



Kansas Electric Power Cooperative, Inc.



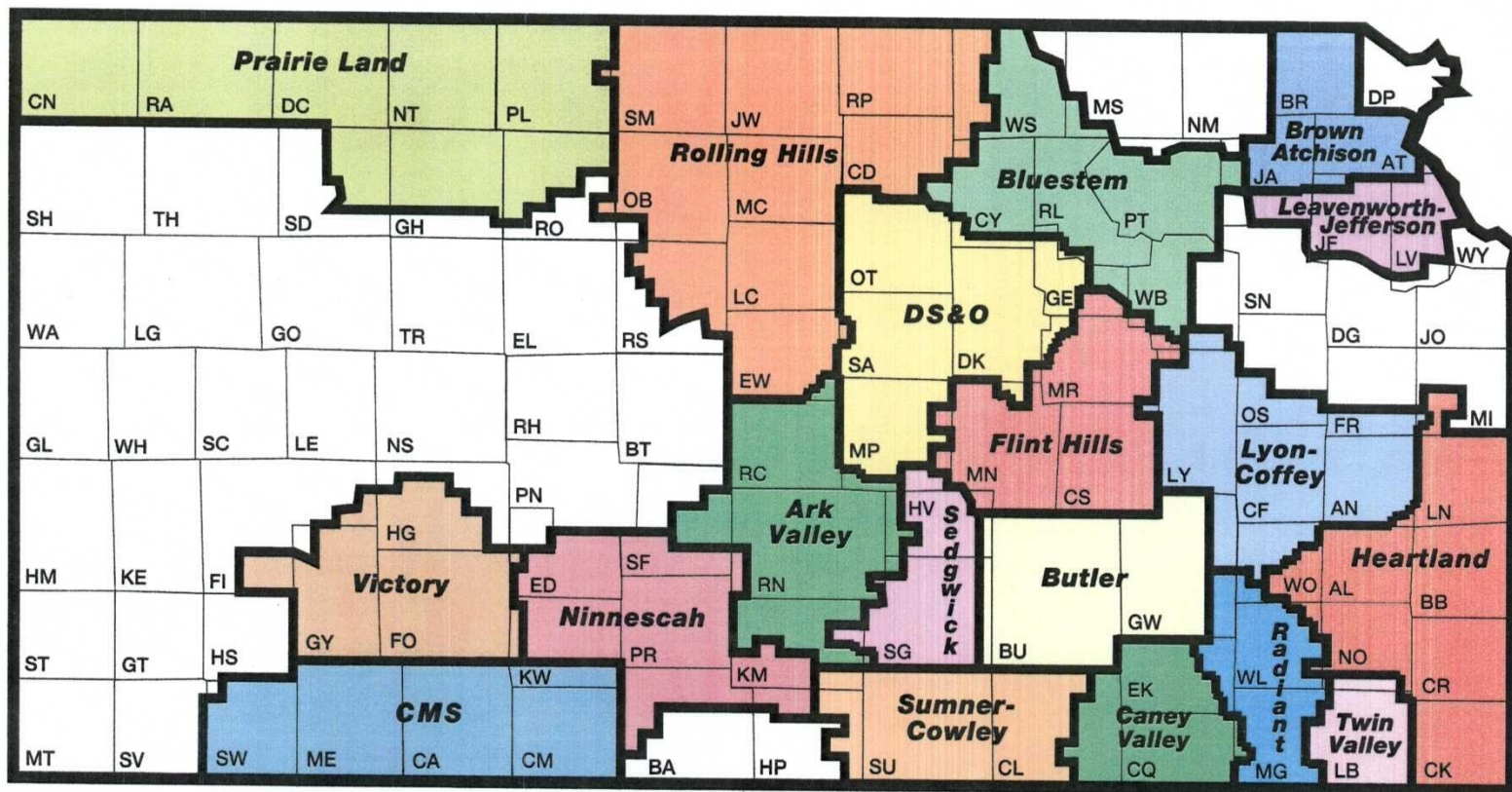


Overview

- KEPCo was incorporated in 1975 as not-for-profit, member-owned wholesale power supplier.
- KEPCo is owned by the 19 Member Electric Distribution Cooperatives it serves.
- Provide power supply for approximately 120,000 retail member meters, over 300,000 population in eastern two-thirds of Kansas.
- Corporate office located in Topeka, Kansas.
- KEPCo comprised of 23 employees.
- 2012 Peak Load: 452 MW.
- 2012 Energy Delivered: 2.1 million MW-hrs.
- 12% increase in demand and 15% increase in energy sales since 2007.



Member Service Area





KEPCo Power Supply

- Strategic Power Supply Goals

- Create long-term, reliable, economic power supply for members
- Avoid exposure to power market
- Reduce volatility
 - Long-term stable power supply strategy
- Own generation when prudent
- Purchase power when prudent using long-term contracts
 - Existing generation at cost-based rates
 - Spread reliability risk over many generating units using many types of fuel
- Cost effective incorporation of renewables
 - Access renewables through power purchase contracts
- Diversified and balanced Power Supply
 - Current portfolio minimizes greenhouse gas emissions
 - 40% of generation resources do not emit greenhouse gases (25% nuclear, 15% hydro)
 - Incorporate Demand Side Management technology in power supply planning process
 - Member Load Management Programs

Wolf Creek Nuclear Plant

- Located near Burlington, KS
- Nuclear reactor uranium fueled
- 1985 started commercial operation
- 1180 MW net output total plant
 - Plant up-rated in 2011. Additional uprate expected in 2013.
- KEPCo share 72 MW (6%)
- Initial 40 year operating license has been extended to 60 years (2045)
- Clean energy; no greenhouse gas emissions



Sharpe Generating Station

- Located near Burlington, KS.
- Installed in 2002.
- 20 MW total Capacity:
 - Caterpillar diesel engine generator sets.
 - Ten, 2 MW units.
- Used as peaking capacity for KEPCo.
- Also provides maintenance back-up for Wolf Creek emergency diesel generators.
- Fitted in 2012 with EPA-required emission control equipment.



Iatan 2

- Located near Weston, MO (north of Kansas City).
- High efficiency, supercritical pulverized coal-fired unit.
- Most efficient, low pollution coal unit in US.
- Commercial operation 12/2010.
- 890 MW net output total plant.
- 3.53% share or 30 MW.
- Provides approximately 11% of KEPCo's annual energy needs.



Burns & McDonnell

IATAN STATION
WESTON, MISSOURI



Hydro Power Allocations

(Clean energy, no greenhouse gas emissions)

- **Southwestern Power Administration:**
 - 100 MW Allocation.
 - 24 hydro projects totaling over 2,000 MW generating capacity.
 - Located in Missouri, Oklahoma, Arkansas and Texas.
 - KEPCo active participant in Southwestern Power Resources Association (SPRA).
- **Western Area Power Administration:**
 - 14 MW Allocation
 - 21 hydro projects totaling over 600 MW generating capacity.
 - Located in Colorado, Wyoming and Montana.
 - KEPCo active participant in Loveland Area Customers Association (LACA).





KEPCo Power Supply

RESOURCE	OWNERSHIP	FUEL	GEN. TYPE	MW	TERM
Wolf Creek	6%	N	Base	70	2045
Sharpe	100%	O	Peaking	20	2045
Iatan 2	3.5%	C	Base	30	2045
SWPA	Purchase	H	Intermediate	100	2031
WAPA	Purchase	H	Base	14	2024
Westar	Purchase	C/N/G/O/W	B/I/P	231	2045
Sunflower	Purchase	C/G/O/W	B/I/P	62	2018
Total				527	

N = Nuclear
C = Coal
G = Gas
O = Oil
H = Hydro
W = Wind

B = Base
I = Intermediate
P = Peaking



KEPCo Demand Side Management

- Load Management Program since early 1990's to reduce need for additional new generation.
- KEPCo operates real-time SCADA system to track loads and provide information to members.
- Each KEPCo member incented through rate structure to reduce demand during peak hours.
- KEPCo estimates that member total peak demand is reduced by 8% to 10% using Load Management (40 MW in 2011).



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Questions?

