

# Survey Results of DPU Environmental Goals

Los Alamos Department of Public Utilities  
Presentation to the Board of Public Utilities  
January 20, 2021

# Overview

- Survey of DPU environmental goals
- Results (Support/Opposition)
- Citizen Committee conservation initiatives
- Conservation Plan

# Survey of DPU environmental goals

- DPU tasked to survey community on the support/opposition of environmental goals adopted by BPU in Oct. 2020
- DPU hired Triton Polling & Research to conduct survey
- Survey conducted Dec. 14 - 18
- Sampled 515 citizens in Los Alamos County
- Method: Live survey via landlines & cell phones; online via email.
  - Phone: 481 | Email: 34
- Margin of error: 95 percent confidence level (+/- 4.3 percent)

# Environmental goals

Goals adopted by the BPU on October 21, 2020

## FOCUS AREA - ENVIRONMENTAL SUSTAINABILITY

### GOAL - 5.0 Achieve environmental sustainability.

● ● ● ● ● ● ●	7	5.1 OBJECTIVE - ELECTRIC (EP & ED) Be a carbon neutral electric provider by 2040.
● ● ● ● ●	4	5.2 OBJECTIVE - Electric efficiency is promoted through targeted electric conservation programs. Increase local solar peak production to 6 MW by 2040. (This is 30% of local solar produced based on LAC peak load of 18 MW)
●	1	5.3 OBJECTIVE - WATER (DW) – Reduce potable water use by 12% per capita per day by 2030 using a 2020 calendar year-end baseline.
● ● ● ● ● ● ●	5	5.4 OBJECTIVE - GAS – Reduce natural gas usage by 5% per capita per heating degree day by 2030 using a 2020 calendar year-end baseline and support elimination of natural gas usage by 2070.
● ●	2	5.5 OBJECTIVE - SEWER (WT) – Provide <u>Cclass 1A</u> effluent water in LAC. <del>is provided in White Rock.</del>

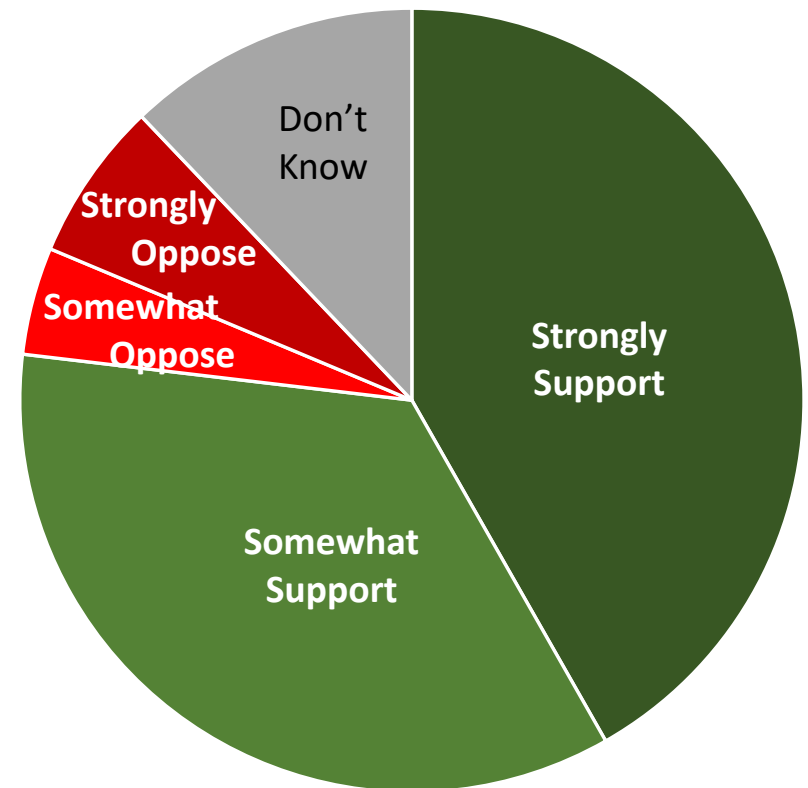
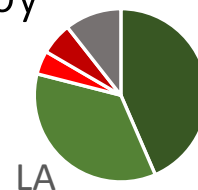
# Survey Questions

1. **Do you support or oppose** the Los Alamos Dept of Public Utilities' goal to be a carbon neutral electric provider by 2040?
2. Currently Los Alamos **has approximately 2 megawatts of local solar**. **Do you support or oppose** the Los Alamos Dept of Public Utilities' goal to increase local solar (such as roof top solar panels) to 6 megawatts by 2040?
3. **Do you support or oppose** the Los Alamos Dept of Public Utilities' goal to reduce today's drinking water use by 12 percent by 2030?
4. **Do you support or oppose** the Los Alamos Dept of Public Utilities' goal to reduce today's natural gas use by 5 percent by 2030?
5. **Do you support or oppose** the Los Alamos Dept of Public Utilities' goal to eliminate **natural gas usage** by 2070 (requiring all energy use be from carbon neutral electricity)?
6. **Do you support or oppose** the Los Alamos Dept of Public Utilities' goal to improve the reclaimed wastewater that is used to irrigate county and school turf so that it is the highest quality possible for unrestricted urban uses?

# SURVEY RESULTS

Q1. Support/oppose DPU goal to be a carbon-neutral electric provider by 2040?

	<u>%Support</u>	<u>%Oppose</u>
Total	76.9	11.0
LA	79.0	10.4
WR	72.0	12.3

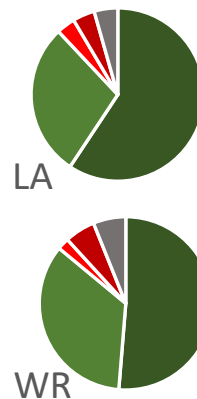


TOTAL RESPONSES

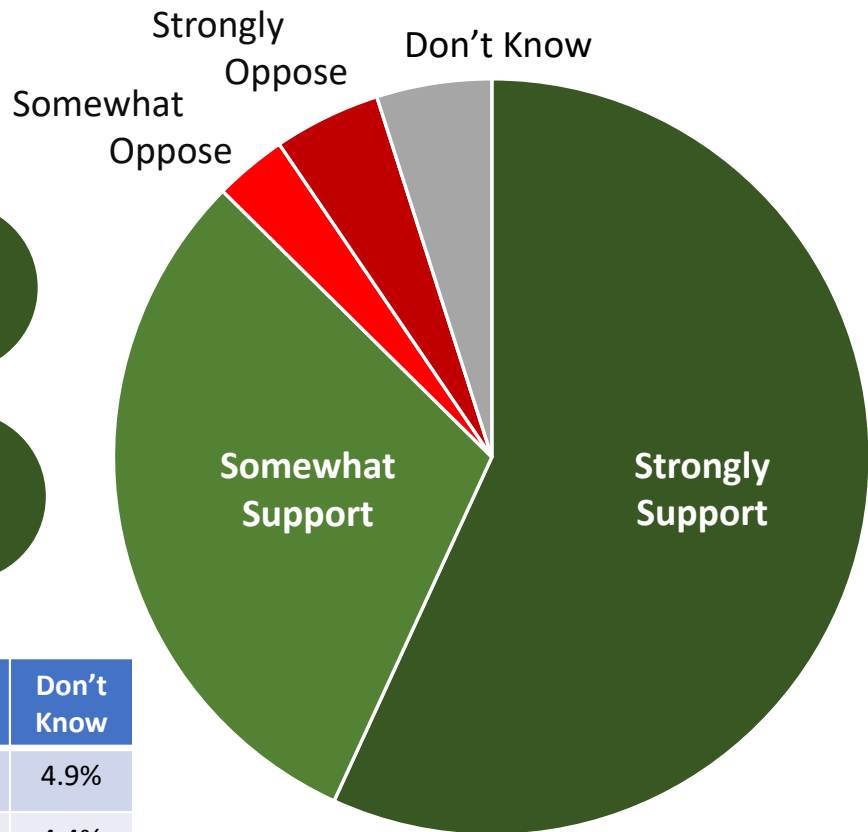
	Total Responses	Strongly Support	Somewhat Support	Somewhat Oppose	Strongly Oppose	Don't Know
Total	515	41.8%	35.1%	4.4%	6.6%	12.1%
LA	357	43.5%	35.5%	4.4%	6.0%	10.6%
WR	158	37.7%	34.3%	4.5%	7.8%	15.7%

Q2. Currently DPU has ~2 MW of local solar. Support/oppose DPU goal to increase local solar to 6 MW by 2040?

	<u>%Support</u>	<u>%Oppose</u>
Total	87.4	7.7
LA	88.0	7.6
WR	86.0	7.9



	Total Responses	Strongly Support	Somewhat Support	Somewhat Oppose	Strongly Oppose	Don't Know
Total	515	56.8%	30.6%	3.1%	4.6%	4.9%
LA	357	59.3%	28.7%	3.5%	4.1%	4.4%
WR	158	51.3%	34.7%	2.2%	5.7%	6.1%

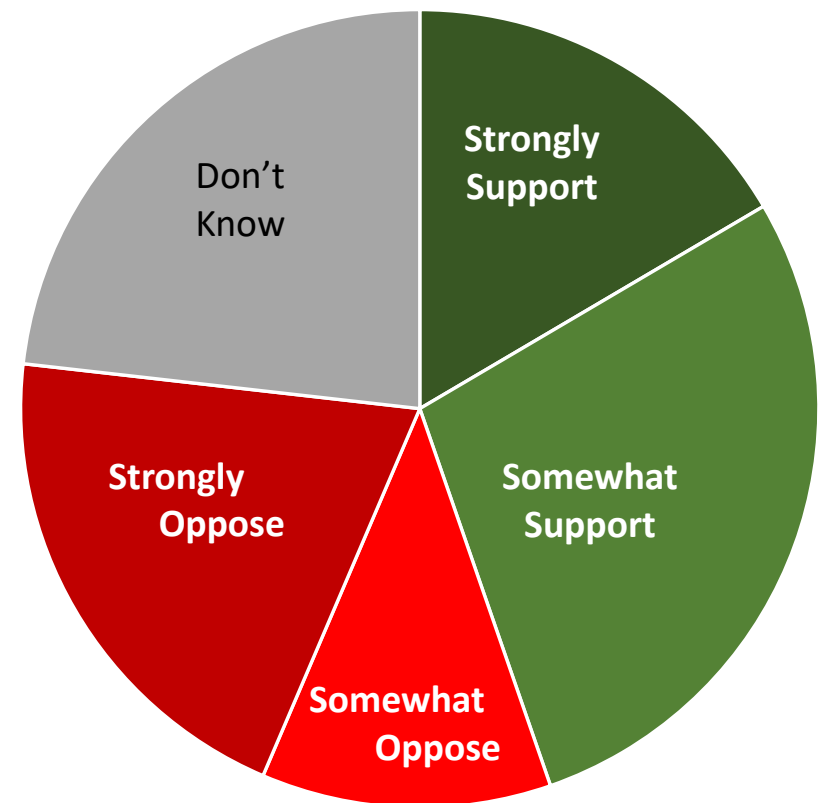
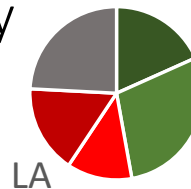


TOTAL RESPONSES



Q3. Support/oppose the DPU goal to reduce today's drinking water use by 12 percent by 2030?

	<u>%Support</u>	<u>%Oppose</u>
Total	44.7	32.1
LA	47.2	28.7
WR	39.1	40.0



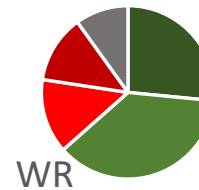
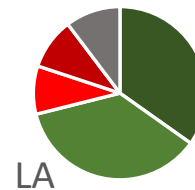
TOTAL RESPONSES

	Total Responses	Strongly Support	Somewhat Support	Somewhat Oppose	Strongly Oppose	Don't Know
Total	515	16.5%	28.2%	11.7%	20.4%	23.2%
LA	357	18.3%	28.9%	12.2%	16.5%	24.2%
WR	158	12.6%	26.5%	10.7%	29.3%	20.9%

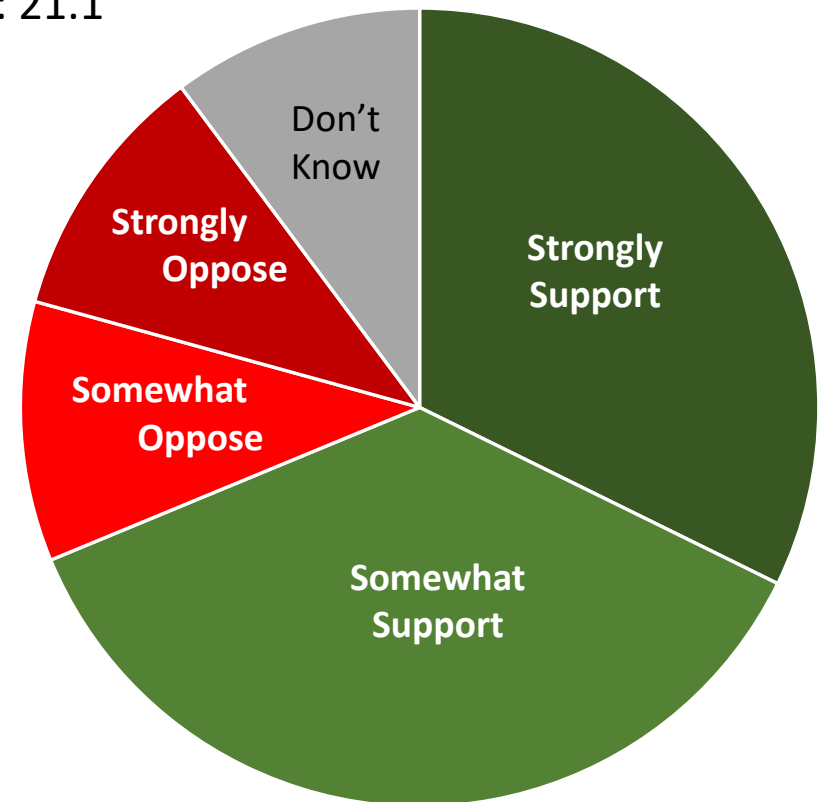
Q4. Support/oppose DPU goal to reduce today's natural gas use by 5 percent by 2030?

- Support %: 68.8
- Oppose %: 21.1

	<u>%Support</u>	<u>%Oppose</u>
Total	68.8	21.1
LA	71.1	18.6
WR	63.4	26.6



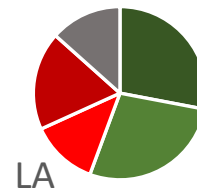
	Total Responses	Strongly Support	Somewhat Support	Somewhat Oppose	Strongly Oppose	Don't Know
Total	515	32.3%	36.5%	10.5%	10.5%	10.2%
LA	357	34.8%	36.3%	9.0%	9.6%	10.3%
WR	158	26.5%	36.9%	13.9%	12.7%	9.9%



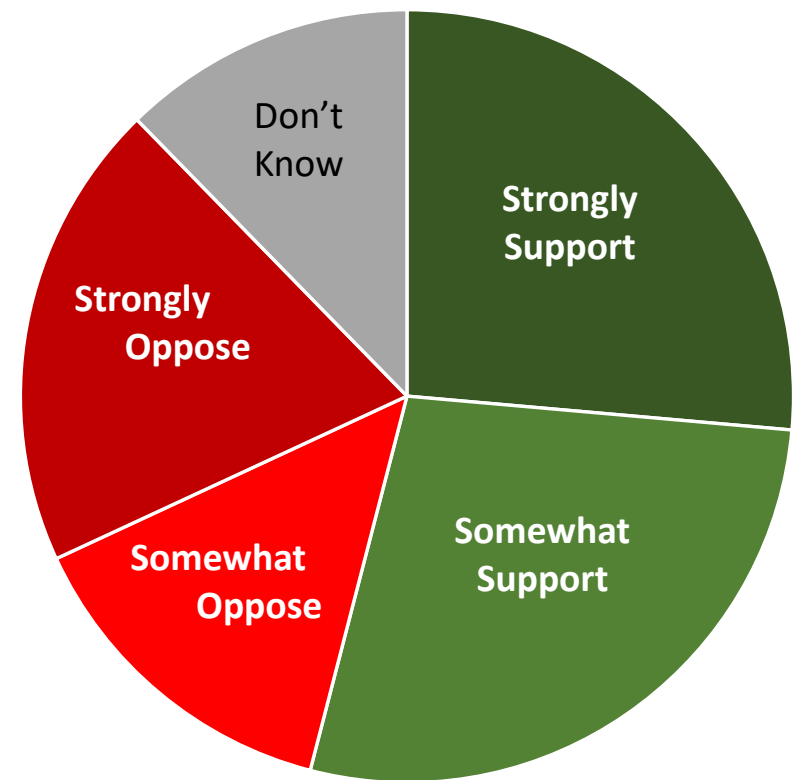
TOTAL RESPONSES

Q5. Support/oppose DPU goal to eliminate natural gas usage by 2070?

	<u>%Support</u>	<u>%Oppose</u>
Total	54.0	33.7
LA	55.7	31.0
WR	50.2	40.8

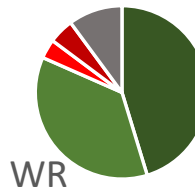
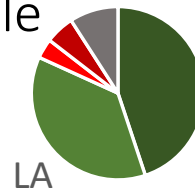


	Total Responses	Strongly Support	Somewhat Support	Somewhat Oppose	Strongly Oppose	Don't Know
Total	515	26.4%	27.6%	14.1%	19.6%	12.3%
LA	357	28.0%	27.7%	12.6%	18.4%	13.4%
WR	158	22.8%	27.4%	17.5%	22.3%	9.9%

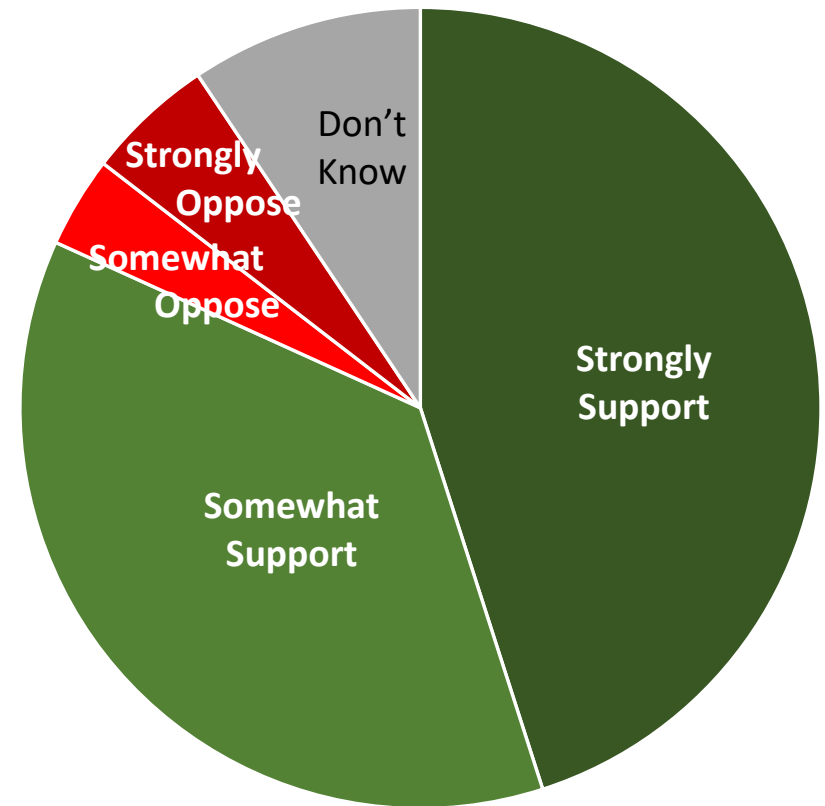


TOTAL RESPONSES

Q6. Support/oppose DPU goal to improve reclaimed wastewater used to irrigate Co. & school turf to highest quality possible for unrestricted urban uses?



	<u>%Support</u>	<u>%Oppose</u>
Total	81.8	8.8
LA	81.8	9.1
WR	81.6	8.3



	Total Responses	Strongly Support	Somewhat Support	Somewhat Oppose	Strongly Oppose	Don't Know
Total	515	45.1%	36.7%	3.7%	5.2%	9.4%
LA	357	44.9%	36.9%	3.7%	5.4%	9.1%
WR	158	45.3%	36.3%	3.6%	4.7%	10.1%

# Citizen Committee Conservation Initiatives

- A volunteer citizen committee was tasked to recommend conservation initiatives for Los Alamos
- The committee met several times throughout the spring & summer of 2020
- Members prepared a report and presented recommended conservation initiatives to the BPU in July 2020
- With adopted BPU conservation goals, DPU will attempt to incorporate citizen committee recommendations into an updated Energy and Water Conservation Plan.



C	COMM	EFFRT	INITIATIVE		C	COMM	EFFRT	INITIATIVE	
EDUCATION	EGW	A	AMI data education		PRTN	EGW	A	Coord. & support LAPS	
	EG	A	Encourage programmable thermostats & controllers			W	X	Free delivery of tumbled glass/mulch when replacing turf	
	EG	A	Publish Standards: thermostat setting & energy savings		ORDINANCE	W	\$XT	Granular tiered rates (100 gal.)	
	EGW	A	“ <u>Conserv.</u> happens” unit costs increase; early adopters save			W	\$XT	Reduce outdoor water use, rates	
	EG	A	General Energy Efficiency			EG	\$XT	Convert elec./gas monthly svc charges to minimum charges	
	W	A	Reduce outdoor water: xeriscape, rain harvesting			W	\$XT	Eliminate monthly svc. charge for water	
CUS	EGW	\$X	Add “Residential Avg” to bills for comparison			E	\$XT	Accommodate customer PPA hybrid solar	
RESEARCH	EGW	XT	Pursue grants for appliance rebates & publicize		NOT DPU JURISDICTION	EGW	XT	Waive permit fees <u>bldg</u> improvements that cut utility use (CDD/Council)	
	W	\$XT	Reduce outdoor water use incentives			E	XT	Eliminate most streetlights (PW/Council)	
C=Category COMM=Commodity (E: Electric, G: Gas, W: Water) PRTN=Partnership CUST=Customize/Working w/vendor EFFRT=Effort to Implement <ul style="list-style-type: none"><li>\$=Additional budget to implement;</li><li>X=Extra or Additional Staff Resources;</li><li>T=Time;</li><li>A=Adequate Staff and Budget to implement.</li></ul>						NOT DPU JURISDICTION	E	XT	Eliminate fees to set up off-grid solar (State & CDD fees)
							E	XT	Solar-ready roofs and siting for new construction (CDD/Council)
							G	XT	No natural gas hookups to new bldgs. (CDD/Council)

# Conservation Plan

- DPU will update the energy & water conservation plan inhouse
- Where possible, DPU will incorporate recommended committee initiatives
- Other committee initiatives will need additional research or coordination & cooperation from other jurisdictions
- At a later date, DPU will bring the conservation plan to BPU for consideration and adoption
- At the Council's direction, the County is seeking citizens to participate on a committee to address greenhouse gas emissions (w/BPU a representative).
- DPU will also coordinate efforts with this committee as appropriate