

East Kentucky Power Cooperative
Generation Facility Ratings

Plant	Name Plate Ratings		Summer Rating		Winter Rating		Unit
Name	Turbine		Normal		Normal		Name
		(Gross)	(Gross)	(Net)	(Gross)	(Net)	
		MW	MW	MW	MW	MW	
Cooper		321	364	341	364	341	Cooper
Spurlock		1,178	1,511	1,346	1,511	1,346	Spurlock
Total Coal		1,499	1,875	1,687	1,875	1,687	Total Coal
LFGTE		17	17	16	17	16	LFGTE
Diesels		8	8	8	8	8	Diesels
Solar		8.5	8.5	8.5	8.5	8.5	Solar
	Summer	Winter					
	(Gross)	(Gross)	(Gross)	(Net)	(Gross)	(Net)	
	MW	MW	MW	MW	MW	MW	
Smith CTs	796	1,048	759	753	994	989	Smith CTs
Bluegrass CTs	507	573	507	501	573	567	Bluegrass CTs
Total CTs	1,303	1,621	1,266	1,254	1,567	1,556	Total CTs
Total EKPC	2,835	3,153	3,174	2,974	3,475	3,276	Total EKPC

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For additional information on rating criteria, please see:

[NERC Standard FAC-008 - Facility Ratings](#)

[NERC Standard FAC-009 - Establish and Communicate Facility Ratings](#)

[NERC Standard MOD-024 - Verification of Generator Gross and Net Real Power Capability](#)

[SERC Regional Criteria: Verification of Generator Real and Reactive Power Capability MOD-024 and MOD-025](#)

[PJM Manual 21 - Rules and Procedures for Determination of Generating Capacity](#)

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Unit	Name Plate Rating			Summer Rating			Winter Rating			Unit		
Name	Commercial	Turbine		Normal		Emergency	Normal		Emergency	Name		
	Operation					1 Hour			1 Hour			
		(Gross)		(Gross)	(Net)	P.F.	(Net)	(Gross)	(Net)	P.F.	(Net)	
		MW		MW	MW		MW	MW	MW		MW	
Cooper 1	2/9/1965	100		124	116	0.9275	116	124	116	0.9275	116	Cooper 1
Cooper 2	10/28/1969	221		240	225	0.9375	225	240	225	0.9375	225	Cooper 2
Cooper		321		364	341		341	364	341		341	Cooper
Spurlock 1	9/1/1977	340		344	300	0.96	300	344	300	0.96	300	Spurlock 1
Spurlock 2	3/2/1981	586		555	510	0.96	510	555	510	0.96	510	Spurlock 2
Gilbert 3	3/1/2005	294		306	268	0.85	268	306	268	0.85	268	Gilbert 3
Spurlock 4	4/1/2009	298		306	268	0.85	268	306	268	0.85	268	Spurlock 4
Spurlock		1,792		1,511	1,346		1,346	1,511	1,346		1,346	Spurlock
Total Coal		2,112.92		1,875	1,687		1,687	1,875	1,687		1,687	Total Coal
Unit	Name Plate Rating			Summer Rating			Winter Rating			Unit		
Name	Commercial	Turbine		Normal		Emergency	Normal		Emergency	Name		
	Operation	Summer	Winter			1 Hour			1 Hour			
		(Gross)	(Gross)	(Gross)	(Net)	(Net)	(Gross)	(Net)	(Net)			
		MW	MW	MW	MW	MW	MW	MW	MW			
Smith CT 1	3/1/1999	110	150	104	104	0.9	104	142	142	0.9	142	Smith CT 1
Smith CT 2	1/1/1999	110	150	104	104	0.9	104	142	142	0.9	142	Smith CT 2
Smith CT 3	4/1/1999	110	150	104	104	0.9	104	142	142	0.9	142	Smith CT 3
Smith CT 4	11/15/2001	74	98	73	73	0.9	73	93	93	0.9	93	Smith CT 4
Smith CT 5	11/15/2001	74	98	73	73	0.9	73	88	88	0.9	88	Smith CT 5
Smith CT 6	1/12/2005	74	98	73	73	0.9	73	88	88	0.9	88	Smith CT 6
Smith CT 7	1/12/2005	74	98	73	73	0.9	73	88	88	0.9	88	Smith CT 7
Smith CT 9	5/1/2010	85	103	77.5	75	0.85	75	105.5	103	0.85	103	Smith CT 9
Smith CT 10	5/1/2010	85	103	77.5	74	0.85	74	105.5	103	0.85	103	Smith CT 10
Smith CTs		796	1,048	759	753		753	994	989		989	Smith CTs
Bluegrass CT1	6/1/2002	169	191	169	167	0.85	167	191	189	0.85	189	Bluegrass CT1
Bluegrass CT2	6/1/2002	169	191	169	167	0.85	167	191	189	0.85	189	Bluegrass CT2
Bluegrass CT3	6/1/2002	169	191	169	167	0.85	167	191	189	0.85	189	Bluegrass CT3
Bluegrass CTs		507	573	507	501		501	573	567		567	Bluegrass CTs
Total CTs		1303	1621	1,266	1,254		1,254	1,567	1,556		1,556	Total CTs
Total EKPC		3,416	3,734	3,141	2,941		2,941	3,442	3,243		3,243	Total EKPC

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Unit Name	Under Frequency Step 1			Under Frequency Step 2			Over Frequency Step 1			Over Frequency Step 2			Unit Name
	Value	Delay	Unit	Value	Delay	Unit	Value	Delay	Unit	Value	Delay	Unit	
	Hz			Hz			Hz			Hz			
Dale 3	58.5	7	minutes	58.0	2	seconds	61.5	7	minutes	62.0	2	seconds	Dale 3
Dale 4	58.5	7	minutes	58.0	2	seconds	61.5	7	minutes	62.0	2	seconds	Dale 4
Cooper 1	58.5	7	minutes	58.0	1	seconds	61.5	7	minutes	62.0	1	seconds	Cooper 1
Cooper 2	58.5	7	minutes	58.0	1	seconds	61.5	7	minutes	62.0	1	seconds	Cooper 2
Spurlock 1	58	240	cycles				62	240	cycles				Spurlock 1
Spurlock 2	58	240	cycles				62	240	cycles				Spurlock 2
Gilbert 3	58.1	300	cycles				63.0	300					Gilbert 3
Spurlock 4	58.1	300	cycles				63.0	300					Spurlock 4
Smith CT 1	56.7	200	milliseconds										Smith CT 1
Smith CT 2	56.7	200	milliseconds										Smith CT 2
Smith CT 3	56.7	200	milliseconds										Smith CT 3
Smith CT 4	57.0	16	cycles										Smith CT 4
Smith CT 5	57.0	16	cycles										Smith CT 5
Smith CT 6	57.0	900	cycles										Smith CT 6
Smith CT 7	57.0	900	cycles										Smith CT 7
Smith CT 9	58.0	600	cycles				62	600	cycles				Smith CT 9
Smith CT 10	58.0	600	cycles				62	600	cycles				Smith CT 10
Bluegrass CT 1													Bluegrass CT 1
Bluegrass CT 2													Bluegrass CT 2
Bluegrass CT 3													Bluegrass CT 3

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Station - Unit	EIA	Commercial	Name Plate Ratings		Input	Summer Rating			Winter Rating		
	Plant	Operation	Engine	Generator	Energy	Normal		Emergency	Normal		Emergency
	Code	Date	(Gross)	(Gross)	LHV	Unit	Unit	1 Hour	Unit	Unit	1 Hour
			kW	kW	(Million) BTU/h	(Gross) kW	(Net) kW	(Net) kW	(Gross) kW	(Net) kW	(Net) kW
Cooperative Solar 1	60863	11/12/2017	NA	8,500	NA	8,500	8,500	8,500	8,500	8,500	8,500
Landfill Gas To Energy											
Bavarian 1	56277	9/22/2003	800	1,000	9.1	800	760	760	800	760	760
Bavarian 2	56277	9/22/2003	800	1,000	9.1	800	760	760	800	760	760
Bavarian 3	56277	9/22/2003	800	1,000	9.1	800	760	760	800	760	760
Bavarian 4	56277	9/22/2003	800	1,000	9.1	800	760	760	800	760	760
Bavarian 5	56277	10/1/2016	1,600	2,000	18.2	1,600	1,520	1,520	1,600	1,520	1,520
Bavarian			4,800	6,000		4,800	4,560	4,560	4,800	4,560	4,560
Green Valley 1	56278	9/9/2003	800	1,000	9.1	800	760	760	800	760	760
Green Valley 2	56278	9/9/2003	800	1,000	9.1	800	760	760	800	760	760
Green Valley 3	56278	9/9/2003	800	1,000	9.1	800	760	760	800	760	760
Green Valley			2,400	3,000		2,400	2,280	2,280	2,400	2,280	2,280
Laurel Ridge 1	56279	9/15/2003	800	1,000	9.1	800	760	760	800	760	760
Laurel Ridge 2	56279	9/15/2003	800	1,000	9.1	800	760	760	800	760	760
Laurel Ridge 3	56279	9/15/2003	800	1,000	9.1	800	760	760	800	760	760
Laurel Ridge 4	56279	9/15/2003	800	1,000	9.1	800	760	760	800	760	760
Laurel Ridge			3,200	4,000		3,200	3,040	3,040	3,200	3,040	3,040
Hardin County 1	56280	1/30/2006	800	1,000	9.1	800	760	760	800	760	760
Hardin County 2	56280	1/30/2006	800	1,000	9.1	800	760	760	800	760	760
Hardin County 3	56280	1/30/2006	800	1,000	9.1	800	760	760	800	760	760
Hardin County			2,400	3,000		2,400	2,280		2,400	2,280	2,280
Pendleton County 1	56327	2/1/2007	800	1,000	9.1	800	760	760	800	760	760
Pendleton County 2	56327	2/1/2007	800	1,000	9.1	800	760	760	800	760	760
Pendleton County 3	56327	2/1/2007	800	1,000	9.1	800	760	760	800	760	760
Pendleton County 4	56327	2/1/2007	800	1,000	9.1	800	760	760	800	760	760
Pendleton County			3,200	4,000		3,200	3,040	3,040	3,200	3,040	3,040
Glasgow 1	60137	12/1/2015	800	1,000	9.1	800	760	760	800	760	760
Glasgow			800	1,000		800	760	760	800	760	760
Total LFGTE			16,800	21,000		16,800	15,960	13,680	16,800	15,960	15,960
Diesel Generators											
Cagle 1		1/1/1998	1,600	2,000		1,750	1,750	1,750	1,750	1,750	1,750
Cagle 2		1/1/1998	1,600	2,000		1,750	1,750	1,750	1,750	1,750	1,750
Cagle			3,200	4,000		3,500	3,500	3,500	3,500	3,500	3,500
Cooper Emergency Backup 1	1/21/2014	1/1/2005	1,600	2,000		1,600	1,600	1,600	1,600	1,600	1,600
Cooper Emergency Backup			1,600	2,000		1,600	1,600	1,600	1,600	1,600	1,600
Smith Blackstart 1		1/1/2003	1,600	2,000		1,600	1,600	1,600	1,600	1,600	1,600
Smith Blackstart 2		1/1/2003	1,600	2,000		1,600	1,600	1,600	1,600	1,600	1,600
Smith Blackstart			3,200	4,000		3,200	3,200	3,200	3,200	3,200	3,200
Total Diesels			8,000	10,000		8,300	8,300	8,300	8,300	8,300	8,300
Total All Engines			24,800	31,000		25,100	24,260	21,980	25,100	24,260	24,260

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