latan 2 Coal Plant (KCP&L)																										
Capacity (in MW):	850 Ti	me to build: 5 y	ears (8 years i	rom initia	l permitting o	ommencen	nent)																			
Installed Cost:	1,319,200,000 E	pected to be o	perational in 2	010; sour	ce of cost est	timate figur	es below:	public te	stimony.																	
Homes Powered:	700,000																									
Assumed kWh per home per month:	753 As	sumes 85% av	vailability of coa	al plant																						
Change in residential electric rates:	17.5% A	erage of 15-20	)% range estim	ated by K	CP&L (goes	into effect	2009) + a	fuel adju	istment d	harge																
Fuel Adjustement charge impact to electric rates:	2.0% G	oes into effect i	n 2015																							
Cost per MW	\$1,552,000																							•		
Cost per MW (in Millions)	\$1.6																									
Average Nationwide Residential electric bill in 2001	\$104	2001	2002	200	3 20	04 2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
Average annual increase in electric rates (without wind)	2.0%	\$ 10	04 \$ 106	\$	108 \$ 1	110 <b>\$ 1</b> 13	\$ 115	\$ 117	\$ 119	\$ 122	\$ 124	\$ 127	\$ 129	\$ 132	\$ 135	\$ 137	\$ 140	\$ 143	\$ 146	\$ 149	\$ 152	\$ 155	\$ 158	<b>\$</b> 161	\$ 164	\$ 167
Average Nationwide Residential electric bill in 2010	\$124																									
						2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
Electric Bill impact to KC area customers:	•					\$ 113	\$ 115	\$ 117	\$ 119	\$ 143	\$ 146	\$ 149	\$ 152	\$ 155	\$ 158	<b>\$ 1</b> 64	\$ 171	<b>\$ 1</b> 78	\$ 185	\$ 192	\$ 200	\$ 208	\$ 216	\$ 225	\$ 234	\$ 243
										17.5%	1					2.0%	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%
Wind Farm																										
Capacity Factor assumed:	43%																									
Homes Powered:	700,000																									
kWh per month per home needed:	753																									
kWh per year needed:	6,329,100,000																									
MWh per year needed:	6,329,100																									
Size of Wind Farm needed (in MW):	1,680 Ti	ne to build: 1 y	ear (2 years fro	om initial <sub>l</sub>	permitting co	mmenceme	ent); assu	mes it is	online by	2006																
Cost per MW of Wind Farm (in Millions):	\$1.0	\$0.6	Million per	MW less t	than latan 2																					
Installed Cost:	\$1,680,232,558																									
Additional cost of Wind versus latan 2:	(\$361,032,558)																									
Average annual increase in electric rates (with wind):		nd included in	the generation	portfolio (	of a utility or	region acts	as a stro	ng ancho	r to rising	g fossil fu	el based	energy o	osts													
Change in residential electric rates:	0%																									
Fuel Adjustement charge impact to electric rates:	0%																									
Electric Bill impact to KC area customers:						2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
Difference (Wind vs. latan 2) per month to KC area customers:		Avg per Y	r			\$ 113	\$ 114	\$ 115	\$ 116	\$ 117	\$ 118	\$ 119	\$ 121	\$ 122	\$ 123	\$ 124	\$ 126	\$ 127	\$ 128	\$ 129	\$ 131	\$ 132	\$ 133	\$ 135	<b>\$</b> 136	\$ 137
Total Monthly change for avg KC area customer from 2005 thru 2025:	(\$968)	(\$48.41)				\$0	(\$1	) (\$2)	(\$3	(\$26)	(\$28)	(\$29)	(\$31	) (\$33)	) (\$35)	(\$40)	(\$45)	(\$51)	(\$57)	(\$63	(\$69)	(\$76)	(\$83)	(\$90)	(\$98)	(\$106)
Annual change for avg KC area customer from 2005 thru 2025:	(\$11,619)	(\$580.94)										•														
Total cost of increased energy bills to KC area customers due to latan2	\$8,133,173,903																									
Healthcare costs per KCPL customer that would be avoided	\$1,485,555,556												\$ 37	\$ 37	\$ 37	\$ 37	\$ 37	\$ 37	\$ 37	\$ 37	\$ 37	\$ 37	\$ 37	\$ 37	\$ 37	\$ 37
Total cost of latan 2 to ALL KC area customer by 2025:	\$9,257,696,900 Inc	ludes the incre	eased rates pai	d by all cu	ustomers eve	ery month th	ru 2025,	less the l	higher ini	tial cost o	of the win	d farm.														

## Notes:

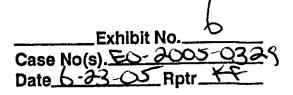
Transmission costs may be slightly higher for wind than the estimated transmission upgrades required by KCPL for coal, but most of these costs are absorbed in the \$1Million per MW figure for wind (already included).

"There are 1,237 heart attacks; 94 lung cancer deaths; 16,000 asthma attacks; all each year in our state, all attributed to these dirty power plants," said Charles E. Gillam of the Sustainable Sanctuary Coalition of the Greater Kansas City Area

"You have letters from the American Lung Association. You know the terrible results of permanent brain damage by methylmercury toxicity," Gillam said. "This poison affects over one half a million babies a year in our country. Coal-burning power plants are the major contributor."

	IVIVV	Cost
Total	850	1,319,200,000
KCPL Owned	500	776,000,000
	58.8%	58.8%







## Total Nationwide estimated Health costs of burning coal & fossil fuels

Percent of national costs borne by the KC metro area

Number of coal plants in the KC Metro area

Health costs per coal plant

Health costs per person

Environmental Pollution (mercury, lead, cadmium, etc.) Asthma Skin Cancer from Ozone hole depletion Chronic obstructive pulmonary disease (COPD)	Per Year Source  \$ 1,100,000,000,000 \$ 55,000,000,000 \$ 55,000,000,000 \$ 10,000,000
Cost of premature deaths Estimated Cost of future litigation to be borne by utilities	Impossible to quantify \$ 500,000,000 \$ 25,000,000
U.S. Population Kansas City Metro area population	300,000,000 2,000,000 0,67%

In the summer of 2004, MSNBC and other media outlets reported a groundbreaking study that was released linking power plant pollution to over 24,000 deaths per year. Americans are dying prematurely due to energy industry pollution at a rate of at least 65 per day from asthma attacks, heart attacks, lung disease, and upper respiratory failure. It is impossible to assign a cost to so many of our neighbors and countrymen dying before their time.

13,370,000,000 \$

1,485,555,556 \$

743 \$

At least eight (8) states are now suing power companies to force them to clean up air emissions. The attorneys general for eight northeastern states and New York City filed a lawsuit in New York state court in 2004 to reduce power plant pollution. They are trying to pressure five large power producers — American Electric Power Company, Southern Company, Xcel Energy Inc., Cinergy Corporation and the federal Tennessee Valley Authority — to clean up their emissions and help curb global warming. The plaintiffs claim those power producers own 174 fossil fuel-burning power plants that produce 646 million tons of carbon dioxide annually, which is about 10 percent of the nation's total. The attorneys general claim greenhouse gases like carbon dioxide could have catastrophic effects, including increased asthma and heat-related illness, depletion of drinking water supplies, a decline in fisheries and erosion of infrastructure. Marc Violette, a spokesman for New York Attorney General Eliot Spitzer, declined to comment Tuesday on details but said the lawsuit would, "for the first time, put global warming on the litigation map. This is a precedent-setting, first-of-its-kind lawsuit," he said. Clearly this lawsuit is the first of what could mimic the tobacco industry litigation