** Straw Proposal - Energy/Environment Strategy List **

Existing	g Buildi	ings, New Buildings (plus major renovations)	
1.	%	Improvement of Energy Efficiency of% of New Commercial , Institutional, and	
	Residential Buildings by		
	%	Improvement of Energy Efficiency of% of Existing Commercial, Institutional, and	
	Reside	ential Buildings by	
	a.	Adopt Architecture 2030 goal	
		i. All new buildings by 2030 are net zero	
		ii. By 2030, existing buildings 30% more efficient compared to 2010 base	
	b.	% of jurisdictions adopt IgCC or equivalent building code/energy performance standard	
	c.	Tighten new building standards and incentivize net zero, living building challenge, etc.	
	d.	Net Zero Commercial Buildings:% of new construction by	
	e.	Net Zero Building Incentives/Goals	
	f.	Ecodistricts	
	g.	% of jurisdictions implement commercial building benchmarking requirements	
	h.	90% of jurisdictions disclose energy performance of all government buildings	
	i.	Financing initiatives (green bank, revolving funds, credit enhancement)	
		i% of jurisdictions implement a PACE Financing program	
	j.	Ramp up existing building retrofits (require that retrofits over meet energy	
		performance standard)	
	k.	% of jurisdictions adopt energy efficiency goals for their facilities/operations (e.g., Better	
		Buildings Challenge – 20%)	
	1.	existing buildings upgraded using energy performance savings contracts or PACE	
	m.	Reduce emissions from heating and cooling systems	
		i. Convert % of heating systems to lower emitting technology (fuel switch and	
		efficiency increases)	
		ii new geothermal systems installed by	
	n.	Implement building retro-commissioning	
		Energy efficient appliances, HVAC systems	
	_	Green leasing	
	q.	Green purchasing	
	r.	Energy education initiatives/programs to address behavior and promote conservation	
		i. Community energy challenges	
	s.	Encourage/incentivize new energy efficiency program ideas, such as in-home displays linked	
		with smart meters, dynamic/TOU pricing, disaggregation by appliance	

Public and Private Built Infrastructure

- 1. _____ % reduction in energy consumption by improving efficiency of public and private infrastructure
 - a. Increase efficiency of outdoor lighting (convert street lights and other outdoor lights to LED)
 - b. Energy Grid 2.0 explore possibilities for improved grid management to increase efficiency, customer participation and demand flexibility with state regulators, PJM, utilities.
 - c. Solar + storage for critical facilities / low emissions public purpose microgrids
 - d. Urban heat island reduction tree planting, cool roofs, cool pavements, green streets

2.	Transit and highway agencies, and airports achieve % efficiency improvement by		
	a. Replace all outdoor, tunnel, and station lighting with high efficiency products		
	b. Install wayside storage to harvest braking power at% of possible locations		
3.	All water and wastewater utilities cover 30% of native load using on-site generation		
	a. Solar by		
	b. Biogas CHP		
	c. Fuel cells		
4.	Increase alternative energy generation in all industrial enterprises, including drinking water & waste		
	water utilities		
	a. Water utilities deploy renewable systems to power% of water pumping		
	b. Install renewable energy generation (hydro turbines) inside water pipes.		
5.	Water utilities reduce energy consumption% by		
	a. Water utilities deploy waste heat recovery in sewer system		
	b. Decrease the leakage rate of the water distribution system		
	c. Increase the efficiency of water pumping by%		
Efficie	ncy of Energy Generation (including transmission/distribution (T&D)		
1.	% reduction in emissions from energy generation, transmission, and distribution.		
2.	Full implementation of the federal Clean Power Plan		
	a. Increase efficiency of power plants		
	b. Decrease the emission rate of the existing power generation sector		
	i. Switch to cleaner fuels		
	ii. Phase out coal use at the local coal plants by 2030		
	iii. Invest in expanding natural gas supply infrastructure to existing plants		
	iv. Existing nuclear plants near the region install additional units		
	v. Increasing the on-site renewable generation		
	c. Increase renewable purchases		
3.	Increase the efficiency of the generation and T&D system by%		
4.	Decrease the emissions rate of the natural gas transmission and distribution system		
	a. Reduce methane leaks from natural gas pipelines. Achieve % reduction by		
5.	Increase deployment of clean high efficiency CHP by by		
	a. Install new District Energy Systems to serve load		
	b. Invest in expanding natural gas supply infrastructure to serve new plants		
	c. Invest in microgrids		
6.	Increase Renewable Portfolio Standards (RPSs) to		
7.	Increase Green Power Purchase to		
8.	# of commercial and residential accounts switch to 100% green power by		
	Increase Solar PV to installed systems or total MW by		
	. EV charging infrastructure connected to solar, and V2G		
	Incentives for residential solar + batteries/EVs		
	Increase Solar Thermal to		
	a. Encourage Thermal RECS (TRECs)		
13	Increase deployment of fuel cells to serve% of		
	Explore viability of carbon sequestration at coal plants in the region		