San Antonio Could Keep the Lights On with Efficiency, Renewables and Natural Gas for Less Than $2.6 -5.2 Billion the Nuclear plant will cost!

Clean Power & Energy Efficiency means Green *Jobs in San Antonio Rather than Bay City and Japan*

Implement Energy Efficiency measures across all sectors, including public buildings, homes and businesses

Build more Renewable Power: large and small scale wind, solar, and geothermal

CPS Energy's estimates for nuclear plants are too low and estimates for efficiency and renewables are too high

CPS Energy is asking San Antonians to pay more per month over the next 10 years to cover the upfront costs of between 540 and 1080 MWs of electricity from two proposed reactors at the South Texas Project. They are basing their estimate on spending between 20 and 40% of a total cost of $13 billion for the overnight costs of the proposed nuclear plant. Experts throughout the U.S. believe that the cost will be significantly higher, and could be at least twice that figure.

In addition, in justifying its energy plan before City Council and San Antonio citizens, CPS Energy has provided both construction costs and electricity delivery costs that are too low for nuclear and too high for other resources. As an example, Austin Energy recently hired an energy consultant PACE to model 15 different energy scenarios with significant cost differences to those used by CPS Energy. These independent numbers suggest CPS Energy has been underselling efficiency, gas and renewables as viable options and overselling a risky nuclear plant that will lock in high rates for San Antonio for 60 years. Moreover, CPS Energy estimated the cost for energy efficiency two to three times more than Austin Energy's estimates.

When Austin Energy was given the same choice as CPS Energy to jointly invest in the new proposed nuclear plant, they hired a consultant who advised them against the deal because they found that an option to include new nuclear power was the most costly and risky of all the options they modeled. .

Last time the nuclear plant was 6 years late and

8 times over budget

	Resource	Capacity	Capacity Factor Assumed	Capacity with Assumed Capacity Factor	Cost to CPS Energy
1.	Additional Efficiency/DSM	200 MW	25%	50 MW	$100 million
2.	Advanced Building Standards	80 MW	100%	80 MW	None
3.	Appliance Standards	223 MW	100%	223 MW	None
4.	Onsite Solar	500 MW	20%	100 MW	$210 million
5.	Utility-Scale Solar	500 MW	41 %	205 MW	$1 to 2 billion
6.	Wind	500 MW	34%	170 MW	$1 billion
7.	Wind with Storage	200 MW	46%	92 MW	$550 million
8.	Geothermal	100 MW	95%	95 MW	$400 million
9.	Biomass	100 MW	85%	85 MW	$285 million
10.	CHP/Co-Gen	150 MW	50%	75 MW	$375 million
11.	Combined Cycle Natural Gas Plant	200 MW	70%	140 MW	$160 million
	Total	**2,753 MW**		**1, 315 MW**	**$4.1 to $5.1 billion**
	Proposed Nuclear Plant	**1080 MW* (540 MW)**	**85%**	**918 MW* (459 MW)**	**$5.2 billion**

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What Could You Do with $2.6 billion?

Houston buys solar with natural gas backup and it only costs 8.2 Cents per kilowatt hour! –Yet the Nuke will cost 8.5 cents per KWh !

San Antonio does not actually need 1080 MW – 40 percent of the two nuclear plants of nuclear power in 2020. In fact, CPS Energy is now proposing to sell half of that power to other utilities. If they need 540 MW of power by 2020, they could get it for less than $2.6 billion, In fact, an analysis found that utilizing cost estimates provided by the consultant hired by Austin Energy, CPS Energy could build the equivalent of over 1,425 MW of total energy capacity, and 611 MWs of guaranteed electricity for less than $2.6 billion.

Among the measures that could more cheaply replace the need for any new nuclear power by 2020 include:

- A more aggressive efficiency program than the 771 MW of energy efficiency they are estimating to reach 1,000 MWs by 2020;
- Incorporating the 80 MWs in energy efficiency they will obtain from the City's advanced building codes;
- Fulfilling the Mission Verde goals of a robust on-site solar program of 250 MWs to lower energy demand and produce power locally;
- Greater investments in wind energy, including wind with storage;
- A significant investment in large-scale concentrated solar plants with energy storage;
- Taking advantage of geothermal renewable energy in South Texas;
- Investing in an additional efficient combined cycle natural gas plant;
- Investing in industrial and institutional combined heat and power facilities;
- Investing in a medium-scale biomass facility;
- A more aggressive low-interest loan program for homeowners to make their homes more energy efficient and add solar water heaters and panels;
- Improving energy efficiency services to those San Antonians least able to afford increased rates to make sure bill impacts stay low;
- Utilizing the millions of dollars available in stimulus funds to promote energy efficiency and renewable power in San Antonio