OMB No. xxxx-xxxx Expiration xxxx

Introduction:

Hello, my name is _____ and I am calling on behalf of the United States Department of Energy (DOE). We are conducting a national survey about energy and related industries. May I please speak to the person most knowledgeable about staffing at [organization]?

Is now a convenient time? [IF NO – Collect callback information and time]

This survey uses specific terms to describe various technologies and activities. If you require any definitions for clarification, please ask me at any time.

The survey is **voluntary** and can take up to 45 minutes of your time. (If needed): This important survey addresses businesses that research, develop, manufacture, construction, install or work with facilities or products that generate, distribute, store, or save energy.

(If needed): This important survey addresses businesses that research, develop, manufacture, install or work with products that generate, distribute, store, use (in the case of motor vehicles), or save energy.

(If needed) This includes firms that support the construction of manufacturing and warehousing facilities used to assemble and distribute energy products, as well as the build out of electric charging stations for electric vehicles and ports that are preparing or supporting offshore wind development or operations, or other energy related work.

(If needed): This includes organizations involved in fossil and renewable energy production, energy efficiency products and services, solar, wind, fossil and other energy sources, other energy related products and services, and motor vehicles.

(If needed): Your individual responses will not be published; only aggregated information will be used in reporting the survey results.

(If needed): Your participation will help determine how investments of time and money should be made to support the industry and prepare the present and future workforce. (If needed): If you have any questions about DOE's involvement in this survey, please contact [Betony Jones] at [240-255-8519]

The information you provide to the Department of Energy (DOE) during this study will be used to allow energy-related employment to be assigned by primary value chain activity, including: research and development; manufacturing; sales and distribution; installation, repair and maintenance; and professional services. It will also provide insight on wages, workforce demographics, and employers' ability to recruit qualified workers.

The data you supply will be used by industry, training organizations, community colleges, job seekers, federal agencies, and other stakeholders, to better inform the workforce development system by highlighting changes in the industry that are driving demand for workers. The data will also inform energy economic development planning activities at the local, state, and regional levels by providing a more detailed assessment of energy jobs, as well as the changing energy landscape and how such changes influence labor markets.

With your consent, the DOE will collect your response as you participate in the study. This includes responses to all survey questions for which your firm qualifies. Your feedback will be kept private and will not be linked to you. Only de-identified and aggregated information will be included in any final or published reports. None of your identifying information will be included in the reports. The DOE does not anticipate further disclosure of your personal information except as required by law.

This collection of information is authorized by xxxx. Participation is voluntary, and you may withdraw participation at any time.

Paperwork Reduction Act Burden Disclosure Statement

Public reporting burden for this collection of information is estimated to up to 48 minutes, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to Office of the Chief Information Officer, Enterprise Policy Development & Implementation Office, IM-22, Paperwork Reduction Project OMB Control Number xxxx-xxxx, U.S. Department of Energy, 1000 Independence Ave SW, Washington, DC, 20585-1290; and to the Office of Management and Budget (OMB), OIRA, Paperwork Reduction Project OMB Control Number xxxx-xxxx, Washington, DC 20503.

Notwithstanding any other provision of the law, no person is required to respond to, nor shall any person be subject to a penalty for failure to comply with a collection of information subject to the requirements of the Paperwork Reduction Act unless that collection of information displays a currently valid OMB control number.

Submission of this data is voluntary.	
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A. Does your organization have at least one location with employees in the United States, including Puerto Rico and the Virgin Islands? (Please count yourself as an employee if you are an owner-operated business or sole proprietor).

- 1 Yes [CONTINUE]
- 2 No [TERMINATE]

For this survey, please only answer for your current business location. If your
organization has other U.S. locations, please do not include their data. What is the
zip code of your current location? [SHOW ADDRESS FROM SAMPLE FILE]

((Accept all	five-digit responses)
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(DON'T READ) Have check box for Refused (Terminate if Refused)

- B. Is your organization involved, in whole or part, with an activity related to energy? (PAUSE, IF UNSURE OR NO READ REMAINDER OF QUESTION, IF YES GO TO SC) We define this as being directly involved with researching, developing, producing, manufacturing, distributing, selling, implementing, installing, or repairing components, constructing facilities (for energy product manufacturing and distribution) or other energy infrastructure projects such as EV charging and ports for offshore wind, and other goods or services related to:
 - Electric Power Generation;
 - Electric Power Transmission, Distribution, and Storage;
 - Energy Efficiency, Including Heating, Cooling and Building Envelope;
 - Fuels, including Extraction, Processing, Production, and Distribution;
 - and Transportation, including Motor Vehicles.
 - 1 Yes [CONTINUE]
 - 2 No [CONTINUE]
 - 3 Not sure [TERMINATE]
- c. Is your organization participating in the building, construction, or retrofitting of manufacturing, assembling, or materials processing facilities?
 - 1 Yes [CONTINUE TO SD.]
 - 2 No [GO TO SD.]
 - 3 Not sure [TERMINATE]
- D. Is your organization participating in the building, construction, or retrofitting of warehouses and related logistical facilities?
 - 1 Yes [CONTINUE TO SE.]
 - 2 No [GO TO SE.]
 - 3 Not sure [TERMINATE]

	our organization participating in the building, construction, or retrofitting of public ties for infrastructure, energy, or transportation?
1 2 3	Yes [CONTINUE TO SF.] No [GO TO SF.] Not sure [TERMINATE]
	ur organization participating in the building, construction, expansion, or fitting of ports and port related facilities?
2	Yes [CONTINUE TO SG.] No [TERMINATE IF SError: Reference source not found=2 AND SC.=2 0.=2 AND SE.=2] Not sure [TERMINATE]
IF SC.=2	1 OR SD.=1 OR SE.=1 OR SF.=1 ASK SG. OTHERWISE SKIP 2 AND SD.=2 AND SE.=2 AND SF.=2 AND SError: Reference source not 3, TERMINATE
	e last 12 months, has your organization been directly involved in the building construction of any of the following types of facilities?
	IF SC.=1 ASK OTHERWISE SKIP1. Manufacturing facilities related to wind energy (offshore or land-based), hydrogen, batteries or energy storage, solar energy, or other energy related manufacturing facilities?
1 2 3	Yes (specify type) No Not sure
	IF SD.=1 ASK OTHERWISE SKIPWarehouse facilities and distribution centers related to energy and energy storage?
1 2 3	Yes (specify type) No Not sure

IF SE.=1 ASK OTHERWISE SKIP

3. Electric charging stations for electric vehicles or other related infrastructure for electric or alternative vehicles?

	1 2 3	Yes (specify type) No Not sure
		IF SF.=1 ASK OTHERWISE SKIP4. Ports that are preparing or supporting offshore wind development or operations or the transportation of Liquified Natural Gas or other energy related work?
	1 2 3	Yes (specify type) No Not sure
		eference source not found=2 AND SG.1=1 OR SG.2=1 OR SG.3=1 OR Q AND Q2., THEN SKIP TO Q1, OTHERWISE TERMINATE
H.	1. Huma	our role in your organization? n resources r, manager, or proprietor [Specify]
I.	[ALLOW energy re	the following industries describes your organization's work? MULTIPLE RESPONSES] [IF NEEDED: If your organization is involved in search or professional services for the industry, please select the options nost relevant to your organization.]
	 Electr station Storag Energ 	ic Power Generation ic Power Transmission and Distribution, including electric vehicle charging ns ge, including electric vehicle batteries y Efficiency, Including Heating, Cooling and Building Envelope (IF DED THIS INCLUDES THERMAL OR HOT WATER SOLAR)
	 Trans indust vehicl Comp Carbo 	portation Vehicles, including Motor Vehicles (IF NEEDED: Including rial and agricultural vehicles, such as forklifts, tractors, and recreational es, such as golf carts) e onent Parts for Transportation Vehicles on Capture, Utilization, and Storage (CCUS)
	10. Other	Air Capture (DAC) (Specify) TERMINATE A TERMINATE

[ASK SCREENER J. IF SI. COUNT>1]]

- J. Which do you consider your organization's **primary** industry, based on the majority of labor hours performed at your location? [PIPE IN SI. CATEGORIES, ACCEPT ONE]
 - 1. Electric Power Generation
 - 2. Electric Power Transmission and Distribution, including electric vehicle charging stations
 - 3. Storage, including electric vehicle batteries
 - 4. Energy Efficiency, Including Heating, Cooling and Building Envelope (IF NEEDED THIS INCLUDES THERMAL OR HOT WATER SOLAR)
 - Fuels
 - 6. Transportation, including Motor Vehicles (IF NEEDED: Including industrial and agricultural vehicles, such as forklifts, tractors, and recreational vehicles, such as golf carts)
 - 7. Component Parts for Transportation Vehicles
 - 8. Carbon Capture, Utilization, and Storage (CCUS)
 - 9. Direct Air Capture (DAC)
 - 10. Other

CREATE SJ.PRIME FROM SI. IF SI. COUNT=1, OR SJ. IF SI. COUNT>1

K. [ASK FOR EACH SI.] Which of the following [INSERT SI. RESPONSE] technologies is your organization directly engaged with? [READ LIST, ALLOW MULTIPLE RESPONSES]

A. Electric Power Generation (IF SI.=1) [RANDOMIZE]

- 1. Solar Electric Generation [SET SOLAR=1]
- 2. Land-based Wind Generation
- 3. Offshore Wind Generation
- 4. Geothermal Generation
- 5. Bioenergy/Biomass Generation
- 6. Low-Impact Hydroelectric Generation such as run of river
- 7. Traditional Hydroelectric Generation
- 8. Marine and Hydrokinetic Generation
- 9. Advanced/Low Emission Natural Gas
- 10. Nuclear Generation
- 11. Coal Generation
- 12. Oil and other Petroleum Generation
- 13. Natural Gas Generation
- 14. Combined Heat and Power
- 15. Other Generation (Specify)

B. Electric Power Transmission and Distribution (IF SI.=2) [RANDOMIZE]

1. Traditional Transmission and Distribution

- 2. Electric Vehicle Charging Stations
- 3. Smart Grid
- 4. Micro Grids
- 5. Other Grid Modernization
- 6. Other (Specify)

C. Storage (IF SI.=3) [RANDOMIZE] [IF SK.A=1, "(including battery storage for solar generation)"

- 1. Pumped hydro-power storage
- 2. Battery storage, including electric vehicle batteries [IF SK.A=1, "(including battery storage for solar generation)"
- 3. Mechanical storage (flywheels, compressed air energy storage, etc.)
- 4. Thermal storage
- 5. Liquefied natural gas
- 6. Compressed natural gas
- 7. Crude oil
- 8. Refined petroleum fuels (liquid)
- 9. Refined petroleum fuels (gas)
- 10. Coal storage (piles, domes, etc.)
- 11. Biofuels, including ethanol and biodiesel
- 12. Nuclear fuel
- 13. Other gas fuel (Specify)
- 14. Other liquid fuel (Specify)
- 15. Other Storage
- 16. Other (Specify)

IF SK.C=2, ASK H 2, H 3, and H 4

H_2. What type of Battery Storage do you work with? [READ LIST, ALLOW MULTIPLE RESPONSES] [RANDOMIZE]

- 1. Lithium batteries
- 2. Lead-based batteries
- 3. Other solid-electrode batteries (Specify)
- 4. Vanadium redox flow batteries
- 5. Other flow batteries (Specify)

H_3. What is the application of your battery storage work? [READ LIST, ALLOW MULTIPLE RESPONSES] [RANDOMIZE]

- 1. Consumer devices
- 2. Vehicles or other transportation (including electric vehicles)
- 3. Behind-the-meter (buildings or industrial facilities)
- 4. Front-of-meter (electric grid)
- 5. Other (Specify)

H_4: What stage of batteries do you work with? [READ LIST, ALLOW MULTIPLE RESPONSES] [RANDOMIZE]

- 1. Materials (lithium, cobalt, manganese, graphite, nickel, etc.)
- 2. Component parts
- 3. Cells
- 4. Modules/Packs
- 5. Other (Specify)

D. Energy Efficiency, Including Heating, Cooling and Building Envelope (IF SK.=4) [RANDOMIZE]

- 1. ENERGY STAR® Certified Appliances (not including HVAC)
- 2. ENERGY STAR Certified Heating, Ventilation, and Cooling (HVAC), except airsource and ground-source heat pumps
- 3. ENERGY STAR Air-Source Heat Pumps
- 4. ENERGY STAR Ground-source or geothermal heat pumps
- 5. Other high efficiency HVAC that are out of scope for ENERGY STAR certification (e.g. indirect evaporative coolers, air to water heat pumps, energy recovery systems, etc.)
- 6. Traditional HVAC goods, control systems, and services
- 7. ENERGY STAR certified water heaters
- 8. ENERGY STAR Certified Electronics (TVs, Telephones, Audio/Video, etc.)
- 9. ENERGY STAR Certified Windows, Doors and Skylights
- 10. ENERGY STAR Certified Roofing
- 11. ENERGY STAR Certified Insulation
- 12. Air sealing
- 13. ENERGY STAR Certified Commercial Food Service Equipment
- 14. ENERGY STAR Certified Data Center Equipment
- 15. ENERGY STAR Certified LED lighting
- 16. Other LED, CFL, and efficient lighting
- 17. Solar thermal water heating and cooling [SET SOLAR=1]
- 18. Other renewable heating and cooling (biomass, etc.)
- 19. Advanced building materials/insulation
- 20. Recycled building materials
- 21. Reduced water consumption products and appliances
- 22. Energy auditing services
- 23. Other (Specify)

E. Fuels (IF SK.=5) [RANDOMIZE]

- 1. Coal
- 2. Onshore petroleum, including gasoline and diesel
- 3. Offshore petroleum, including gasoline and diesel
- 4. Onshore natural gas

5. Offshore natural gas 6. Other Fossil Fuel 7. Corn Ethanol 8. Renewable Diesel 9. Biodiesel 10. Other Ethanol/Non-Woody Biomass 11. Woody Biomass/Cellulosic Biofuel 12. Waste Fuels 13. Other Biofuels 14. Nuclear Fuel 15. Other (Specify) ASK KA IF SK.E = 2 & 3 KA. Do you primarily work with onshore or offshore petroleum? 1. Onshore petroleum 2. Offshore petroleum 3. Don't know/ Refused ASK KB IF SK.E = 4 & 5 KB. Do you primarily work with onshore or offshore natural gas? 1. Onshore natural gas 2. Offshore natural gas 3. Don't know/ Refused F. Transportation Vehicles, Including Motor Vehicles (IF SI.=6) [RANDOMIZE] 1. Gasoline and Diesel Motor Vehicles (excluding freight transport) 2. Hybrid Electric Vehicles 3. Plug-In Hybrid Vehicles 4. Electric Vehicles 5. Natural Gas Vehicles 6. Hydrogen/Fuel Cell Vehicles

G. Component Parts for Transportation Vehicles (IF SI.=7) [RANDOMIZE]

- 1. Transportation Vehicle Engine & Drive Parts
- 2. Transportation Vehicle Exhaust System Parts
- 3. Transportation Vehicle Body Parts
- 4. Other Transportation Vehicle Parts (Specify)

SET SOLAR=1 IF SK.A=1 OR SK.D=17

7. Other (Specify _____)

IF SK. TOTAL>1, ASK SK.PRIME, IF NOT, SKIP

SK.PRIME. Which of the following technologies is your organization *PRIMARILY* engaged with?

[PIPE-IN RESPONSES FROM SK.A-SK.G]

[IF RESPONDENT ONLY IDENTIFIES WITH ONE INDUSTRY AT SCREENER I., USE THAT INDUSTRY FOR THE REMAINDER OF THE SURVEY IN PLACE OF "ENERGY" / IF MORE THAN ONE, CONTINUE TO USE "ENERGY." EXCEPTION - IF THE ONLY SELECTION AT SCREENER I. IS "OTHER" OR "DK/NA," USE "ENERGY"]

- L. Which of the following industry descriptions describe your organization's focus as it relates to the [energy/ SI.] industry? [ALLOW MULTIPLE RESPONSES]
 - 1. An organization involved in agricultural goods and services
 - 2. An organization involved in mining and extraction
 - 3. An organization that manufactures and/or assembles [energy/ SI.] goods or produces components that go into energy products
 - 4. An organization that conducts research and development and related services for [energy/ SI.]
 - An organization involved in the wholesale trade and distribution of [energy/ SC] products and services
 - 6. An organization that installs [energy/ SI.] systems or provides services for installation of [energy/ SI.] systems
 - 7. A public or private utility
 - 8. An organization that provides consulting, engineering, finance, legal, or other professional services related to energy
 - 9. An organization that conducts operations and maintenance (O&M) for [energy/ SI.] systems

10. An organization primarily involved in education and training
11. Other support services (Specify:)
12. Other (Specify:)
13. (DON'T READ) Not sure

[ASK SCREENER M. IF MORE THAN ONE SELECTED AT SCREENER L.

- M. Which do you consider your organization's **primary** focus as it relates to the [energy/SC] industry, based on the labor hours performed at your location
 - 1. An organization involved in agricultural goods and services
 - 2. An organization involved in mining and extraction

- 3. An organization that manufactures and/or assembles [energy/ SC] goods or produces components that go into energy products
- 4. An organization that conducts research and development and related services for [energy/ SI.]
- An organization involved in the wholesale trade and distribution of [energy/ SC] products and services
- 6. An organization that installs [energy/ SI.] systems or provides services for installation of [energy/ SI.] systems
- 7. A public or private utility
- 8. An organization that provides consulting, engineering, finance, legal, or other professional services related to energy
- 9. An organization that conducts operations and maintenance (O&M) for [energy/ SI.] systems
- 10. An organization primarily involved in education and training 11. Other support services (Specify: _____)
- 12. Other (Specify:)
- 13. (DON'T READ) Not sure

SET SM.PRIME BASED ON SCREENER M. RESPONSE OR SCREENER L. RESPONSE IF SCREENER L. COUNT=1

ASK SN. IF SK.A=14 **OR** SK.B=6 **OR** SK.C = 13, 14, 15, OR 16 **OR** SK.E = 15, **AND** SL. = 4, 8, OR 10

- N. Does your organization work with hydrogen fuel in any capacity?
 - 1. Yes (Please specify)_____
 - 2. No
 - 3. Don't know/ Refused

IF SM.PRIME=7, ASK SCREENER O.

- O. Does your organization employ workers that are in charge of administering, managing, evaluating, or otherwise working on utility-led energy efficiency programs, rebates, and other activities?
 - 1. Yes
 - 2. No
 - 3. DK/NA

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For this survey, we will just be asking about the employees that work from or directly report to your current location.

IF SError: Reference source not found=2 **AND** SG.1=1 OR SG.2=1 OR SG.3=1 OR SG.4=1 ASK Q AND Q2., THEN SKIP TO Q4.

1. Including all people, permanent and temporary, contract employees as well as any other individuals who may work for or be employed by other entities, how many **people** work at or from your current location doing work for your organization?

A. Record # of ALL people ______

(DON'T READ) Refused

Of the #_(TAKE FROM Q1A)_ people that work at or from your current location, how many are permanent employees, full-time or part-time. Please note this would include all of those employees that have taxes withheld by your organization in their paycheck.

B. Record # of permanent employees ______

(DON'T READ) Refused

Of the #_(TAKE FROM Q1A)_ people that work at or from your current location, how many are self-employed or independent contractors working for your organization. Please note this would include all of those individuals that receive a 1099 from your organization rather than wages with taxes withheld for them.

C. Record # of self-employed or independent contractors ______

(DON'T READ) Refused

Of the #_(TAKE FROM Q1A)_ people that work at or from your current location, how many are employed by another firm or entity, such as a temporary employment agency or a union hiring hall, but are providing services for your organization. Please note this would include all consultants, temporary workers or advisors that are employed by another firm but doing work for your organization.

D. Record # of people employed by another firm ______

(DON'T READ) Refused

[BUILD IN CHECK SO Q1B + Q1C + Q1D = Q1A]

Now we want to just ask about those permanent employees that work at or from your current location.

2.		Based on [Take QB #] full-time and part-time permanent employees at your location, now many employees do you expect to have at your location 12 months from now?			
	1 2 3 4	More [record #] Fewer [record #] (DON'T READ) Same number (DON'T READ) Refused			
	Just to co location a	t differs by 10% or more in either direction, ask:] nfirm, you currently have permanent employees at your current nd you expect to have (more/fewer) employees, for a total of nt employees 12 months from now.			
	SError: Re 5.4=1 SKIF	ference source not found=2 AND SG.1=1 OR SG.2=1 OR SG.3=1 OR TO Q4.			
3.	location, h	tke Q #] full time and part-time permanent employees at your current now many of these workers support the [energy/ SI.] portion of your Please note that your response should include administrative staff of the energy portion of your business.			
		Record # of employees			
		(DON'T READ) Have check box for Refused			
SP PR	END ANY	SUPPORT WORKERS ARE DEFINED AS THOSE INDIVIDUALS THAT AMOUNT OF TIME, DIRECTLY WORKING ON ENERGY RELATED NCLUDING ADMINSTRATIVE SUPPORT WORKERS] BE LESS THAN OR EQUAL TO Q1 - BUILD IN CHECK]			
	SG.4=1 A	Reference source not found=2 AND SG.1=1 OR SG.2=1 OR SG.3=1 OR SK Q4., THEN SKIP TO Q6. OTHERWISE SKIP. IF YES TO MORE IE SG. CATEGORY ASK QUESTION FOR EACH ONE THAT IS YES]			
4.	location, he related to RESPON	tke Q #] full time and part-time permanent employees at your current now many of these workers support the building and construction work manufacturing facilities / warehouses / infrastructure / ports? (PIPE IN SES FROM SG.) Please note that your response should include ative staff supporting this portion of your business.			
		Record # of employees			
		(DON'T READ) Have check box for Refused			
ſιϝ	NEEDED:	SUPPORT WORKERS ARE DEFINED AS THOSE INDIVIDUALS THAT			

[IF NEEDED: SUPPORT WORKERS ARE DEFINED AS THOSE INDIVIDUALS THAT SPEND ANY AMOUNT OF TIME, DIRECTLY WORKING ON CONSTRUCTION RELATED PROJECTS INCLUDING ADMINISTRATIVE SUPPORT WORKERS]

5.	Of your [Take Q3. #] energy staff at your location (office staff and in the field), please classify them into the area where they spent most of their time over the last 12 months. Please count each employee only once.
	 a. In-state within your region/metropolitan area [Record #] b. In-state outside your region/metropolitan area [Record #] c. Out-of-state [Record #]
	SB=1 OR SError: Reference source not found=2 AND SG.1=1 OR SG.2=1 OR G.3=1 OR SG.4=1 ASK Q6. AND Q7.
6.	How many full-time and part-time permanent employees did you have working at your current location 12 months ago that supported the [energy/ SI./ facilities construction] portion of your business?
	Record # of employees
	(DON'T READ) Have check box for Refused
7.	Based on [Take Q3. #] full-time and part-time permanent employees at your location that support the [energy/ SI./ facilities construction] portion of your business, how many employees do you expect to have at your location 12 months from now?
	 More [record #] Fewer [record #] (DON'T READ) Same number (DON'T READ) Refused
	Just to confirm, you currently have permanent employees supporting the energy portion of your business and you expect that number to be (more/fewer) 12 months from now, for a total of
	RESPONDENTS ANSWERED Q3 ASK Q8A AND Q9A IF RESPONDENTS NSWERED Q4 ASK Q8B AND Q9B

8. A. Thinking of your [INSERT Q3.] energy employees, how many spend at least 50% of their time supporting the energy portion of your business?

Record:
B. Thinking of your [INSERT Q4] employees that support the building and construction work related to manufacturing facilities / warehouses / infrastructure / ports? (PIPE IN "YES" RESPONSES FROM SG.), how many spend at least 50% of their time supporting that portion of your business?
Record:
9. A. Thinking of your [Q3. ANSWER] energy employees, how many spend all of their time supporting the energy portion of your business?
Record:
B. Thinking of your [INSERT Q4] employees that support the building and construction work related to manufacturing facilities / warehouses / infrastructure / ports? (PIPE IN "YES" RESPONSES FROM SG.), how many spend all of their time supporting that portion of your business?
Record:
IF SError: Reference source not found=2 AND SG.1=1 OR SG.2=1 OR SG.3=1 OR SG.4=1 SKIP TO Q21.
SECTION 2 – Workforce Profile Questions
If SI. COUNT > 1 response, ASK Q10.
10. Thinking of your [Take Q3.] [energy/ SI.] workers at your location, please classify them in the following categories. Please count each employee only once and categorize them in the area where they spend the most time.
PIPE IN SCREENER I. RESPONSES
Record # of employees
If SI. COUNT > 1 response and Q8.>0, ASK Q11.
11. Thinking of your [Take Q8.] [energy/ SI.] workers that spend at least 50% of their time supporting the energy portion of your business, please classify them in the following categories. Please count each employee only once and categorize them in the area where they spend the most time.

PIPE IN SCREENER I. RESPONSES AND EMPLOYMENT FROM Q8.]

Record # of employees
BUILD CHECK SO TOTAL MUST = Q8.
IF SI. = 1 and Screener $KA > 1$ response, ASK Q12. OTHERWISE SKIP
USE Q3. IN PLACE OF Q10. IF SELECTED COUNT AT SCREENER I. WAS ONE (ONE CHOICE)
12. Thinking of your [PIPE IN Q10./Q3. GENERATION ANSWER] energy generation workers at your location, please classify them in the following categories. Please count each employee only once and categorize them in the technology area where they spend the most time.
PIPE IN SCREENER KA RESPONSES
Record # of employees
IF SI. = 2 and Screener K. .B > 1 response, ASK Q13. OTHERWISE SKIP
13. Thinking of your [PIPE IN Q10./Q3 ELECTRIC POWER TRANSMISSION AND DISTRIBUTION ANSWER] energy transmission, distribution, and storage workers a your location, please classify them in the following categories. Please count each employee only once and categorize them in the technology area where they spend the most time.
PIPE IN SCREENER KB RESPONSES
Record # of employees
IF SI. = 3 and Screener K. .C > 1 response, ASK Q14. OTHERWISE SKIP
14. Thinking of your [PIPE IN Q10./Q3. STORAGE ANSWER] storage workers at your location, please classify them in the following categories. Please count each employee only once and categorize them in the technology area where they spend

the most time.

PIPE IN SCREENER K..C RESPONSES

Record # of emp	oloyees
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IF Q14._2(BATTERY STORAGE)>0, ASK Q15.

- 15. Thinking of your [PIPE IN Q14._2 #] battery storage workers at your location, please classify in them in the following categories. Please count each employee only once and categorize them in the battery storage application category where they spend the most time.
 - 1. Consumer devices [Record # of employees]
 - 2. Vehicles or other transportation [Record # of employees]
 - 3. Buildings or industrial facilities [Record # of employees]
 - 4. Electric Grid [Record # of employees]
 - 5. Other (Specify) [Record # of employees]
- IF SI. = 4 and Screener K..D > 1 response, ASK Q16. OTHERWISE SKIP
- 16. Thinking of your [PIPE IN Q10./Q3. ENERGY EFFICIENCY, INCLUDING HEATING, COOLING AND BUILDING ENVELOPE ANSWER] energy efficiency, including heating, cooling and building envelope, workers at your location, please classify them in the following categories. Please count each employee only once and categorize them in the technology area where they spend the most time.

Р	IPE.	IN	SCF	₹EEI	NER	KD	RESPO	NSES

Record # of employees
IF SI. = 5 and Screener K. .E > 1 response, ASK Q17. OTHERWISE SKIP

17. Thinking of your [PIPE IN Q10./Q3. FUELS ANSWER] fuels-related workers at your location, please classify them in the following categories. Please count each employee only once and categorize them in the technology area where they spend the most time.

PIPE IN SCREENER E.E RESPONSES

Record # of emplo	yees
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- IF SI. = 6 and Screener K..F > 1 response, ASK Q18. OTHERWISE SKIP
- 18. Thinking of your [PIPE IN Q10./Q3. TRANSPORTATION VEHICLES ANSWER] motor-vehicle related workers at your location, please classify them in the following

categories. Please count each employee only once and categorize them in the technology area where they spend the most time.

PIPE IN SCREENER E.F RESPONSES
Record # of employees IF SI. = 5 and Screener K. .G > 1 response, ASK Q19. OTHERWISE SKIP
19. Thinking of your [PIPE IN Q10./Q3. COMPONENT PARTS ANSWER] energy generation workers at your location, please classify them in the following categories Please count each employee only once and categorize them in the technology area where they spend the most time.
PIPE IN SCREENER KG RESPONSES
Record # of employees
Demographic questions
20. Thinking of your [Take Q3./Q4] [energy/ SI.] employees, how many are:
 a) Men: Record # employees b) Women: Record # of employees c) Gender non-binary/other: Record # of employees d) (DON'T READ) Refused
Q20. a+b+c must = Q3.
IF SError: Reference source not found=1 OR SError: Reference source not found=2 AND SG.1=1 OR SG.2=1 OR SG.3=1 OR SG.4=1ASK Q21. THROUGH Q37.23.
21. Thinking of your [Take Q3./Q4] [energy/ SI./ facilities construction] employees, please indicate the race and/or ethnicity:
 (a) American Indian or Alaska Native For example, Navajo Nation, Blackfeet Tribe of the Blackfeet Indian Reservation of Montana, Native Village of Barrow Inupiat Traditional Government, Nome Eskimo Community, Aztec, Maya, etc. Record # of employees (b) Asian
For example, Chinese, Asian Indian, Filipino, Vietnamese, Korean, Japanese, etc. Record # of employees
(c) Black or African American For example, African American, Jamaican, Haitian, Nigerian, Ethiopian, Somali, etc. Record # of employees
(d) Hispanic or Latino

For example, Mexican, Puerto Rican, Salvadoran, Cuban, Dominican, Guatemalan, etc. Record # of employees
22. Thinking of your [Take Q3./Q4] [energy/ SI./ facilities construction] employees, how many:
 a) Are Veterans of the U.S. Armed Forces Record # of employees b) Are 55 and over Record # of employees c) Are between 30 and 54 Record # of employees d) Represented by Unions, Collective Bargaining Agreements, and/or Project Labor Agreements Record # of employees e) Have a disability that requires accommodation f) Were formerly incarcerated g) (DON'T READ) Refused
23. Thinking of the current [Take Q3./Q4] [energy/ SI./ facilities construction] employees at your location, how many are in the following occupational categories?
(Please only assign one category to each employee that supports the [energy/ SI.] portion of your business. If they fall into more than one category, please assign them to the category in which they devote more of their time.)
 a. Mining and Extraction Field positions (includes oil field workers, miners, etc.)
 Production/Manufacturing positions (includes workers in refineries and assembly workers and those involved in the design, quality control and manufacturing process)
Record # of employees (DON'T READ) Have check box for Refused
 c. Construction, installation or repair positions (includes technicians, building trades people, and supervisors that are working at project site)
Record # of employees

(DON'T READ) Have check box for Refused

d.	Administrative positions (includes customer service representatives, clerks, office and operations support)
	Record # of employees (DON'T READ) Have check box for Refused
e.	Management/Professional positions (<i>does not include</i> those supervisors that spend a majority of their time at project sites or sales managers)
	Record # of employees (DON'T READ) Have check box for Refused
f.	Sales positions (includes cost estimators, sales representatives and sales managers)
	Record # of employees (DON'T READ) Have check box for Refused
g.	Other (Specify:)
	Record # of employees (DON'T READ) Have check box for Refused
(CREATE IN	TERNAL CONTROL SO Q23. A+B+C+D+E+F+G EQUALS Q3.]
SECTION 3 -	- Workforce Development & Training Needs
	y energy/ facilities construction workers have you hired over the last 12 ither for new positions or to replace former workers?
	Record
IF Q24.>0, as	sk Q2528. otherwise SKIP
hired at y	of the [Insert Q24.] energy/ facilities construction workers that you have our location over the last 12 months, please indicate your level of difficulty alified applicants to fill the positions.
	Very difficult Somewhat difficult

3. Not at all difficult

4. DK/NA

IF Q25. = 1 c	or 2 ask Q26. and Q27., otherwise SKIP
26. What are	the two most significant reasons for the reported difficulty?
27. Please pr location.	rovide the two most difficult positions for your organization to fill at your
•	rted [insert Q24.] additional workers at your organization over the last 12 Of these [insert Q24.] positions, how many:
a.	Were newly created positions?
	Record # of employees
b.	Were existing employees that added energy responsibilities?
	Record # of employees
C.	Were hired to replace workers due to turnover or retirement?
	Record # of employees
d.	Were positions that required previous work experience related to the position?
	Record # of employees
e.	Required a bachelors degree or beyond:
	Record # of employees
f.	Required an associate degree or academic certificate from an accredited college, but not a bachelors degree:
	Record # of employees
g.	Required a vocational or technical postsecondary certificate or credential:
	Record # of employees

h. Are represented by a union, collective bargaining agreement, or a project labor agreement:					
	Record # of employees				
1. 2.	r firm have a formal or informal mentorship/sponsorship program? Yes No DK/NA				
30. Briefly des	scribe the mentorship/sponsorship program?				
•	firm adopted any specific strategies, policies, or programs to increase the female hires?				
2.	Yes No DK/NA				
IF Q31. = 1, /	ASK Q32.				
32. Briefly des	scribe the strategies, policies, or programs to increase female hires?				
	firm adopted any specific strategies, policies, or programs to increase the fethnic or racial minority hires?				
2.	Yes No DK/NA				
IF Q33. = 1, /	ASK Q34.				
34. Briefly des	scribe the strategies, policies, or programs to increase minority hires?				
	firm adopted any specific strategies, policies, or programs to increase the f LGBTQ+ hires?				

1. Yes 2. No 3. DK/NA

IF Q35. = 1, ASK Q36.

- 36. Briefly describe the strategies, policies, or programs to increase LGBTQ+ hires?
- 37. Does your firm offer or require a diversity and/or inclusion training program aimed at advocating workplace diversity and inclusion?
 - 1. Yes
 - 2. No
 - 3. DK/NA

IF SError: Reference source not found=1 ASK Q38.

SECTION 4 – Business Questions

- 38. The following is a list of factors that may contribute to difficulty growing a profitable business. Please rate the significance of each factor. [READ ITEM, THEN SAY] is it very significant, somewhat significant, or not at all significant. [RANDOMIZE]
 - a. Lack of capital
 - b. Lack of qualified talent
 - c. Poor demand
 - d. Cost or supply of materials
 - e. Permitting delays
 - f. Interconnection delays
 - g. Policy challenges

IF SError: Reference source not found=1 **OR** SError: Reference source not found=2 AND SG.1=1 OR SG.2=1 OR SG.3=1 OR SG.4=1ASK Q39.-40

39. Thinking	about your organization's energy related suppliers and vendors, what
percent o	f your supply chain purchases (in dollars/value), are:
a.	In-state (Enter %)
b.	Out of state but in the United States (Enter %)
C.	Outside of the United States (Enter %) (WEB ONLY SPECIFY
	COUNTRIES)

d. DK/NA
40. Thinking about your organization's energy related customers, what percent are located:
1. In-State (Enter %)_____
2. In a bordering state but out of state (Enter %)_____
3. In the United States, but outside of a bordering state (Enter %)

5. DK/NA

- 41. Are you currently partnering with registered apprenticeship programs, community colleges, universities, government training programs, or private sector training programs? [SELECT ALL THAT APPLY]
 - 1. Yes, registered apprenticeship programs

4. Outside of the United States (Enter %)

- 2. Yes, a community college or multiple community colleges
- 3. Yes, a university or multiple universities
- 4. Yes, a government training program or multiple government training programs
- 5. Yes, a private sector training program or multiple private sector training programs
- 6. No
- 7. (DON'T READ) DK/NA
- 42. Has your business been awarded any federal government grants, loans, or procurement contracts?

[SELECT ALL THAT APPLY]

1.	Yes, grant (SPECIFY)
2.	Yes, loan (SPECIFY	
3.	Yes, contract (SPECIFY_)
1	No	

SECTION 5 – Revenue Questions

5. (DON'T READ) DK/NA

Ask Q43. if SM.PRIME = 5 or 6

43. Can you name any specific rebates or incentives that can reduce the cost of selling, distributing or installing energy for your customers? [Record up to 3]

Record:					
44. Approximately how much of your organization's work at your current location, in terms of total gross revenue, is related to energy?					
Record \$:					
ASK Q45. if S K. has multiple resp	oonses, otherwise SKIP				
terms of total gross revenue, i	our organization's work at your current location, in s related to each of the following products or services? centages, for instance 20=20%)				
1. INSERT SK. RESP 2. INSERT SK. RESP 3. INSERT SK. RESP 4	ONSE 2%				
	ot related to energy%				
Q45. total must equal 100%					
SECTION 6 – Motor Vehicles &	Component Parts				
ASK Q46. if SI. = 6, otherwise Sk	(IP				
	oes of transportation vehicles does your firm primarily air, or otherwise work with? [SELECT ONE]				
 Automobiles Light- or Medium- D Heavy Duty Vehicle Industrial Vehicles, Recreational Vehicl Rail Other (specify 	such as forklifts es, such as golf carts				
ASK Q47Q49. if SI. = 7, other	erwise SKIP				
·	design, sell, and/or distribute parts solely used for es with a fuel source other than gasoline or diesel?				
 Yes, electric vehicle Yes, hydrogen fuel Yes, other (Specify) No 	cell vehicles				

5. Don't know/ Refused

ASK Q48. IF Q47.=1, otherwise SKIP

- 48. How much of your firm's work, as a percentage of your total revenue, is attributed to parts solely used for alternative vehicles, or vehicles with a fuel source other than gasoline or diesel?
 - 1. All of it (100%)
 - 2. Half to most of it (50% to 99%)
 - 3. A guarter to almost half of it (25% to 49%)
 - 4. Less than a quarter (1% to 24%)
 - 5. (DON'T READ) DK/NA
- 49. Thinking of the type of fuel used, does your organization offer parts or products for any of the following types of transportation vehicles? [ALLOW MULTIPLE]
 - 1. Gasoline and Diesel Motor Vehicles (excluding freight transport)
 - 2. Hybrid Electric Vehicles
 - 3. Plug-In Hybrid Vehicles
 - 4. Electric Vehicles
 - 5. Natural Gas Vehicles
 - 6. Hydrogen Vehicles
 - 7. Fuel Cell Vehicles
 - 8. Other (Specify ____)

[If Q49. = 2,3, or 4, ask Q50., otherwise SKIP]

- 50. Which systems for electric and hybrid vehicles does your firm primarily work with?
 - a. Body design or structure
 - b. Batteries
 - c. Charging components
 - d. Electric propulsion (i.e. converter, controller, transmission, etc.)
 - e. Auxiliaries (i.e. brakes, steering, climate control, etc.)
 - f. Other (Specify)

SECTION 7 – Energy Efficiency

IF SCREENER O.=1, ASK Q51.

51.	How many of your [Take Q3#] energy employees work on administering, managing,
	evaluating, or otherwise working on utility-led energy efficiency programs, rebates, and other activities?
	Record # of employees:

SECTION 8 – Facilities Construction

IF SError: Reference source not found=2 AND SG.1=1 OR SG.2=1 OR SG.3=1 OR SG.4=1 ASK Q52.

- 52. How important are the Bipartisan Infrastructure Law (BIL), Inflation Reduction Act (IRA), and other federal policies and investments to your company's growth?
 - 1. Very important
 - 2. Somewhat important
 - 3. Not at all important
 - 4. Don't know/ Refused

WAGE SECTION

USE SCREENERS FROM USEER (2025) TO CONFIRM INFORMATION LEARNED INITIALLY

For this survey, we will just be asking about the employees that work from or directly report to your current location.

DEVELOP OCCUPATIONAL MATRIX TO IDENTIFY UP TO 4 OCCUPATIONAL CATEGORIES

Now we'd like to ask you about occupational categories that work from or report to your current location.

- 1. Thinking about the different ways you hire [OCCUPATIONAL CATEGORY], please let us know if you hire this position for permanent full-time employment, permanent part-time employment, as a temporary or independent contractor employed by your organization, OR as a temporary or contract worker employed by another organization (employment agency) or union hiring hall). (SELECT ALL THAT APPLY)
 - 1 = Permanent full-time employment (taxes withheld by employer)
 - 2 = Permanent part-time employment (taxes withheld by employer)
 - 3 = As a temporary or independent contractor paid by your organization (taxes are not withheld)
 - 4 = As a temporary or contract worker employed by another organization
 - 5 = Union hiring hall
 - 6 = No, we do not employ workers within this occupational category
 - 7 = Don't know/ No Answer

	<u>1</u>	2	3	4	5	6	DK/NA
A.	Occupational Category #11	2	3	4	5	6	7
В.	Occupational Category #21	2	3	4	5	6	7
C.	Occupational Category #31	2	3	4	5	6	7
D.	Occupational Category #41	2	3	4	5	6	7

We would like to DISPLAY you about your permanent full-time employees that work at or report to your current business location. [SKIP FOR ALL Q1A-D THAT DOES NOT EQUAL 1]

2.	How many permanent full-time _[OCCUPATIONAL CATEGORY TITLE]_ report to or work from your
	current location? [IF NEEDED: This includes persons in the field or working remotely that report to
	this location]

Record # of employees for OC #1______ Record # of employees for OC #2_____ Record # of employees for OC #3_____ Record # of employees for OC #4_____ (DON'T READ) Refused

3. What is the lowest starting or entry-level salary (excluding benefits) for [INSERT OC] ? [THIS IS PERMANENT FULL-TIME FOR Q3 – 5]

Α	OC #1	\$'s per hour / month / year
В	OC #2	\$'s per hour / month / year
С	OC #3	\$'s per hour / month / year
D	OC #4	\$'s per hour / month / year

4. What is the highest salary for [INSERT OC] at your organization?

Α	OC #1	\$'s per hour / month / year
В	OC #2	\$'s per hour / month / year
С	OC #3	\$'s per hour / month / year
D	OC #4	\$'s per hour / month / year

- 5. Over the last 12 months, have wages increased, decreased, or stayed the same for [INSERT OC]? [THIS IS PERMANENT FULL-TIME]
 - 1 Increased more than 10%
 - 2 Increased from 5% to 10%
 - 3 Increased from 1% to 4%
 - 4 Decreased
 - 5 Stayed the same
 - 6 (DON'T READ) DK/NA

	<u>1</u>	2	3	4	5	DK/NA
A.	Occupational Category #11	2	3	4	5	6
В.	Occupational Category #21	2	3	4	5	6
C.	Occupational Category #31	2	3	4	5	6
D.	Occupational Category #41	2	3	4	5	6

Now we'd like to ask about benefits for those individuals that are permanent full-time employees that work at or report to your current business location.

- 6. What type of healthcare insurance contribution does your organization make for [INSERT OC]?
 - 1 = Firm contributes ALL healthcare insurance costs for employee & family
 - 2 = Firm contributes ALL healthcare insurance costs for employee only
 - 3 = Firm contributes SOME BUT NOT ALL healthcare insurance costs for employee & family
 - 4 = Firm contributes SOME BUT NOT ALL healthcare insurance costs for employee only
 - 5 = Firm does not contribute to employee's healthcare insurance costs
 - 6 = (DON'T READ) Don't know/ No Answer

	<u>1</u>	2	3	4	5	DK/NA
A.	Occupational Category #11	2	3	4	5	6
В.	Occupational Category #21	2	3	4	5	6
C.	Occupational Category #31	2	3	4	5	6
D.	Occupational Category #41	2	3	4	5	6

7. Does your organization contribute to some type of retirement plan (401k, pension, IRAs,..) for [INSERT OC]?

Α	OC #1	1 = YES, $2 = NO$, $3 = (DON'T READ) DK/NA$
В	OC #2	1 = YES, 2 = NO, 3 = (DON'T READ) DK/NA
С	OC #3	1 = YES, 2 = NO, 3 = (DON'T READ) DK/NA
D	OC #4	1 = YES, 2 = NO, 3 = (DON'T READ) DK/NA

8. Does your organization offer paid time off (PTO) or paid vacation for [INSERT OC]?

```
A OC #1 ______ 1 = YES, 2 = NO, 3 = (DON'T READ) DK/NA
B OC #2 ______ 1 = YES, 2 = NO, 3 = (DON'T READ) DK/NA
C OC #3 _____ 1 = YES, 2 = NO, 3 = (DON'T READ) DK/NA
D OC #4 _____ 1 = YES, 2 = NO, 3 = (DON'T READ) DK/NA
```

Now I would like to ask some of the qualifications and promotion opportunities for full-time permanent positions that work at or report to your current business location.

9. Are there certificate(s), technical certification(s) or other specific educational degrees or training

. •	ns that are valued by your firm, when looking to hire [INSERT OCCUPATION]? [Single se, repeat for each occupation]
1.	Yes, a certification is required for [INSERT OCCUPATION] (Specify certification)
2.	Yes, a degree is required for [INSERT OCCUPATION] (Specify degree)
3.	Yes, a certification is NOT required for [INSERT OCCUPATION], but workers with the certification are paid an additional wage premium (Specify certification and additional wage premium per hr/yr)
4.	Yes, a degree is NOT required for [INSERT OCCUPATION], but workers with the degree are paid an additional wage premium (Specify degree and additional wage premium per hr/yr)
5.	Yes, a certification is valued for [INSERT OCCUPATION] but not required nor paid an additional wage premium (Specify certification)
6.	Yes, a degree is valued for [INSERT OCCUPATION] but not required nor paid an additional wage premium (Specify degree)

- 10. At your organization do you typically promote individuals from within for [INSERT OCCUPATION], or do you primarily hire people from outside your organization?
 - 1 Promote from within

8. (DON'T READ) Not sure

7. No

- 2 Recruit from outside the organization
- Both, promote from within and recruit from outside the organization
- 4 (DON'T READ) DK/NA

	<u>1</u>	2	3	DK/NA
A.	Occupational Category #11	2	3	4
В.	Occupational Category #21	2	3	4
C.	Occupational Category #31	2	3	4
D.	Occupational Category #41	2	3	4

[IF Q11 FOR A - D = 1 OR 3 DISPLAY Q12]

11.	At your organization what are the primary positions that people have before they become [INSE	:RT
	OCCUPATION]?	

Α	OC #1	
В	OC #2	
С	OC #3	
D	OC #4	

12. In your organization what are the primary positions that people move up to after working as a [INSERT OCCUPATION]?

Α	OC #1 _	
В	OC #2 _	
С	OC #3	
D	OC #4	

13. What percentage of the [INSERT OCCUPATION] workers at your firm are covered by a Collective Bargaining Agreement or Project Labor Agreement or are otherwise members or covered by one or multiple labor unions?

```
1 A few (1% - 25%)
```

^{6 (}DON'T READ) DK/NA

	<u>:</u>	1	2	3	4	5	6
A.	Occupational Category #1	1	2	3	4	5	6
В.	Occupational Category #2	1	2	3	4	5	6
C.	Occupational Category #3	1	2	3	4	5	6
D.	Occupational Category #4	1	2	3	4	5	6

14. Of the [INSERT OCCUPATION] workers at your firm, how many live within 50 miles of the office where they work from or report to?

```
1 A few (0% - 24%)
```

² Some (26% - 50%)

³ Most (51% - 75%)

⁴ All or almost all (76% - 100%)

⁵ None (0%)

² Some (25% - 49%)

³ Most (50% - 74%)

⁴ All or almost all (75% - 100%)

^{5 (}DON'T READ) DK/NA

	<u>1</u>	2	3	4	DK/NA
A.	Occupational Category #11	2	3	4	5
В.	Occupational Category #21	2	3	4	5
C.	Occupational Category #31	2	3	4	5
D.	Occupational Category #41	2	3	4	5

- 15. Does your organization inquire about criminal records on applications for job seekers for the following occupations?
 - 1 Yes, but a criminal offense does not automatically disqualify job seekers
 - Yes, and our organization prefers not hire those with any criminal offense
 - Yes, and legally the organization cannot hire those with a nonviolent criminal offense for this role
 - 4 (DON'T READ) DK/NA

	<u>1</u>	2	3	DK/NA
A.	Occupational Category #11	2	3	4
В.	Occupational Category #21	2	3	4
C.	Occupational Category #31	2	3	4
D.	Occupational Category #41	2	3	4

Thank you for completing the survey. Since it sometimes becomes necessary for the project manager to confirm responses to certain questions, please verify your contact information.

- da. First and Last Name (Interview note enter 99 for REF)
 - 1. First Name
 - 2. Last name
- db. Position (Interview note enter 99 for REF)
- dc. Phone (Interviewer Note 999999999 for REF)
- dd. Email (Interview note enter 99 for REF)
- de. Organization Name (Interview note enter 99 for REF)
- df. Organization Street Address (Interview note enter 99 for REF)
- dg. Organization City (Interview note enter 99 for REF)
- dh. Organization State (Interview note enter 99 for REF)
- di. Organization Zip (Interviewer Note 99999 for REF)

Thank you very much for your time.

- 1 COMPLETED INTERVIEW
- 2 SURVEY SAID THEY DID NOT QUALIFY
- 3 CALLBACK NEEDED, PARTIAL
- 4 REFUSAL
- 5 SOMETHING ELSE

PLEASE DISPOSITION CALL CORRECTLY.

Thank you for your time.