



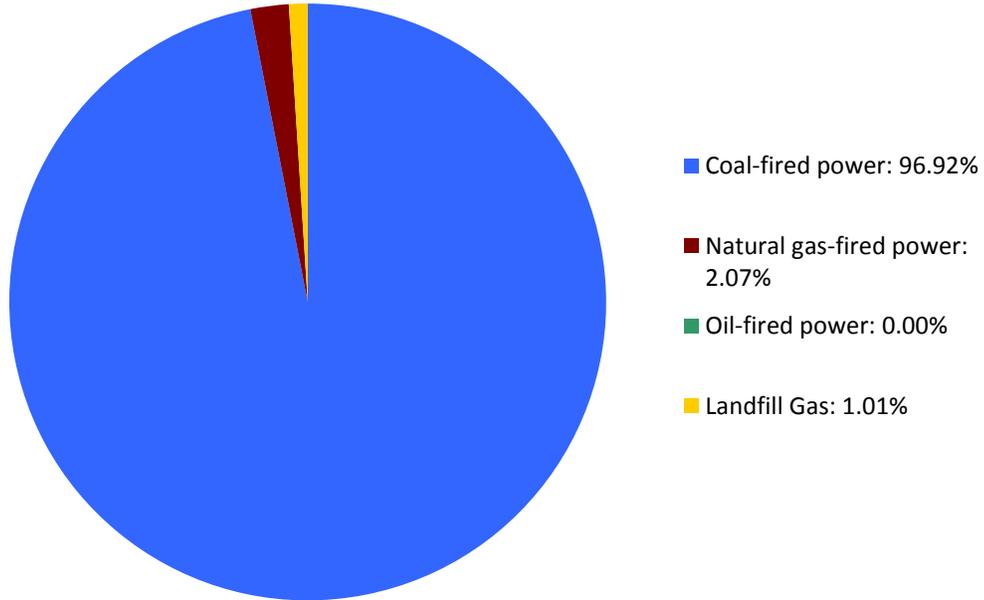
**City Utilities of Springfield
Utility-Owned Electric Generation and Emissions in 2009**

	Fuel Consumption, MMBTUs	Percent of Total		Net Electric Power Generated in 2009 (MWh)	Percent of Total	
Non-renewable sources						
Coal-fired power	26,342,972	97.80%		2,390,899	97.90%	
Natural gas-fired power	592,259	2.20%		51,108	2.09%	
Oil-fired power	978	0.00%		67	0.00%	
Nuclear power						
Other non-renewable power						
Non-renewable total	26,936,209	100.00%	99.01%	2,442,073	100.00%	98.99%
Renewable sources						
Hydroelectric Power						
Wind						
Waste and biomass						
Solar						
Geothermal						
Landfill Gas	268,568	100.00%		24,924	100.00%	
Renewable total	268,568	100.00%	0.99%	24,924	100.00%	1.01%
Grand total all sources	27,204,777		100.00%	2,466,997		100.00%

Fuel Type	Physical Units	Number of Units
Sub-Bituminous Coal	Short Tons	1,506,264
Natural Gas	Mcf	583,997
Distillate Fuel Oil	Barrels	168
Landfill Gas	Mcf	464,650



Net Generation by Fuel Type, 2009 for City Utilities of Springfield





Emissions from Electricity Generated in 2009: City Utilities of Springfield

Plant	Carbon Dioxide (CO2) (Tons)	Carbon Monoxide (CO) (Tons)	Ammonia (NH3) (Tons)	Nitrogen Oxides (NOx) (Tons)	Sulfur Dioxides (SO2) (Tons)
City Utilities of Springfield	2,628,596.96	1,211.16	11.88	2,260.39	7,563.05
James River Power Station	1,255,994.00	901.33	7.50	1,438.24	3,780.18
Main Street	0.00	0.02	NV	0.02	NV
McCartney	17,006.10	14.73	NV	23.38	0.09
Noble Hill Landfill	0.00	113.98	NV	24.78	2.52
Southwest Power Station	1,355,596.86	181.10	4.38	773.98	3,780.27

Plant	Volatile Organic Compounds (VOC) (Tons)	Course Particulate Matter (PM10 Total) (Tons)	Fine Particulate Matter (PM2.5 Total) (Tons)	Mercury (Hg) (LBS)
City Utilities of Springfield	46.40	710.29	234.64	127.00
James River Power Station	24.53	453.97	132.36	59.00
Main Street	NV	NV	NV	NV
McCartney	0.41	0.66	0.66	NV
Noble Hill Landfill	NV	6.44	6.44	NV

'NV' = Emissions value not available.

Note: The data provided includes only generation and emissions from power plants owned by the utility. It does not include generation or emissions from power purchased by the utility and distributed to its customers.



Pollution controls installed on plants operated by City Utilities of Springfield

SO2 Controls			
Plant	Control Equipment	Sorbent Type	Operational Efficiency
James River Power Station	No SO2 Controls Installed		
Main Street	No SO2 Controls Installed		
McCartney	No SO2 Controls Installed		
Noble Hill Landfill	No SO2 Controls Installed		
Southwest Power Station	No SO2 Controls Installed		
Southwest Power Station	No SO2 Controls Installed		

NOX Controls				
Plant	Device Type	Description	Capture Efficiency	Control Efficiency
James River Power Station	WATER INJECTION	WATER INJECTION	100.00%	64.00%
Main Street	No NOX Controls Installed			
McCartney	No NOX Controls Installed			
Noble Hill Landfill	No NOX Controls Installed			
Southwest Power Station	SCR (SELECTIVE CATALYTIC REDUCTION)	Selective Catalytic NOx Reduction	100.00%	80.00%
Southwest Power Station	WATER INJECTION	WATER INJECTION	100.00%	67.23%



Missouri Power plants owned and operated by City Utilities of Springfield in 2009

Plant	County	Primary Fuel	Capacity (MW)	Net Generation (MWh)
James River Power Station	Greene	Sub-Bituminous Coal	451	1,223,307
Main Street	Greene	Distillate Fuel Oil	15	0
McCartney	Greene	Natural Gas	118	24,735
Noble Hill Landfill	Greene	Landfill Gas	3	24,924
Southwest Power Station	Greene	Sub-Bituminous Coal	303	1,194,031

Data Sources

- Emissions Data: Missouri Department of Natural Resources, Air Pollution Control Program, Missouri Emissions Inventory System (MOEIS)
<http://www.dnr.mo.gov/env/apcp/moeis/emissionsreporting.htm>
- CO2 Emissions calculated by Missouri Department of Natural Resources, Division of Energy, from EIA Fuel Consumption Data
- Fuel Consumption and Generation Data: United States Energy Information Administration, Form 923, United States Department of Energy
http://www.eia.gov/cneaf/electricity/page/eia906_920.html