

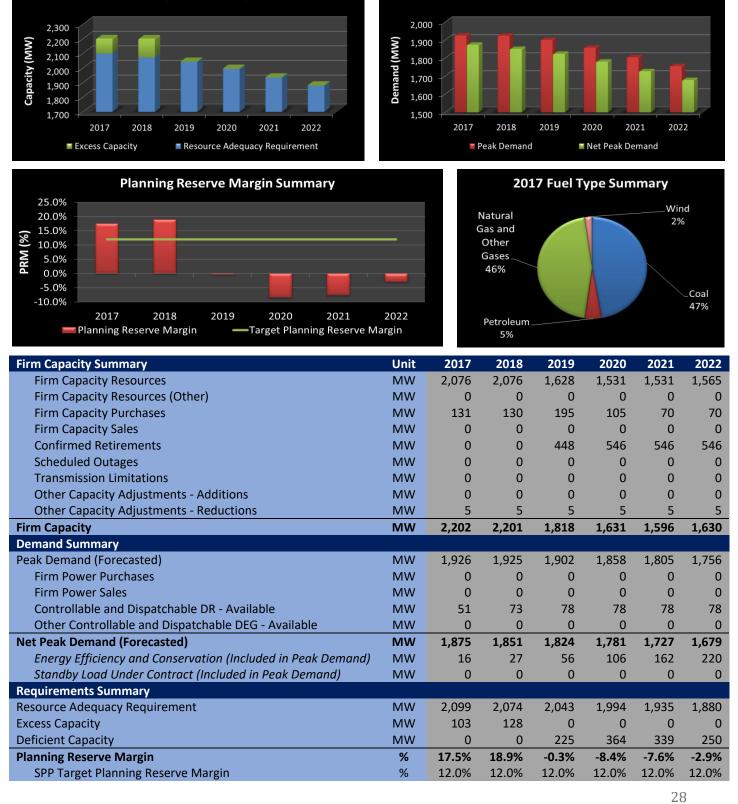
Published on June 19th, 2017

By Resource Adequacy Coordination

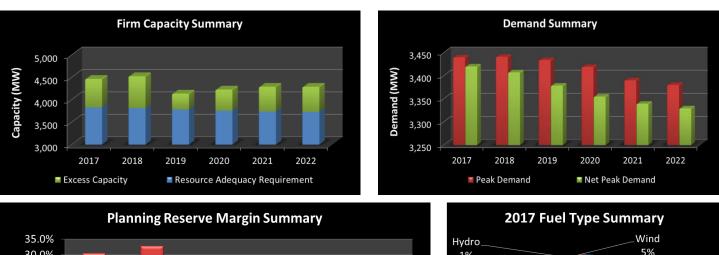
**Firm Capacity Summary** 

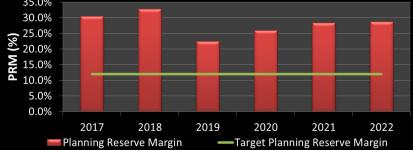
# GREATER MISSOURI OPERATIONS COMPANY (KCP&L)

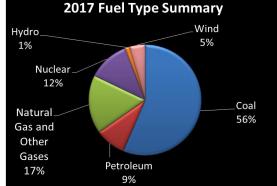
**Demand Summary** 



### **KANSAS CITY POWER & LIGHT**







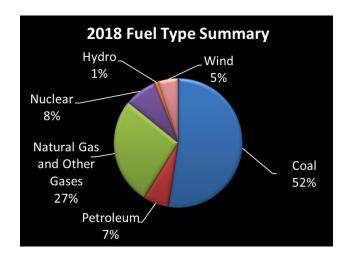
Firm Capacity Summary	Unit	2017	2018	2019	2020	2021	2022
Firm Capacity Resources	MW	4,344	4,344	4,010	4,010	4,010	4,010
Firm Capacity Resources (Other)	MW	0	0	0	0	0	0
Firm Capacity Purchases	MW	256	292	292	292	292	292
Firm Capacity Sales	MW	137	112	167	77	15	15
Confirmed Retirements	MW	0	0	334	334	334	334
Scheduled Outages	MW	0	0	0	0	0	0
Transmission Limitations	MW	0	0	0	0	0	0
Other Capacity Adjustments - Additions	MW	0	0	0	0	0	0
Other Capacity Adjustments - Reductions	MW	0	0	0	0	0	0
Firm Capacity	MW	4,463	4,524	4,135	4,225	4,287	4,287
Demand Summary							
Peak Demand (Forecasted)	MW	3,440	3,441	3,434	3,419	3,390	3,380
Firm Power Purchases	MW	0	0	0	0	0	0
Firm Power Sales	MW	0	0	0	0	0	0
Controllable and Dispatchable DR - Available	MW	20	34	55	64	51	51
Other Controllable and Dispatchable DEG - Available	MW	0	0	0	0	0	0
Net Peak Demand (Forecasted)	MW	3,420	3,407	3,379	3,355	3,339	3,329
Energy Efficiency and Conservation (Included in Peak Demand)	MW	18	35	54	75	112	141
Standby Load Under Contract (Included in Peak Demand)	MW	0	0	0	0	0	0
Requirements Summary							
Resource Adequacy Requirement	MW	3,831	3,816	3,784	3,757	3,740	3,729
Excess Capacity	MW	633	708	351	467	547	558
Deficient Capacity	MW	0	0	0	0	0	0
Planning Reserve Margin	%	30.5%	32.8%	22.4%	25.9%	28.4%	28.8%
SPP Target Planning Reserve Margin	%	12.0%	12.0%	12.0%	12.0%	12.0%	12.0%



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By SPP Resource Adequacy

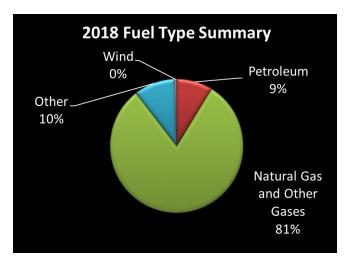
#### **KANSAS CITY POWER & LIGHT**



Firm Capacity Summary	Unit	2018
Firm Capacity Resources	MW	6,381
Firm Capacity Purchases	MW	391
Firm Capacity Sales	MW	52
Confirmed Retirements	MW	0
Scheduled Outages	MW	0
Transmission Limitations	MW	0
Other Capacity Adjustments - Additions	MW	0
Other Capacity Adjustments - Reductions	MW	0
Firm Capacity	MW	6,720
Demand Summary		
Peak Demand (Forecasted)	MW	5,483
Firm Power Purchases	MW	0
Firm Power Sales	MW	0
Controllable and Dispatchable DR	MW	239
Other Controllable and Dispatchable DEG	MW	0
Net Peak Demand (Forecasted)	MW	5,244
Requirements Summary		
Resource Adequacy Requirement	MW	5,874
Excess Capacity	MW	846
Deficient Capacity	MW	0
Planning Reserve Margin	%	28.1%
SPP Target Planning Reserve Margin	%	12.0%

### KANSAS MUNICIPAL ENERGY AGENCY – EMP1

Firm Capacity Summary	Unit	2018
Firm Capacity Resources	MW	82
Firm Capacity Purchases	MW	21
Firm Capacity Sales	MW	0
Confirmed Retirements	MW	0
Scheduled Outages	MW	0
Transmission Limitations	MW	0
Other Capacity Adjustments - Addition	MW	0
Other Capacity Adjustments - Reductions	MW	0
Firm Capacity	MW	103
Demand Summary		
Peak Demand (Forecasted)	MW	106
Firm Power Purchases	MW	38
Firm Power Sales	MW	0
Controllable and Dispatchable DR	MW	0
Other Controllable and Dispatchable DEG	MW	29
Net Peak Demand (Forecasted)	MW	39
Requirements Summary		
Resource Adequacy Requirement	MW	43
Excess Capacity	MW	59
Deficient Capacity	MW	0
Planning Reserve Margin	%	164.8%
SPP Target Planning Reserve Margin	%	12.0%



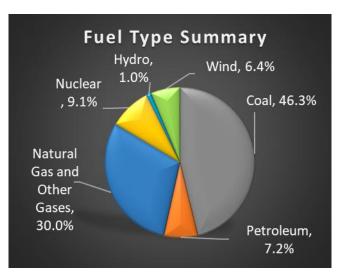


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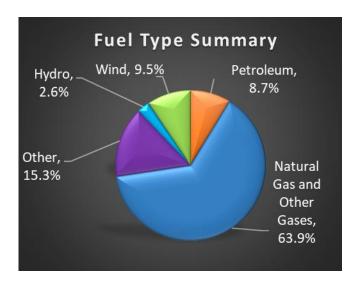
**SPP Resource Adequacy** 

### KANSAS CITY POWER AND LIGHT

		2010
Capacity Summary	Unit	2019
Capacity Resources	MW	5,641
Firm Capacity Purchases	MW	423
Firm Capacity Sales	MW	67
External Firm Power Purchases	MW	0
External Firm Power Sales	MW	0
Confirmed Retirements	MW	0
Total Capacity	MW	5,997
Demand Summary		
Forecasted Peak Demand	MW	5,408
Internal Firm Power Sales	MW	0
Internal Firm Power Purchases	MW	0
Controllable and Dispatchable DR	MW	235
Controllable and Dispatchable BTM Gen	MW	2
Net Peak Demand	MW	5,171
Requirements Summary		
Resource Adequacy Requirement	MW	5,792
Excess Capacity	MW	205
Deficient Capacity	MW	0
LRE planning reserve margin	%	15.97
Planning Reserve Margin	%	12.00



#### KANSAS MUNICIPAL ENERGY AGENCY – EMP1



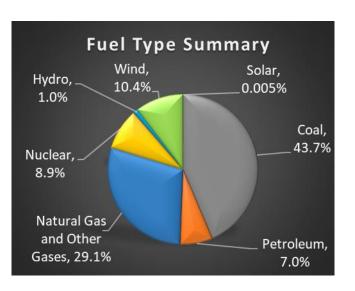
Capacity Summary	Unit	2019
Capacity Resources	MW	79
Firm Capacity Purchases	MW	6
Firm Capacity Sales	MW	19
External Firm Power Purchases	MW	2
External Firm Power Sales	MW	0
Confirmed Retirements	MW	0
Total Capacity	MW	68
Demand Summary		
Forecasted Peak Demand	MW	105
Internal Firm Power Sales	MW	0
Internal Firm Power Purchases	MW	36
Controllable and Dispatchable DR	MW	0
Controllable and Dispatchable BTM Gen	MW	27
Net Peak Demand	MW	42
Requirements Summary		
Resource Adequacy Requirement	MW	47
Excess Capacity	MW	21
Deficient Capacity	MW	0
LRE planning reserve margin	%	62.61
Planning Reserve Margin	%	12.00



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**SPP Resource Adequacy** 

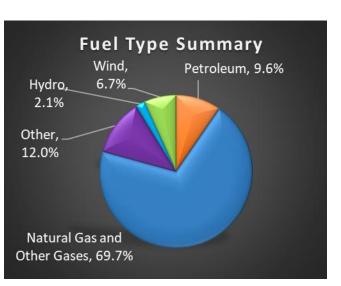
### KANSAS CITY POWER AND LIGHT



Capacity Summary	Unit	2020
Capacity Resources	MW	5,634
Firm Capacity Purchases	MW	686
Firm Capacity Sales	MW	67
External Firm Power Purchases	MW	0
External Firm Power Sales	MW	0
Confirmed Retirements	MW	97
Total Capacity	MW	6,155
Demand Summary		
Forecasted Peak Demand	MW	5,450
Internal Firm Power Sales	MW	0
Internal Firm Power Purchases	MW	0
Controllable and Dispatchable DR	MW	159
Controllable and Dispatchable BTM Gen	MW	0
Net Peak Demand	MW	5,291
Requirements Summary		
Resource Adequacy Requirement	MW	5,925
Excess Capacity	MW	230
Deficient Capacity	MW	0
LRE planning reserve margin	%	16.35
Planning Reserve Margin	%	12.00

#### KANSAS MUNICIPAL ENERGY AGENCY – EMP1

Capacity Summary	Unit	2020
Capacity Resources	MW	79
Firm Capacity Purchases	MW	6
Firm Capacity Sales	MW	0
External Firm Power Purchases	MW	2
External Firm Power Sales	MW	0
Confirmed Retirements	MW	0
Total Capacity	MW	87
Demand Summary		
Forecasted Peak Demand	MW	106
Internal Firm Power Sales	MW	0
Internal Firm Power Purchases	MW	36
Controllable and Dispatchable DR	MW	0
Controllable and Dispatchable BTM Gen	MW	28
Net Peak Demand	MW	41
Requirements Summary		
Resource Adequacy Requirement	MW	46
Excess Capacity	MW	40
Deficient Capacity	MW	0
LRE planning reserve margin	%	109.81
Planning Reserve Margin	%	12.00



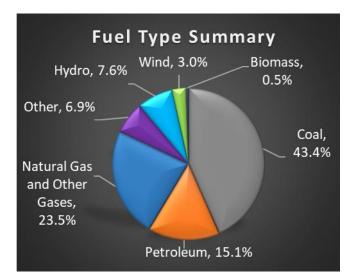


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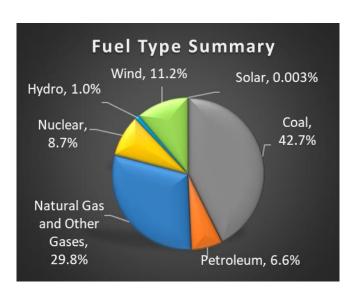
**SPP Resource Adequacy** 

### KANSAS CITY BOARD OF PUBLIC UTILITIES

Capacity Summary	Unit	2021
Capacity Resources	MW	518
Firm Capacity Purchases	MW	20
Firm Capacity Sales	MW	0
External Firm Power Purchases	MW	43
External Firm Power Sales	MW	5
Confirmed Retirements	MW	0
Total Capacity	MW	576
Demand Summary		
Forecasted Peak Demand	MW	456
Internal Firm Power Sales	MW	0
Internal Firm Power Purchases	MW	0
Controllable and Dispatchable DR	MW	0
Net Peak Demand	MW	456
Requirements Summary		
Resource Adequacy Requirement	MW	511
Excess Capacity	MW	65
Deficient Capacity	MW	0
LRE planning reserve margin	%	26.28
Planning Reserve Margin	%	12.00



### KANSAS CITY POWER AND LIGHT



Capacity Summary	Unit	2021
Capacity Resources	MW	5,615
Firm Capacity Purchases	MW	748
Firm Capacity Sales	MW	193
External Firm Power Purchases	MW	0
External Firm Power Sales	MW	0
Confirmed Retirements	MW	0
Total Capacity	MW	6,169
Demand Summary		
Forecasted Peak Demand	MW	5,444
Internal Firm Power Sales	MW	0
Internal Firm Power Purchases	MW	0
Controllable and Dispatchable DR	MW	181
Net Peak Demand	MW	5,263
Requirements Summary		
Resource Adequacy Requirement	MW	5,895
Excess Capacity	MW	274
Deficient Capacity	MW	0
LRE planning reserve margin	%	17.22
Planning Reserve Margin	%	12.00

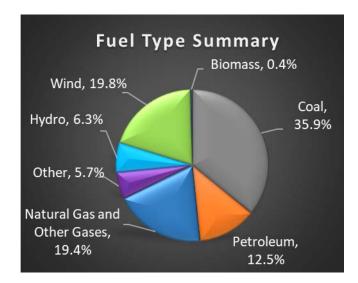


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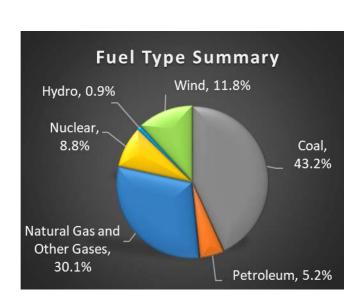
SPP Resource Adequacy

#### KANSAS CITY BOARD OF PUBLIC UTILITIES

Capacity Summary	Unit	2022
Capacity Resources	MW	518
Firm Capacity Purchases	MW	141
Firm Capacity Sales	MW	0
External Firm Power Purchases	MW	43
External Firm Power Sales	MW	5
Confirmed Retirements	MW	0
Total Capacity	MW	697
Demand Summary		
Forecasted Peak Demand	MW	459
Internal Firm Power Sales	MW	0
Internal Firm Power Purchases	MW	0
Controllable and Dispatchable DR	MW	0
Net Peak Demand	MW	459
Requirements Summary		
Resource Adequacy Requirement	MW	514
Excess Capacity	MW	183
Deficient Capacity	MW	0
LRE planning reserve margin	%	51.82
Planning Reserve Margin	%	12.00



#### **KANSAS CITY POWER & LIGHT**



Capacity Summary	Unit	2022
Capacity Resources	MW	5,522
Firm Capacity Purchases	MW	767
Firm Capacity Sales	MW	55
External Firm Power Purchases	MW	0
External Firm Power Sales	MW	0
Confirmed Retirements	MW	0
Total Capacity	MW	6,234
Demand Summary		
Forecasted Peak Demand	MW	5,389
Internal Firm Power Sales	MW	0
Internal Firm Power Purchases	MW	0
Controllable and Dispatchable DR	MW	0
Net Peak Demand	MW	5,389
Requirements Summary		
Resource Adequacy Requirement	MW	6,036
Excess Capacity	MW	198
Deficient Capacity	MW	0
LRE planning reserve margin	%	15.68
Planning Reserve Margin	%	12.00