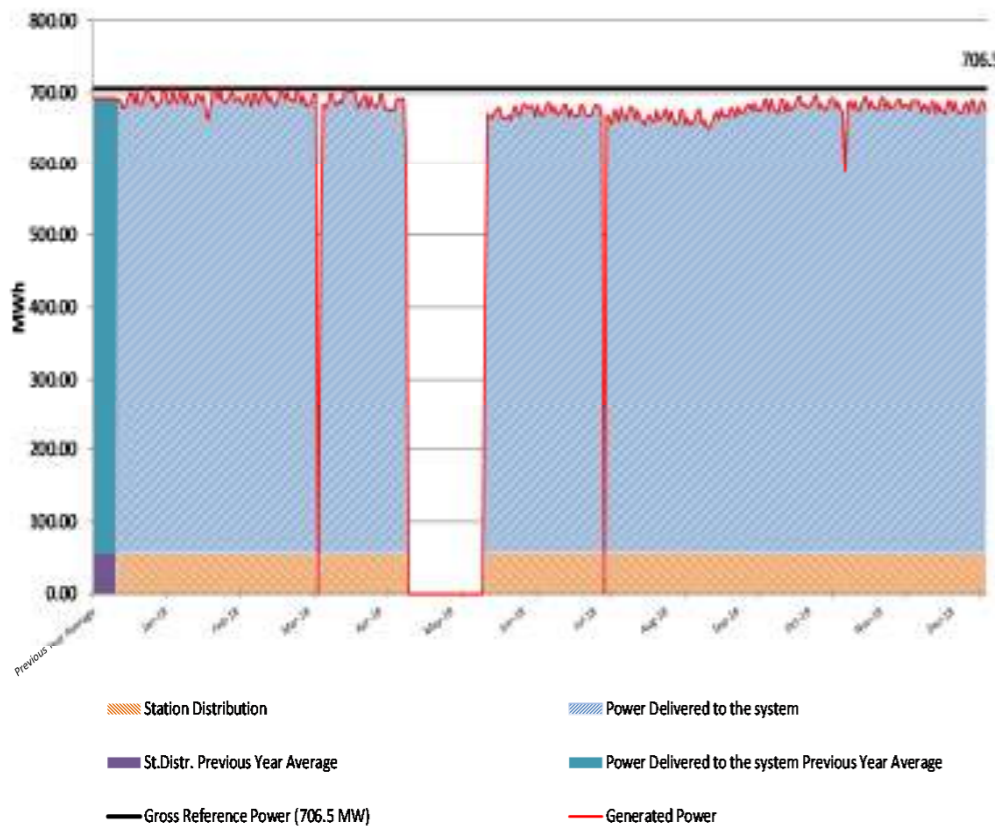
# Cernavoda NPP UNIT 1 and UNIT 2 Since in Service



## STATION PERFORMANCES SINCE COMMERCIAL

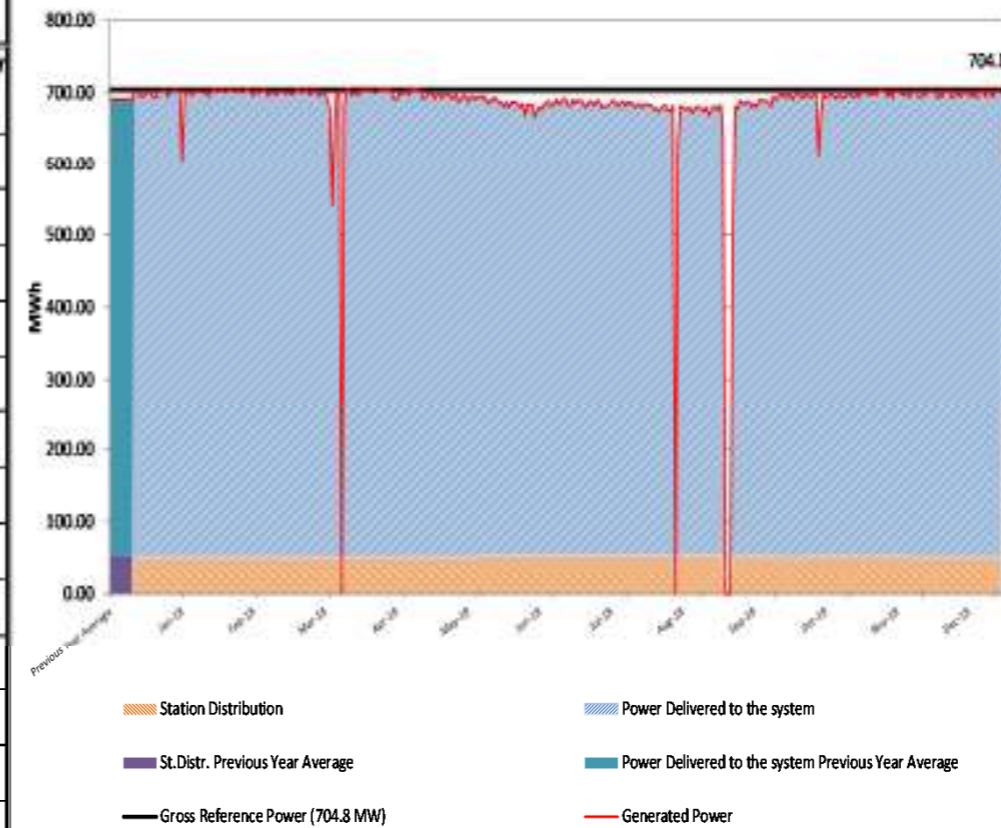
Year	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	TOTAL since commercial													
	U1 Since comm.	U1	U1	U1	U1	U1	U1	U1	U1	U1	U1	U1	U1	U2	U1	U2	U1	U2	U1	U2	U1	U2	U1	U2	U1	U2	U1	U2	U1	U2							
(Gross) [MWh]	506,832	5,400,856	5,307,181	5,198,083	5,455,751	5,445,900	5,513,410	4,905,663	5,548,082	5,554,959	5,631,510	6,005,176	961,986	5,227,976	5,997,832	6,158,677	5,593,082	5,622,273	6,001,219	6,133,868	5,613,336	5,383,713	6,082,523	6,121,295	5,497,112	5,624,363	6,051,210	5,997,389	5,642,430	5,196,358	6,089,566	5,985,828	5,523,037	5,386,742	5,990,693	123,311,885	65,044,026
Total Power (Net) [MWh]	462,039	4,968,837	4,918,951	4,813,027	5,053,355	5,049,871	5,106,225	4,541,418	5,142,305	5,114,677	5,177,957	5,518,346	887,239	4,805,476	5,528,108	5,661,651	5,158,248	5,167,231	5,537,520	5,633,142	5,177,835	4,948,204	5,615,317	5,622,015	5,073,743	5,164,376	5,589,304	5,504,930	5,204,743	4,765,824	5,622,376	5,485,440	5,094,710	4,928,499	5,530,839	113,553,795	60,019,981
Gross Capacity Factor [%]	99.67	87.27	86.19	84.51	88.3	88.25	89.37	79.52	89.71	90.08	91.37	97.62	93.23	84.83	96.92	100.12	90.64	91.53	97.24	99.67	91.07	87.16	98.47	99.4	89.15	91.14	98.5	96.92	92.23	83.78	99.09	97.14	89.72	87.31	97.43	90.54	94.57

Unit 1 - Commercial Operation in 2018



Month	Generated Power (Gross) [MWh]	Net Power [MWh]	Gross Capacity Factor [%]
January	515,163	472,329	98.64
February	464,488	425,724	98.48
March	478,885	439,003	91.73
April	495,337	455,147	97.91
May	23,124	21,133	4.40
June	428,382	390,619	84.22
July	493,408	450,230	93.87
August	495,982	452,090	94.36
September	484,547	442,585	95.29
October	509,511	466,789	96.81
November	490,090	448,666	96.8
December	506,816	464,173	97.04
<b>TOTAL</b>	<b>5,386,742</b>	<b>4,928,499</b>	<b>87.31</b>

Unit 2 - Commercial Operation in 2018



Month	Generated Power (Gross) [MWh]	Net Power [MWh]	Gross Capacity Factor [%]
January	518,704	479,703	99.45
February	471,717	436,316	100.1
March	501,670	463,751	96.34
April	505,511	467,891	99.81
May	516,767	477,571	98.89
June	492,255	453,191	97.27
July	509,888	469,589	97.44
August	501,498	461,048	95.95
September	432,506	398,487	85.49
October	516,363	476,886	99.01
November	503,577	465,373	99.67
December	520,137	481,024	99.78
<b>TOTAL</b>	<b>5,990,693</b>	<b>5,530,839</b>	<b>97.43</b>

- U1 - 25 martie, ora 9:18-27 martie ora 7:38 - declansare SOR#1 manual, la decizia DST, pentru reparare deficianta 1-5542-INV1C/VR1C (46.3 ore)
- U1 - 2 mai, ora 10:53 - 4 iunie ora 05:02 - Oprere planificata (786 ore)
- U1 - 23 iulie, ora 16:38 - 24 iulie 2018, ora 1:08 - declansare turbina datorita vibratiilor la lagarul 5 (8.5 ore, 12.5 ore FP)
- U1 - 23 august 2018 ora 16 -reducere putere reactor cu 5% pentru intretinere la 1-41230-HX2#2 (11 ore)
- U1 - 2 nov. 2018 ora 8:24 - reducere planificata putere reactor la 75% pentru lucrari de intretinere la 2-4313-TK92A, (23 ore)

- U2 - 21 ianuarie -reducere neplanificata de putere reactor la 73% pentru remediere defect CSDV1 (15 ore)
- U2 - 25 martie - reducere neplanificata de putere reactor la 60% pentru a opri pompa 2-4321-P02 datorita vibratiilor mari la lagar (17 ore)
- U2 - 29 martie 2018 ora 3:24 - 29 martie 2018 ora 20:31 - declansarea Turbogeneratorului din cauza intreruptorului principal CB01 (17.1 ore)
- U2 - 16 aug. ora 18:55 - 21:05 - Oprere din cauze externe; Reactor stepback pe pierderea liniei de evacuare energie in Statia 400kV (2.2 ore); Insularizare U2
- U2 - 5 sept. ora 15:00 - 9 sept. ora 01:48 - Oprere neplanificata pentru lucrari de reparatii la cap MID, fata A (82.8 ore)
- U2 - 15 oct. ora 13:15 - reducere neplanificata putere reactor la 75% pentru lucrari de intretinere la 2-4313-TK92A, (22 ore)

### Commissioning Station Statistics

	Unit 1 Since first connection to the grid until commercial (July 11, 1996 - December 2, 1996)	Unit 2 Since first connection to the grid until commercial (August 7, 2007 - November 1, 2007)
Total Generated Power (Gross) [MWh]	878,833	741,858
Total Power (Net) [MWh]	724,401	672,957

### Lifetime Station Statistics Since First Connection to the Grid

	Unit 1 Since first connection to the grid until the present (July 11, 1996 - Dec 2018)	Unit 2 Since first connection to the grid until the present (August 7, 2007 - Dec 2018)
Total Generated Power (Gross) [MWh]	124,190,718	65,785,884
Total Power (Net) [MWh]	114,278,196	60,692,938