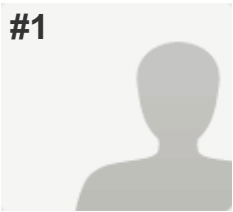


#1

**INCOMPLETE****Collector:** Email Invitation 1 (Email)**Started:** Wednesday, January 27, 2016 2:41:50 PM**Last Modified:** Wednesday, January 27, 2016 2:55:04 PM**Time Spent:** 00:13:13**Email:** moleary@bridgewater-os.com**IP Address:** 65.175.133.108**PAGE 1: Bioenergy facilities: Sustainability Research****Q1: Contact Information**

Facility Name	Bridgewater Power
Company Name	Bridgewater Power Company LP
Address	PO Box 678
City/Town	Ashland
State/Province	NH
ZIP/Postal Code	03217
Email Address	moleary@bridgewater-os.com
Phone Number	603-968-9602 x11

**Q2: Who owns this facility? (Name of Organization or individual)**

Bridgewater Power Company LP

**Q3: What type of organization are they?**

Energy producer/supplier

**Q4: Approximately how large is the facility, in acres?**

20

**Q5: What is the primary purpose of this facility?**

Create Energy Product (biogas, electricity, heat, biofuel)

**Q6: Other desired outcomes from the facility? (Choose all that apply)**

Create local jobs, Produce Soil Amendment, Regulatory Compliance, Odor Control, Other (please specify) Timber stand Improvement

**Q7: Who is the end user of surplus energy created?**

Local Utility (Grid)

**Q8: Which category best describes your biomass feedstocks?**

Other (please specify) Forest Residue

**Q9: What is the cost of feedstocks per ton? If PAID to receive feedstocks indicate with a negative price. If landfill expenses are avoided by utilizing your own waste stream, consider yourself 'paid' and indicate a negative price.**

\$30/wt

**Q10: How many tons per day are processed?**

700

**Q11: Which best describes your facility process?**

Incineration

**Q12: Is this a CHP facility?**

No

<b>Q13: What are the DAILY outputs of your facility?</b> KW's of electricity	360000
<b>Q14: Which best describes the residuals from your facility?</b>	Ash
<b>Q15: Are the residuals</b>	Other (please specify) Some sold some donated program has a cost to the facility
<b>Q16: If the residuals create income, how much per ton? If they are an expense, how much per ton (indicate using negative numbers) If used on site, or donated, please describe how, or to whom.</b>	\$10
<b>Q17: Where do the residuals from your facility go?</b>	composting facility
<b>Q18: Has a chemical analysis been performed on your residuals?</b>	Yes, and I can share the information
<b>Q19: Are the residuals safe to use as a soil amendment?</b>	Yes, only organic materials are used
<b>Q20: How many tons of residuals are created each day?</b>	15 wet tons
<b>Q21: Which portions of municipal organic waste are compatible with your existing equipment?</b>	woody waste (tree and shrub clippings)
<b>Q22: What are the barriers to using ONLY organic materials in your facility?</b>	no barriers
<b>Q23: List any major policy or regulatory barriers to your facility operations.</b>	State RPS programs and power prices
<b>Q24: Which policies or regulations have facilitated your operations?</b>	Federal or State grants, secured loans, tax credits, or other financial incentives , Renewable Energy Portfolio requirements for utilities
<b>Q25: Rank the following in terms of their importance to your bottom line.</b>	
Cost of (or income from) feedstocks	2
Value of Energy	1
Cost of (or income from) residual disposal	4
Other (please specify in next question)	3
<b>Q26: Describe the 'other' factor important to your bottom line.</b>	Labor and O&M cost

**Q27: How would the following future scenarios affect your company?**

Consumer demand for renewable energy	Will help
Rising energy prices	Will help
Technological breakthroughs in the industry	Will help
Lower energy prices	Will hurt
Higher value of residuals	Will help
Other plausible scenario? (Describe in the next question)	Will help
Other (please specify)	Power prices and or REC prices must rise to sustain operations

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**Q28: Describe another plausible scenario that would significantly affect the company?**

*Respondent skipped this question*

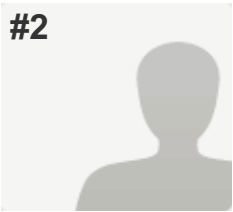
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**Q29: Are you willing to receive follow up questions after this survey?**

Yes

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#2

**COMPLETE****Collector:** Email Invitation 1 (Email)**Started:** Wednesday, January 27, 2016 2:45:31 PM**Last Modified:** Wednesday, January 27, 2016 3:00:16 PM**Time Spent:** 00:14:45**Email:** scook@kodaenergy.com**IP Address:** 173.11.46.1**PAGE 1: Bioenergy facilities: Sustainability Research****Q1: Contact Information**

Facility Name	Koda Energy CHP biomass plant
Company Name	Koda Energy LLC
Address	975 3rd Ave West
City/Town	Shakopee
State/Province	MN
ZIP/Postal Code	55379
Email Address	scook@kodaenergy.com
Phone Number	9526413613

**Q2: Who owns this facility? (Name of Organization or individual)** Koda Energy LLC

**Q3: What type of organization are they?** Energy producer/supplier

**Q4: Approximately how large is the facility, in acres?** 2.5

**Q5: What is the primary purpose of this facility?** Create Energy Product (biogas, electricity, heat, biofuel)

**Q6: Other desired outcomes from the facility? (Choose all that apply)** Regulatory Compliance,  
Cost Reductions/Revenue enhancement,  
Produce Soil Amendment, Create local jobs

**Q7: Who is the end user of surplus energy created?** Local Utility (Grid)

**Q8: Which category best describes your biomass feedstocks?** Agricultural wastes

**Q9: What is the cost of feedstocks per ton? If PAID to receive feedstocks indicate with a negative price. If landfill expenses are avoided by utilizing your own waste stream, consider yourself 'paid' and indicate a negative price.** \$45

**Q10: How many tons per day are processed?** 500

**Q11: Which best describes your facility process?** Incineration

**Q12: Is this a CHP facility?** Yes

<b>Q13: What are the DAILY outputs of your facility?</b>	
lbs of steam	5,750,000
KW's of electricity	500,000
Other?	2500 mmbtu of heat
<b>Q14: Which best describes the residuals from your facility?</b>	Ash
<b>Q15: Are the residuals</b>	Other (please specify) Used for soil amendment, but pay for removal
<b>Q16: If the residuals create income, how much per ton? If they are an expense, how much per ton (indicate using negative numbers) If used on site, or donated, please describe how, or to whom.</b>	-\$16.50
<b>Q17: Where do the residuals from your facility go?</b>	local farm
<b>Q18: Has a chemical analysis been performed on your residuals?</b>	Yes, and I cannot share the information
<b>Q19: Are the residuals safe to use as a soil amendment?</b>	Yes, only organic materials are used
<b>Q20: How many tons of residuals are created each day?</b>	~50 tons of wetted ash
<b>Q21: Which portions of municipal organic waste are compatible with your existing equipment?</b>	grass clippings/ leaf litter , woody waste (tree and shrub clippings)
<b>Q22: What are the barriers to using ONLY organic materials in your facility?</b>	no barriers
<b>Q23: List any major policy or regulatory barriers to your facility operations.</b>	no equality in renewable energy rates between facilities
<b>Q24: Which policies or regulations have facilitated your operations?</b>	Renewable Energy Portfolio requirements for utilities
<b>Q25: Rank the following in terms of their importance to your bottom line.</b>	
Cost of (or income from) feedstocks	2
Value of Energy	1
Cost of (or income from) residual disposal	3
Other (please specify in next question)	4
<b>Q26: Describe the 'other' factor important to your bottom line.</b>	Weak policy support for biomass derived energy

**Q27: How would the following future scenarios affect your company?**

A Carbon Tax	Will help
Consumer demand for renewable energy	Will help
Higher landfill tipping fees	Other
Rising energy prices	Will help
Technological breakthroughs in the industry	Other
Stricter emissions standards	Will hurt
Lower energy prices	Will hurt
Higher value of residuals	Will help
Other plausible scenario? (Describe in the next question)	Other
Other (please specify)	PTC for biomass electrical and thermal energy

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**Q28: Describe another plausible scenario that would significantly affect the company?**

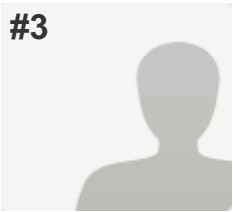
Biomass crop assistance for production facilities

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**Q29: Are you willing to receive follow up questions after this survey?**

Yes

#3

**COMPLETE****Collector:** Email Invitation 1 (Email)**Started:** Wednesday, January 27, 2016 3:04:39 PM**Last Modified:** Wednesday, January 27, 2016 3:15:08 PM**Time Spent:** 00:10:28**Email:** kstrauch@burneyforestpower.com**IP Address:** 12.146.26.26

## PAGE 1: Bioenergy facilities: Sustainability Research

<b>Q1: Contact Information</b>	<i>Respondent skipped this question</i>
<b>Q2: Who owns this facility? (Name of Organization or individual)</b>	Energy Investment Funds
<b>Q3: What type of organization are they?</b>	Energy producer/supplier
<b>Q4: Approximately how large is the facility, in acres?</b>	14
<b>Q5: What is the primary purpose of this facility?</b>	Create Energy Product (biogas, electricity, heat, biofuel)
<b>Q6: Other desired outcomes from the facility? (Choose all that apply)</b>	Regulatory Compliance, Cost Reductions/Revenue enhancement, Create local jobs
<b>Q7: Who is the end user of surplus energy created?</b>	Local Utility (Grid)
<b>Q8: Which category best describes your biomass feedstocks?</b>	Dedicated biomass crop
<b>Q9: What is the cost of feedstocks per ton? If PAID to receive feedstocks indicate with a negative price. If landfill expenses are avoided by utilizing your own waste stream, consider yourself 'paid' and indicate a negative price.</b>	45
<b>Q10: How many tons per day are processed?</b>	700
<b>Q11: Which best describes your facility process?</b>	Incineration
<b>Q12: Is this a CHP facility?</b>	Yes
<b>Q13: What are the DAILY outputs of your facility?</b>	
lbs of steam	500000
KW's of electricity	30000
<b>Q14: Which best describes the residuals from your facility?</b>	Ash

<b>Q15: Are the residuals</b>	Other (please specify) Soil ammendment - expense to remove
<b>Q16: If the residuals create income, how much per ton? If they are an expense, how much per ton (indicate using negative numbers) If used on site, or donated, please describe how, or to whom.</b>	-18
<b>Q17: Where do the residuals from your facility go?</b>	local farm
<b>Q18: Has a chemical analysis been performed on your residuals?</b>	Yes, and I cannot share the information
<b>Q19: Are the residuals safe to use as a soil ammendment?</b>	Yes, only organic materials are used
<b>Q20: How many tons of residuals are created each day?</b>	35
<b>Q21: Which portions of municipal organic waste are compatible with your existing equipment?</b>	<i>Respondent skipped this question</i>
<b>Q22: What are the barriers to using ONLY organic materials in your facility?</b>	Other (please specify) Air permit compliance
<b>Q23: List any major policy or regulatory barriers to your facility operations.</b>	Air permit, process water discharge permit
<b>Q24: Which policies or regulations have facilitated your operations?</b>	Renewable Energy Portfolio requirements for utilities
<b>Q25: Rank the following in terms of their importance to your bottom line.</b>	
Cost of (or income from) feedstocks	2
Value of Energy	1
Cost of (or income from) residual disposal	4
Other (please specify in next question)	3
<b>Q26: Describe the 'other' factor important to your bottom line.</b>	operations and maintenance costs



**Q27: How would the following future scenarios affect your company?**

A Carbon Tax	Will hurt
Consumer demand for renewable energy	Will help
Higher landfill tipping fees	Other
Rising energy prices	Will help
Technological breakthroughs in the industry	Will help
Stricter emissions standards	Will hurt
Lower energy prices	Will hurt
Higher value of residuals	Will help
Other plausible scenario? (Describe in the next question)	Will hurt, Will help
Other (please specify)	government subsidizing biomass or competitive forms of renewable energy

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**Q28: Describe another plausible scenario that would significantly affect the company?**

forest thinning mandates to reduce fires would benefit us

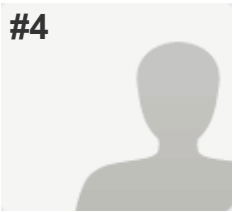
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**Q29: Are you willing to receive follow up questions after this survey?**

Yes

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#4

**COMPLETE****Collector:** Email Invitation 1 (Email)**Started:** Wednesday, January 27, 2016 3:30:08 PM**Last Modified:** Wednesday, January 27, 2016 3:40:49 PM**Time Spent:** 00:10:40**Email:** swansribbons@yahoo.com**IP Address:** 76.8.156.78**PAGE 1: Bioenergy facilities: Sustainability Research****Q1: Contact Information**

Facility Name	Hampton Alternative Energy Products, LLC
Company Name	Same
Address	P.O. Box 97
City/Town	Brunswick
State/Province	MO
ZIP/Postal Code	65236
Email Address	terry@naturesenv.com
Phone Number	(660) 634-2216

**Q2: Who owns this facility? (Name of Organization or individual)** Hampton Alternative Energy Products, LLC

**Q3: What type of organization are they?** Agricultural

**Q4: Approximately how large is the facility, in acres?** 100+ acres including feedlot and barns

**Q5: What is the primary purpose of this facility?** Waste Management solution

**Q6: Other desired outcomes from the facility? (Choose all that apply)** Odor Control, Regulatory Compliance, Cost Reductions/Revenue enhancement, Produce Soil Amendment, Create local jobs

**Q7: Who is the end user of surplus energy created?** Local Utility (Grid)

**Q8: Which category best describes your biomass feedstocks?** Agricultural wastes

**Q9: What is the cost of feedstocks per ton? If PAID to receive feedstocks indicate with a negative price. If landfill expenses are avoided by utilizing your own waste stream, consider yourself 'paid' and indicate a negative price.** use only waste product produced on site

**Q10: How many tons per day are processed?** 35,000 gallons of liquid waste

**Q11: Which best describes your facility process?** Anaerobic digestion (wet)

**Q12: Is this a CHP facility?** Unsure

<b>Q13: What are the DAILY outputs of your facility?</b>	
lbs of steam	0
KW's of electricity	up to 150 KW
cubic feet of gas	0
<b>Q14: Which best describes the residuals from your facility?</b>	Other (please specify) OMRI listed dry fertilizer (dry), developing market for liquid
<b>Q15: Are the residuals</b>	sold
<b>Q16: If the residuals create income, how much per ton? If they are an expense, how much per ton (indicate using negative numbers) If used on site, or donated, please describe how, or to whom.</b>	Not determined at this time.
<b>Q17: Where do the residuals from your facility go?</b>	Other (please specify) sold in bags
<b>Q18: Has a chemical analysis been performed on your residuals?</b>	Yes, and I cannot share the information
<b>Q19: Are the residuals safe to use as a soil amendment?</b>	Yes, only organic materials are used
<b>Q20: How many tons of residuals are created each day?</b>	1.5
<b>Q21: Which portions of municipal organic waste are compatible with your existing equipment?</b>	FOG
<b>Q22: What are the barriers to using ONLY organic materials in your facility?</b>	Other (please specify) none. Currently use only organic materials
<b>Q23: List any major policy or regulatory barriers to your facility operations.</b>	<i>Respondent skipped this question</i>
<b>Q24: Which policies or regulations have facilitated your operations?</b>	Federal or State grants, secured loans, tax credits, or other financial incentives
<b>Q25: Rank the following in terms of their importance to your bottom line.</b>	
Value of Energy	3
Cost of (or income from) residual disposal	4
<b>Q26: Describe the 'other' factor important to your bottom line.</b>	<i>Respondent skipped this question</i>

**Q27: How would the following future scenarios affect your company?**

A Carbon Tax	Will hurt
Consumer demand for renewable energy	Will help
Higher landfill tipping fees	This Won't Happen
Rising energy prices	Will help
Technological breakthroughs in the industry	Will help
Stricter emissions standards	Will hurt
Lower energy prices	Will hurt
Higher value of residuals	Will help

---

**Q28: Describe another plausible scenario that would significantly affect the company?**

*Respondent skipped this question*

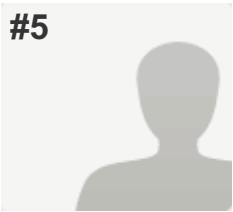
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**Q29: Are you willing to receive follow up questions after this survey?**

Yes

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#5

**COMPLETE****Collector:** Email Invitation 1 (Email)**Started:** Wednesday, January 27, 2016 3:38:07 PM**Last Modified:** Wednesday, January 27, 2016 3:47:44 PM**Time Spent:** 00:09:36**Email:** craigh@4-creeks.com**IP Address:** 50.245.181.253**PAGE 1: Bioenergy facilities: Sustainability Research****Q1: Contact Information**

Facility Name	Pixley Biogas
Company Name	4Creeks
Address	324 S. Santa Fe St., Suite A
City/Town	Visalia
State/Province	CA
ZIP/Postal Code	93292
Email Address	craigh@4-creeks.com
Phone Number	5598023052

**Q2: Who owns this facility? (Name of Organization or individual)**

Pixley Biogas, affiliate of Calgren Renewable Fuels

**Q3: What type of organization are they?**

Industry/Commercial operation

**Q4: Approximately how large is the facility, in acres?**

5 acres

**Q5: What is the primary purpose of this facility?**

Other (please specify) Ethanol Plant

**Q6: Other desired outcomes from the facility? (Choose all that apply)**

Other (please specify) Renewable Energy

**Q7: Who is the end user of surplus energy created?**

Local Industry/Commercial Operation

**Q8: Which category best describes your biomass feedstocks?**

Industrial/commercial organic waste

**Q9: What is the cost of feedstocks per ton? If PAID to receive feedstocks indicate with a negative price. If landfill expenses are avoided by utilizing your own waste stream, consider yourself 'paid' and indicate a negative price.**

Not sure the price any more

**Q10: How many tons per day are processed?**

Not sure any more

**Q11: Which best describes your facility process?**

Anaerobic digestion (wet)

**Q12: Is this a CHP facility?**

Yes

**Q13: What are the DAILY outputs of your facility?**

lbs of steam	Call Calgren Directly for this information
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<b>Q14: Which best describes the residuals from your facility?</b>	Other (please specify) Bedding for cows
<b>Q15: Are the residuals</b>	Other (please specify) Other form of compensation
<b>Q16: If the residuals create income, how much per ton? If they are an expense, how much per ton (indicate using negative numbers) If used on site, or donated, please describe how, or to whom.</b>	Other form of compensation
<b>Q17: Where do the residuals from your facility go?</b>	Other (please specify) dairy bedding
<b>Q18: Has a chemical analysis been performed on your residuals?</b>	No
<b>Q19: Are the residuals safe to use as a soil amendment?</b>	Yes, only organic materials are used
<b>Q20: How many tons of residuals are created each day?</b>	Call Calgren Directly for this information
<b>Q21: Which portions of municipal organic waste are compatible with your existing equipment?</b>	Food scraps, FOG
<b>Q22: What are the barriers to using ONLY organic materials in your facility?</b>	Other (please specify) Water Board Regulations
<b>Q23: List any major policy or regulatory barriers to your facility operations.</b>	Water Board Regulations
<b>Q24: Which policies or regulations have facilitated your operations?</b>	Renewable Energy Portfolio requirements for utilities , Federal or State grants, secured loans, tax credits, or other financial incentives
<b>Q25: Rank the following in terms of their importance to your bottom line.</b>	
Cost of (or income from) feedstocks	2
Value of Energy	3
Cost of (or income from) residual disposal	4
Other (please specify in next question)	1
<b>Q26: Describe the 'other' factor important to your bottom line.</b>	RIN and Carbon Credit prices

**Q27: How would the following future scenarios affect your company?**

A Carbon Tax	Will hurt
Consumer demand for renewable energy	Will help
Higher landfill tipping fees	Will help
Rising energy prices	Will help
Technological breakthroughs in the industry	Will help
Stricter emissions standards	Will hurt
Lower energy prices	Will hurt
Higher value of residuals	This Won't Happen

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**Q28: Describe another plausible scenario that would significantly affect the company?**

*Respondent skipped this question*

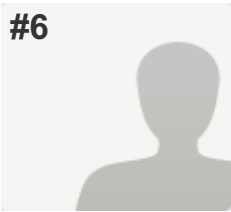
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**Q29: Are you willing to receive follow up questions after this survey?**

No

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#6

**COMPLETE****Collector:** Email Invitation 1 (Email)**Started:** Wednesday, January 27, 2016 3:24:44 PM**Last Modified:** Wednesday, January 27, 2016 3:50:53 PM**Time Spent:** 00:26:09**Email:** smarquez@toaks.org**IP Address:** 71.165.173.162**PAGE 1: Bioenergy facilities: Sustainability Research****Q1: Contact Information**

Facility Name	Hill Canyon Wastewater Treatment Plant
Company Name	City of Thousand Oaks
Address	9600 Santa Rosa Road
City/Town	Camarillo
State/Province	CA
ZIP/Postal Code	93012
Email Address	smarquez@toaks.org
Phone Number	(805)491-8123

**Q2: Who owns this facility? (Name of Organization or individual)** City of Thousand Oaks

**Q3: What type of organization are they?** Government Entity

**Q4: Approximately how large is the facility, in acres?** 50

**Q5: What is the primary purpose of this facility?** Other (please specify)  
Wastewater / Industrial Waste Treatment

**Q6: Other desired outcomes from the facility? (Choose all that apply)** Regulatory Compliance,  
Cost Reductions/Revenue enhancement,  
Other (please specify)  
Generation of renewable energy

**Q7: Who is the end user of surplus energy created?** Other (please specify)  
The wastewater treatment plant itself

**Q8: Which category best describes your biomass feedstocks?** Municipal organic waste

**Q9: What is the cost of feedstocks per ton? If PAID to receive feedstocks indicate with a negative price. If landfill expenses are avoided by utilizing your own waste stream, consider yourself 'paid' and indicate a negative price.** -6.5 cents/gallon

**Q10: How many tons per day are processed?** 20 - 25 thousand gallons/day

**Q11: Which best describes your facility process?** Anaerobic digestion (wet)



<b>Q12: Is this a CHP facility?</b>	Yes
<b>Q13: What are the DAILY outputs of your facility?</b> KW's of electricity cubic feet of gas	~650 500,000
<b>Q14: Which best describes the residuals from your facility?</b>	Other (please specify) Biosolids
<b>Q15: Are the residuals</b>	Other (please specify) used as backfill at a gypsum mining site
<b>Q16: If the residuals create income, how much per ton? If they are an expense, how much per ton (indicate using negative numbers) If used on site, or donated, please describe how, or to whom.</b>	-48.50 dollars/ton
<b>Q17: Where do the residuals from your facility go?</b>	Other (please specify) used to backfill mining holes at a gypsum mine
<b>Q18: Has a chemical analysis been performed on your residuals?</b>	Yes, and I can share the information
<b>Q19: Are the residuals safe to use as a soil amendment?</b>	Yes, only organic materials are used
<b>Q20: How many tons of residuals are created each day?</b>	200
<b>Q21: Which portions of municipal organic waste are compatible with your existing equipment?</b>	FOG
<b>Q22: What are the barriers to using ONLY organic materials in your facility?</b>	no barriers, incompatible with existing equipment, lower btu content, insufficient local supply, contamination concerns, Other (please specify) We will try anything that will produce gas in our digesters, but will not sacrifice treatment process. If we think that the material will work for us, we will give it a try. If not, the waste stream is denied.
<b>Q23: List any major policy or regulatory barriers to your facility operations.</b>	Department of Food and Agriculture
<b>Q24: Which policies or regulations have facilitated your operations?</b>	Federal or State grants, secured loans, tax credits, or other financial incentives , Other (please specify) City Council edict that the facility be run at 100% renewable energy

**Q25: Rank the following in terms of their importance to your bottom line.**

Cost of (or income from) feedstocks	3
Value of Energy	2
Cost of (or income from) residual disposal	4
Other (please specify in next question)	1

**Q26: Describe the 'other' factor important to your bottom line.**

Number one goal is to be compliant with our discharge permit

**Q27: How would the following future scenarios affect your company?**

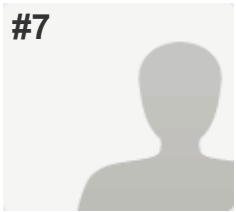
A Carbon Tax	Other
Consumer demand for renewable energy	Other
Higher landfill tipping fees	Will hurt
Rising energy prices	Will help
Technological breakthroughs in the industry	Will help
Stricter emissions standards	Will hurt
Lower energy prices	Will hurt
Higher value of residuals	Will hurt
Other plausible scenario? (Describe in the next question)	Other
Other (please specify)	engine compliance and performance

**Q28: Describe another plausible scenario that would significantly affect the company?**

More projects like this one that will force competition with tipping fees.

**Q29: Are you willing to receive follow up questions after this survey?**

Yes



**COMPLETE**

**Collector:** Email Invitation 1 (Email)  
**Started:** Wednesday, January 27, 2016 3:51:14 PM  
**Last Modified:** Wednesday, January 27, 2016 3:53:40 PM  
**Time Spent:** 00:02:26  
**Email:** Levans@Covanta.com  
**IP Address:** 205.173.16.5

**PAGE 1: Bioenergy facilities: Sustainability Research**

**Q1: Contact Information**

Facility Name	dfdsfddfd
Company Name	fdfdfdf
Address	fdfdfdf
Address 2	fdfdfdf
City/Town	ddfdd
ZIP/Postal Code	fdfdf
Email Address	dfd
Phone Number	fdf

**Q2: Who owns this facility? (Name of Organization or individual)** dfd

**Q3: What type of organization are they?** Industry/Commercial operation

**Q4: Approximately how large is the facility, in acres?** dfdf

**Q5: What is the primary purpose of this facility?** Waste Management solution

**Q6: Other desired outcomes from the facility? (Choose all that apply)** Regulatory Compliance, Other (please specify) d

**Q7: Who is the end user of surplus energy created?** Local Industry/Commercial Operation

**Q8: Which category best describes your biomass feedstocks?** Dedicated biomass crop

**Q9: What is the cost of feedstocks per ton? If PAID to receive feedstocks indicate with a negative price. If landfill expenses are avoided by utilizing your own waste stream, consider yourself 'paid' and indicate a negative price.** dfd

**Q10: How many tons per day are processed?** dfd

**Q11: Which best describes your facility process?** Other (please specify) dfdfdf

**Q12: Is this a CHP facility?** Yes

**Q13: What are the DAILY outputs of your facility?**  
 lbs of steam dfdfdf

<b>Q14: Which best describes the residuals from your facility?</b>	compost
<b>Q15: Are the residuals</b>	Other (please specify) dfdfdf
<b>Q16: If the residuals create income, how much per ton? If they are an expense, how much per ton (indicate using negative numbers) If used on site, or donated, please describe how, or to whom.</b>	dfdfdf
<b>Q17: Where do the residuals from your facility go?</b>	local farm
<b>Q18: Has a chemical analysis been performed on your residuals?</b>	Yes, and I can share the information
<b>Q19: Are the residuals safe to use as a soil amendment?</b>	<i>Respondent skipped this question</i>
<b>Q20: How many tons of residuals are created each day?</b>	dfdd
<b>Q21: Which portions of municipal organic waste are compatible with your existing equipment?</b>	FOG
<b>Q22: What are the barriers to using ONLY organic materials in your facility?</b>	contamination concerns
<b>Q23: List any major policy or regulatory barriers to your facility operations.</b>	<i>Respondent skipped this question</i>
<b>Q24: Which policies or regulations have facilitated your operations?</b>	Waste disposal regulations
<b>Q25: Rank the following in terms of their importance to your bottom line.</b>	
Other (please specify in next question)	2
<b>Q26: Describe the 'other' factor important to your bottom line.</b>	dfd
<b>Q27: How would the following future scenarios affect your company?</b>	
A Carbon Tax	This Won't Happen
Consumer demand for renewable energy	This Won't Happen
Higher landfill tipping fees	This Won't Happen
Rising energy prices	This Won't Happen
Technological breakthroughs in the industry	This Won't Happen
Stricter emissions standards	This Won't Happen
Lower energy prices	This Won't Happen
Higher value of residuals	This Won't Happen
Other plausible scenario? (Describe in the next question)	This Won't Happen
Other (please specify)	dfd

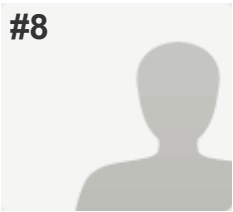
**Q28: Describe another plausible scenario that would significantly affect the company?** dfd

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**Q29: Are you willing to receive follow up questions after this survey?** Yes

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#8

**COMPLETE****Collector:** Email Invitation 1 (Email)**Started:** Thursday, January 28, 2016 5:54:39 AM**Last Modified:** Thursday, January 28, 2016 6:02:00 AM**Time Spent:** 00:07:21**Email:** jherrick@pocatello.us**IP Address:** 205.185.94.194**PAGE 1: Bioenergy facilities: Sustainability Research****Q1: Contact Information**

Facility Name	Pocatello Water Pollution Control plant
Company Name	City of Pocatello
Address	PO Box 4169
Address 2	10733 North Rio Vista
City/Town	Pocatello
State/Province	ID
ZIP/Postal Code	83205
Email Address	jherrick@pocatello.us
Phone Number	208-234-6254

**Q2: Who owns this facility? (Name of Organization or individual)** City of Pocatello

**Q3: What type of organization are they?** Government Entity

**Q4: Approximately how large is the facility, in acres?** 10

**Q5: What is the primary purpose of this facility?** Other (please specify) Wastewater treatment plant

**Q6: Other desired outcomes from the facility? (Choose all that apply)** Regulatory Compliance

**Q7: Who is the end user of surplus energy created?** Local Utility (Grid)

**Q8: Which category best describes your biomass feedstocks?** Municipal organic waste

**Q9: What is the cost of feedstocks per ton? If PAID to receive feedstocks indicate with a negative price. If landfill expenses are avoided by utilizing your own waste stream, consider yourself 'paid' and indicate a negative price.** 0

**Q10: How many tons per day are processed?** 0

**Q11: Which best describes your facility process?** Anaerobic digestion (wet)

**Q12: Is this a CHP facility?** Respondent skipped this question

<b>Q13: What are the DAILY outputs of your facility?</b> KW's of electricity	150
<b>Q14: Which best describes the residuals from your facility?</b>	Other (please specify) Biosoldis
<b>Q15: Are the residuals</b>	Other (please specify) Agricultural use
<b>Q16: If the residuals create income, how much per ton? If they are an expense, how much per ton (indicate using negative numbers) If used on site, or donated, please describe how, or to whom.</b>	0
<b>Q17: Where do the residuals from your facility go?</b>	local farm
<b>Q18: Has a chemical analysis been performed on your residuals?</b>	Yes, and I can share the information
<b>Q19: Are the residuals safe to use as a soil amendment?</b>	Yes, only organic materials are used
<b>Q20: How many tons of residuals are created each day?</b>	4
<b>Q21: Which portions of municipal organic waste are compatible with your existing equipment?</b>	FOG
<b>Q22: What are the barriers to using ONLY organic materials in your facility?</b>	incompatible with existing equipment
<b>Q23: List any major policy or regulatory barriers to your facility operations.</b>	0
<b>Q24: Which policies or regulations have facilitated your operations?</b>	Other (please specify) 0
<b>Q25: Rank the following in terms of their importance to your bottom line.</b>	
Cost of (or income from) feedstocks	3
Value of Energy	1
Cost of (or income from) residual disposal	2
<b>Q26: Describe the 'other' factor important to your bottom line.</b>	<i>Respondent skipped this question</i>

**Q27: How would the following future scenarios affect your company?**

A Carbon Tax	Will help
Consumer demand for renewable energy	Will help
Higher landfill tipping fees	Other
Rising energy prices	Will help
Technological breakthroughs in the industry	Will help
Stricter emissions standards	Other
Lower energy prices	Other
Higher value of residuals	Will help

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**Q28: Describe another plausible scenario that would significantly affect the company?**

*Respondent skipped this question*

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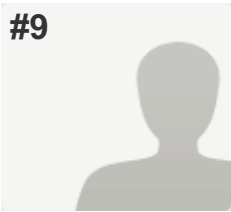
**Q29: Are you willing to receive follow up questions after this survey?**

Yes

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#9

**COMPLETE****Collector:** Email Invitation 1 (Email)**Started:** Thursday, January 28, 2016 7:55:40 AM**Last Modified:** Thursday, January 28, 2016 8:55:20 AM**Time Spent:** 00:59:39**Email:** Greig.Grotecloss@tampagov.net**IP Address:** 198.199.209.76**PAGE 1: Bioenergy facilities: Sustainability Research****Q1: Contact Information**

Facility Name	McKay Bay Refuse-to-Energy Facility
Company Name	City of Tampa/WMB
Address	107 N. 34th St.
City/Town	Tampa
State/Province	FL
ZIP/Postal Code	33605
Email Address	greig.grotecloss@tampagov.net
Phone Number	(813) 242-5408

**Q2: Who owns this facility? (Name of Organization or individual)** City of Tampa

**Q3: What type of organization are they?** Government Entity

**Q4: Approximately how large is the facility, in acres?** 8

**Q5: What is the primary purpose of this facility?** Waste Management solution

**Q6: Other desired outcomes from the facility? (Choose all that apply)** Odor Control, Regulatory Compliance, Other (please specify) Recover/recycle ferrous and non ferrous metals and the heat energy from MSW and destroy organic fraction of the waste.

**Q7: Who is the end user of surplus energy created?** Local Utility (Grid)

**Q8: Which category best describes your biomass feedstocks?** Municipal solid waste

**Q9: What is the cost of feedstocks per ton? If PAID to receive feedstocks indicate with a negative price. If landfill expenses are avoided by utilizing your own waste stream, consider yourself 'paid' and indicate a negative price.** -\$71.00/ton

**Q10: How many tons per day are processed?** 1,000

**Q11: Which best describes your facility process?** Incineration

**Q12: Is this a CHP facility?** Unsure

<b>Q13: What are the DAILY outputs of your facility?</b> KW's of electricity	22,500
<b>Q14: Which best describes the residuals from your facility?</b>	Ash
<b>Q15: Are the residuals</b>	Landfilled
<b>Q16: If the residuals create income, how much per ton? If they are an expense, how much per ton (indicate using negative numbers) If used on site, or donated, please describe how, or to whom.</b>	<i>Respondent skipped this question</i>
<b>Q17: Where do the residuals from your facility go?</b>	Landfill
<b>Q18: Has a chemical analysis been performed on your residuals?</b>	Yes, and I can share the information
<b>Q19: Are the residuals safe to use as a soil amendment?</b>	No, too much contamination
<b>Q20: How many tons of residuals are created each day?</b>	about 250 TPD
<b>Q21: Which portions of municipal organic waste are compatible with your existing equipment?</b>	Food scraps, grass clippings/ leaf litter , woody waste (tree and shrub clippings) , soiled paper
<b>Q22: What are the barriers to using ONLY organic materials in your facility?</b>	no barriers, Other (please specify) facility designed for 4800 BTU/lb fuel
<b>Q23: List any major policy or regulatory barriers to your facility operations.</b>	The possibility of EPA changing emission standards so the facility has to retrofit prior to paying off the existing bonds (20 year bonds).None.
<b>Q24: Which policies or regulations have facilitated your operations?</b>	Other (please specify) None currently. A renewable energy requirement for utilities would be great, but FL does not have one.
<b>Q25: Rank the following in terms of their importance to your bottom line.</b>	
Cost of (or income from) feedstocks	3
Value of Energy	2
Cost of (or income from) residual disposal	4
Other (please specify in next question)	1
<b>Q26: Describe the 'other' factor important to your bottom line.</b>	Bond costs.

**Q27: How would the following future scenarios affect your company?**

A Carbon Tax	Will hurt
Consumer demand for renewable energy	Will help
Higher landfill tipping fees	Will help
Rising energy prices	Will help
Technological breakthroughs in the industry	Other
Stricter emissions standards	Will hurt
Lower energy prices	Will hurt
Higher value of residuals	Will help
Other plausible scenario? (Describe in the next question)	Will help
Other (please specify)	No direct effect on existing facilities unless they drastically increase or decrease waste disposal costs in general.

**Q28: Describe another plausible scenario that would significantly affect the company?**

High recycling mandates without giving credit for WTE.

**Q29: Are you willing to receive follow up questions after this survey?**

Yes

#10

**COMPLETE****Collector:** Email Invitation 1 (Email)**Started:** Thursday, January 28, 2016 9:17:50 AM**Last Modified:** Thursday, January 28, 2016 9:39:00 AM**Time Spent:** 00:21:10**Email:** Gregory.Wiggins@avistacorp.com**IP Address:** 198.181.18.22**PAGE 1: Bioenergy facilities: Sustainability Research****Q1: Contact Information**

Facility Name	Kettle Falls Generating Station
Company Name	Avista Utilities
Address	P.O. Box 1022
City/Town	Kettle Falls
State/Province	WA
ZIP/Postal Code	99141
Email Address	gregory.wiggins@avistacorp.com
Phone Number	509-738-1505

**Q2: Who owns this facility? (Name of Organization or individual)** Avista Utilities

**Q3: What type of organization are they?** Energy producer/supplier

**Q4: Approximately how large is the facility, in acres?** 50

**Q5: What is the primary purpose of this facility?** Create Energy Product (biogas, electricity, heat, biofuel)

**Q6: Other desired outcomes from the facility? (Choose all that apply)** Create local jobs,  
Other (please specify)  
Provide alternative to dispose of wood waste in compliance with the Clean Air Act

**Q7: Who is the end user of surplus energy created?** Local Utility (Grid)

**Q8: Which category best describes your biomass feedstocks?** Other (please specify) Mill wood waste

**Q9: What is the cost of feedstocks per ton? If PAID to receive feedstocks indicate with a negative price. If landfill expenses are avoided by utilizing your own waste stream, consider yourself 'paid' and indicate a negative price.** \$ ..

**Q10: How many tons per day are processed?** 1800

**Q11: Which best describes your facility process?** Incineration

**Q12: Is this a CHP facility?** No

<b>Q13: What are the DAILY outputs of your facility?</b>	
lbs of steam	9,960,000
KW's of electricity	1,200,000
cubic feet of gas	0
<b>Q14: Which best describes the residuals from your facility?</b>	Ash
<b>Q15: Are the residuals</b>	Landfilled
<b>Q16: If the residuals create income, how much per ton? If they are an expense, how much per ton (indicate using negative numbers) If used on site, or donated, please describe how, or to whom.</b>	We own our landfill, minimal costs per ton expense
<b>Q17: Where do the residuals from your facility go?</b>	Landfill
<b>Q18: Has a chemical analysis been performed on your residuals?</b>	Yes, and I cannot share the information
<b>Q19: Are the residuals safe to use as a soil amendment?</b>	Yes, only organic materials are used
<b>Q20: How many tons of residuals are created each day?</b>	60
<b>Q21: Which portions of municipal organic waste are compatible with your existing equipment?</b>	woody waste (tree and shrub clippings)
<b>Q22: What are the barriers to using ONLY organic materials in your facility?</b>	no barriers, insufficient local supply
<b>Q23: List any major policy or regulatory barriers to your facility operations.</b>	This facility became part of the companies renewable portfolio in 2016
<b>Q24: Which policies or regulations have facilitated your operations?</b>	Renewable Energy Portfolio requirements for utilities
<b>Q25: Rank the following in terms of their importance to your bottom line.</b>	
Cost of (or income from) feedstocks	2
Value of Energy	1
Cost of (or income from) residual disposal	4
Other (please specify in next question)	3
<b>Q26: Describe the 'other' factor important to your bottom line.</b>	REC's

**Q27: How would the following future scenarios affect your company?**

A Carbon Tax	Will hurt
Consumer demand for renewable energy	Will help
Higher landfill tipping fees	This Won't Happen
Rising energy prices	Will help
Technological breakthroughs in the industry	Will help
Stricter emissions standards	Will hurt
Lower energy prices	Will hurt
Higher value of residuals	Other
Other plausible scenario? (Describe in the next question)	Other

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**Q28: Describe another plausible scenario that would significantly affect the company?**

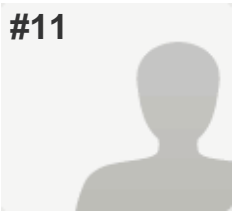
Forest health and area saw mill production

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**Q29: Are you willing to receive follow up questions after this survey?**

Yes

#11

**COMPLETE****Collector:** Email Invitation 1 (Email)**Started:** Friday, January 29, 2016 9:29:34 AM**Last Modified:** Friday, January 29, 2016 9:43:36 AM**Time Spent:** 00:14:01**Email:** draderstorf@rakrfarms.com**IP Address:** 69.171.120.254

## PAGE 1: Bioenergy facilities: Sustainability Research

**Q1: Contact Information**

Facility Name	Waste No Energy, LLC
Company Name	Waste No Energy, LLC
Address	300 S 800 E
City/Town	Monticello
State/Province	IN
ZIP/Postal Code	47960
Email Address	draderstorf@rakrfarms.com
Phone Number	5745836646

**Q2: Who owns this facility? (Name of Organization or individual)** RAKR Farms, Inc. majority owner & 3 minority individual owners

**Q3: What type of organization are they?** Agricultural

**Q4: Approximately how large is the facility, in acres?** 12

**Q5: What is the primary purpose of this facility?** Create Energy Product (biogas, electricity, heat, biofuel)

**Q6: Other desired outcomes from the facility? (Choose all that apply)** Produce Soil Amendment,  
Cost Reductions/Revenue enhancement

**Q7: Who is the end user of surplus energy created?** Local Utility (Grid)

**Q8: Which category best describes your biomass feedstocks?** Industrial/commercial organic waste

**Q9: What is the cost of feedstocks per ton? If PAID to receive feedstocks indicate with a negative price. If landfill expenses are avoided by utilizing your own waste stream, consider yourself 'paid' and indicate a negative price.** -7.30

**Q10: How many tons per day are processed?** 126

**Q11: Which best describes your facility process?** Anaerobic digestion (wet)

**Q12: Is this a CHP facility?** Yes

<b>Q13: What are the DAILY outputs of your facility?</b> KW's of electricity	1059
<b>Q14: Which best describes the residuals from your facility?</b>	Slurry
<b>Q15: Are the residuals</b>	Other (please specify) applied as fertilizer to crop land
<b>Q16: If the residuals create income, how much per ton? If they are an expense, how much per ton (indicate using negative numbers) If used on site, or donated, please describe how, or to whom.</b>	\$.03/gallon
<b>Q17: Where do the residuals from your facility go?</b>	local farm
<b>Q18: Has a chemical analysis been performed on your residuals?</b>	Yes, and I can share the information
<b>Q19: Are the residuals safe to use as a soil amendment?</b>	Yes, only organic materials are used
<b>Q20: How many tons of residuals are created each day?</b>	33,250 gallons
<b>Q21: Which portions of municipal organic waste are compatible with your existing equipment?</b>	FOG
<b>Q22: What are the barriers to using ONLY organic materials in your facility?</b>	no barriers
<b>Q23: List any major policy or regulatory barriers to your facility operations.</b>	IDEM classifies us as an industrial waste facility. No classification for organic waste processing facilities.
<b>Q24: Which policies or regulations have facilitated your operations?</b>	Federal or State grants, secured loans, tax credits, or other financial incentives , Waste disposal regulations, Renewable Energy Portfolio requirements for utilities
<b>Q25: Rank the following in terms of their importance to your bottom line.</b>	
Cost of (or income from) feedstocks	3
Value of Energy	1
Cost of (or income from) residual disposal	2
<b>Q26: Describe the 'other' factor important to your bottom line.</b>	<i>Respondent skipped this question</i>



**Q27: How would the following future scenarios affect your company?**

A Carbon Tax	Will help
Consumer demand for renewable energy	Will help
Higher landfill tipping fees	Will help
Rising energy prices	Will help
Technological breakthroughs in the industry	Will help
Stricter emissions standards	Will help
Lower energy prices	Will hurt
Higher value of residuals	Will help
Other plausible scenario? (Describe in the next question)	Will help
Other (please specify)	restrictions on organic waste to landfills

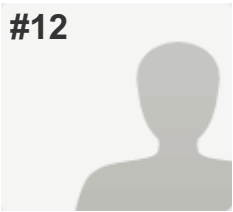
**Q28: Describe another plausible scenario that would significantly affect the company?**

national or world wide refusal to use renewable energy

**Q29: Are you willing to receive follow up questions after this survey?**

Yes

#12

**COMPLETE****Collector:** Email Invitation 1 (Email)**Started:** Wednesday, February 17, 2016 11:49:36 AM**Last Modified:** Wednesday, February 17, 2016 11:54:36 AM**Time Spent:** 00:04:59**Email:** mark.driscoll@gdfsuezna.com**IP Address:** 38.112.162.55

## PAGE 1: Bioenergy facilities: Sustainability Research

**Q1: Contact Information**

Facility Name	Pinetree Power, Inc. Bethlehem
Company Name	GDF SUEZ
Address	1241 Whitefield Road
City/Town	Bethlehem
State/Province	NH
ZIP/Postal Code	03574
Email Address	mark.driscoll@gdfsuezna.com
Phone Number	603-444-9993

**Q2: Who owns this facility? (Name of Organization or individual)**

GDF SUEZ

**Q3: What type of organization are they?**

Energy producer/supplier

**Q4: Approximately how large is the facility, in acres?**

72

**Q5: What is the primary purpose of this facility?**

Create Energy Product (biogas, electricity, heat, biofuel)

**Q6: Other desired outcomes from the facility? (Choose all that apply)**

Create local jobs

**Q7: Who is the end user of surplus energy created?**

Local Utility (Grid)

**Q8: Which category best describes your biomass feedstocks?**

Other (please specify) Whole tree chips

**Q9: What is the cost of feedstocks per ton? If PAID to receive feedstocks indicate with a negative price. If landfill expenses are avoided by utilizing your own waste stream, consider yourself 'paid' and indicate a negative price.**

\$30

**Q10: How many tons per day are processed?**

670

**Q11: Which best describes your facility process?**

Other (please specify) Stoker fired

**Q12: Is this a CHP facility?**

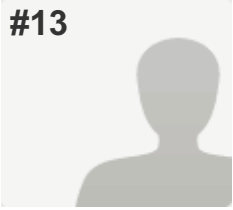
No

<b>Q13: What are the DAILY outputs of your facility?</b>	
KW's of electricity	360000
<b>Q14: Which best describes the residuals from your facility?</b>	Ash
<b>Q15: Are the residuals</b>	sold
<b>Q16: If the residuals create income, how much per ton? If they are an expense, how much per ton (indicate using negative numbers) If used on site, or donated, please describe how, or to whom.</b>	<i>Respondent skipped this question</i>
<b>Q17: Where do the residuals from your facility go?</b>	local farm
<b>Q18: Has a chemical analysis been performed on your residuals?</b>	Yes, and I can share the information
<b>Q19: Are the residuals safe to use as a soil amendment?</b>	Yes, only organic materials are used
<b>Q20: How many tons of residuals are created each day?</b>	12
<b>Q21: Which portions of municipal organic waste are compatible with your existing equipment?</b>	woody waste (tree and shrub clippings)
<b>Q22: What are the barriers to using ONLY organic materials in your facility?</b>	insufficient local supply, lower btu content
<b>Q23: List any major policy or regulatory barriers to your facility operations.</b>	<i>Respondent skipped this question</i>
<b>Q24: Which policies or regulations have facilitated your operations?</b>	Renewable Energy Portfolio requirements for utilities
<b>Q25: Rank the following in terms of their importance to your bottom line.</b>	
Value of Energy	1
Cost of (or income from) residual disposal	4
<b>Q26: Describe the 'other' factor important to your bottom line.</b>	<i>Respondent skipped this question</i>
<b>Q27: How would the following future scenarios affect your company?</b>	
A Carbon Tax	This Won't Happen
Higher landfill tipping fees	Will help
Rising energy prices	Will help
Technological breakthroughs in the industry	Will help
Stricter emissions standards	Will hurt
Lower energy prices	Will hurt
<b>Q28: Describe another plausible scenario that would significantly affect the company?</b>	<i>Respondent skipped this question</i>

**Q29: Are you willing to receive follow up questions after this survey?** Yes

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#13

**COMPLETE****Collector:** Email Invitation 1 (Email)**Started:** Wednesday, February 17, 2016 12:01:29 PM**Last Modified:** Wednesday, February 17, 2016 12:25:12 PM**Time Spent:** 00:23:42**Email:** jweber@sauder.com**IP Address:** 198.24.125.66**PAGE 1: Bioenergy facilities: Sustainability Research****Q1: Contact Information**

Facility Name	Sauder Power Plant
Company Name	Sauder Woodworking Co
Address 2	502 Middle St
City/Town	Archbold
State/Province	OH
ZIP/Postal Code	43502
Email Address	jweber@sauder.com
Phone Number	4194462711

**Q2: Who owns this facility? (Name of Organization or individual)** Sauder Woodworking Co

**Q3: What type of organization are they?** Industry/Commercial operation

**Q4: Approximately how large is the facility, in acres?** 2 acres

**Q5: What is the primary purpose of this facility?** Create Energy Product (biogas, electricity, heat, biofuel)

**Q6: Other desired outcomes from the facility? (Choose all that apply)** Cost Reductions/Revenue enhancement

**Q7: Who is the end user of surplus energy created?** Local Utility (Grid)

**Q8: Which category best describes your biomass feedstocks?** Other (please specify)  
Biomass wood dust from mfg plant

**Q9: What is the cost of feedstocks per ton? If PAID to receive feedstocks indicate with a negative price. If landfill expenses are avoided by utilizing your own waste stream, consider yourself 'paid' and indicate a negative price.** -30

**Q10: How many tons per day are processed?** 172

**Q11: Which best describes your facility process?** Incineration

**Q12: Is this a CHP facility?** No

<b>Q13: What are the DAILY outputs of your facility?</b> KW's of electricity	100,000 KW
<b>Q14: Which best describes the residuals from your facility?</b>	Ash
<b>Q15: Are the residuals</b>	Landfilled
<b>Q16: If the residuals create income, how much per ton? If they are an expense, how much per ton (indicate using negative numbers) If used on site, or donated, please describe how, or to whom.</b>	-40
<b>Q17: Where do the residuals from your facility go?</b>	Landfill
<b>Q18: Has a chemical analysis been performed on your residuals?</b>	Yes, and I can share the information
<b>Q19: Are the residuals safe to use as a soil amendment?</b>	Yes, only organic materials are used
<b>Q20: How many tons of residuals are created each day?</b>	1.7
<b>Q21: Which portions of municipal organic waste are compatible with your existing equipment?</b>	woody waste (tree and shrub clippings)
<b>Q22: What are the barriers to using ONLY organic materials in your facility?</b>	no barriers
<b>Q23: List any major policy or regulatory barriers to your facility operations.</b>	Title V Boiler MACT
<b>Q24: Which policies or regulations have facilitated your operations?</b>	Waste disposal regulations
<b>Q25: Rank the following in terms of their importance to your bottom line.</b>	
Cost of (or income from) feedstocks	1
Value of Energy	4
Cost of (or income from) residual disposal	2
<b>Q26: Describe the 'other' factor important to your bottom line.</b>	<i>Respondent skipped this question</i>

**Q27: How would the following future scenarios affect your company?**

A Carbon Tax	Will hurt
Consumer demand for renewable energy	Will help
Higher landfill tipping fees	Will hurt
Rising energy prices	Will hurt, Will help
Technological breakthroughs in the industry	Will help
Stricter emissions standards	Will hurt
Lower energy prices	Will hurt, Will help
Higher value of residuals	Will help

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**Q28: Describe another plausible scenario that would significantly affect the company?**

*Respondent skipped this question*

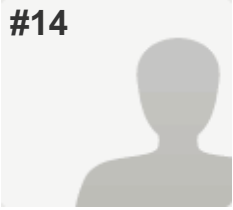
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**Q29: Are you willing to receive follow up questions after this survey?**

Yes

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#14

**COMPLETE****Collector:** Email Invitation 1 (Email)**Started:** Wednesday, February 17, 2016 12:26:24 PM**Last Modified:** Wednesday, February 17, 2016 12:36:14 PM**Time Spent:** 00:09:50**Email:** neil.taratuta@gdfsuezna.com**IP Address:** 38.112.162.55

## PAGE 1: Bioenergy facilities: Sustainability Research

**Q1: Contact Information**

Facility Name	Viking Energy of Lincoln
Company Name	509 W. State St.
City/Town	Lincoln
State/Province	MI
ZIP/Postal Code	48742
Email Address	neil.taratuta@gdfsuezna.com
Phone Number	989-736-6618

**Q2: Who owns this facility? (Name of Organization or individual)** GDF Suez NA

**Q3: What type of organization are they?** Energy producer/supplier

**Q4: Approximately how large is the facility, in acres?** 15

**Q5: What is the primary purpose of this facility?** Create Energy Product (biogas, electricity, heat, biofuel)

**Q6: Other desired outcomes from the facility? (Choose all that apply)** Regulatory Compliance,  
Cost Reductions/Revenue enhancement,  
Create local jobs

**Q7: Who is the end user of surplus energy created?** Local Utility (Grid)

**Q8: Which category best describes your biomass feedstocks?** Other (please specify)  
wood waste from logging operation

**Q9: What is the cost of feedstocks per ton? If PAID to receive feedstocks indicate with a negative price. If landfill expenses are avoided by utilizing your own waste stream, consider yourself 'paid' and indicate a negative price.** 26

**Q10: How many tons per day are processed?** 550

**Q11: Which best describes your facility process?** Incineration

**Q12: Is this a CHP facility?** No



<b>Q13: What are the DAILY outputs of your facility?</b>	
lbs of steam	3900,000
KW's of electricity	400,000
<b>Q14: Which best describes the residuals from your facility?</b>	Ash
<b>Q15: Are the residuals</b>	Landfilled
<b>Q16: If the residuals create income, how much per ton? If they are an expense, how much per ton (indicate using negative numbers) If used on site, or donated, please describe how, or to whom.</b>	<i>Respondent skipped this question</i>
<b>Q17: Where do the residuals from your facility go?</b>	Landfill
<b>Q18: Has a chemical analysis been performed on your residuals?</b>	Yes, and I can share the information
<b>Q19: Are the residuals safe to use as a soil amendment?</b>	No, too much contamination
<b>Q20: How many tons of residuals are created each day?</b>	12
<b>Q21: Which portions of municipal organic waste are compatible with your existing equipment?</b>	woody waste (tree and shrub clippings)
<b>Q22: What are the barriers to using ONLY organic materials in your facility?</b>	no barriers
<b>Q23: List any major policy or regulatory barriers to your facility operations.</b>	<i>Respondent skipped this question</i>
<b>Q24: Which policies or regulations have facilitated your operations?</b>	Renewable Energy Portfolio requirements for utilities
<b>Q25: Rank the following in terms of their importance to your bottom line.</b>	
Cost of (or income from) feedstocks	2
Value of Energy	1
Cost of (or income from) residual disposal	3
<b>Q26: Describe the 'other' factor important to your bottom line.</b>	<i>Respondent skipped this question</i>

**Q27: How would the following future scenarios affect your company?**

A Carbon Tax	Will help
Consumer demand for renewable energy	Will help
Higher landfill tipping fees	Will hurt
Rising energy prices	Will help
Technological breakthroughs in the industry	Will help
Stricter emissions standards	Will help
Lower energy prices	Will hurt
Higher value of residuals	Will hurt

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**Q28: Describe another plausible scenario that would significantly affect the company?**

*Respondent skipped this question*

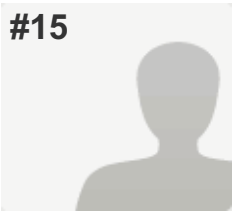
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**Q29: Are you willing to receive follow up questions after this survey?**

Yes

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#15

**COMPLETE****Collector:** Email Invitation 1 (Email)**Started:** Wednesday, February 17, 2016 1:31:55 PM**Last Modified:** Wednesday, February 17, 2016 2:08:02 PM**Time Spent:** 00:36:06**Email:** annas@hcsugar.com**IP Address:** 64.128.6.62**PAGE 1: Bioenergy facilities: Sustainability Research****Q1: Contact Information**

Facility Name	Puunene Mill
Company Name	Hawaiian Commercial & Sugar Co.
Address	PO Box 261
Address 2	1 Hansen Road
City/Town	Puunene
State/Province	HI
ZIP/Postal Code	96784
Email Address	askrobecki@hcsugar.com
Phone Number	808-877-2947

**Q2: Who owns this facility? (Name of Organization or individual)** Alexander & Baldwin, Inc

**Q3: What type of organization are they?** Other (please specify)  
Real Estate Development & infrastructure construction

**Q4: Approximately how large is the facility, in acres?** 36,000 (HC&S plantation)

**Q5: What is the primary purpose of this facility?** Other (please specify) raw sugar manufacture

**Q6: Other desired outcomes from the facility? (Choose all that apply)** Create local jobs

**Q7: Who is the end user of surplus energy created?** Local Utility (Grid)

**Q8: Which category best describes your biomass feedstocks?** Other (please specify) sugar cane

**Q9: What is the cost of feedstocks per ton? If PAID to receive feedstocks indicate with a negative price. If landfill expenses are avoided by utilizing your own waste stream, consider yourself 'paid' and indicate a negative price.** molasses by-product sold @ \$80.00/ton

**Q10: How many tons per day are processed?** approximately 5000 tons net cane

**Q11: Which best describes your facility process?** Other (please specify) milling

**Q12: Is this a CHP facility?** Unsure

<b>Q13: What are the DAILY outputs of your facility?</b>	
lbs of steam	11,000 k#
KW's of electricity	varies by demand, but up to 625,000/day
cubic feet of gas	na
<b>Q14: Which best describes the residuals from your facility?</b>	Other (please specify) molasses and bagasse
<b>Q15: Are the residuals</b>	Other (please specify) molasses is sold, bagasse is burned as fuel
<b>Q16: If the residuals create income, how much per ton? If they are an expense, how much per ton (indicate using negative numbers) If used on site, or donated, please describe how, or to whom.</b>	bagasse is burned to generate steam & power, molasses is sold @ \$80.00/ton
<b>Q17: Where do the residuals from your facility go?</b>	Other (please specify) molasses is used for livestock feed and soil enrichment
<b>Q18: Has a chemical analysis been performed on your residuals?</b>	Yes, and I can share the information
<b>Q19: Are the residuals safe to use as a soil amendment?</b>	Yes, only organic materials are used
<b>Q20: How many tons of residuals are created each day?</b>	varies, approx 2000 tons bagasse and 180 tons molasses
<b>Q21: Which portions of municipal organic waste are compatible with your existing equipment?</b>	<i>Respondent skipped this question</i>
<b>Q22: What are the barriers to using ONLY organic materials in your facility?</b>	<i>Respondent skipped this question</i>
<b>Q23: List any major policy or regulatory barriers to your facility operations.</b>	agricultural burning
<b>Q24: Which policies or regulations have facilitated your operations?</b>	Federal or State grants, secured loans, tax credits, or other financial incentives
<b>Q25: Rank the following in terms of their importance to your bottom line.</b>	
Cost of (or income from) feedstocks	3
Value of Energy	2
Cost of (or income from) residual disposal	4
Other (please specify in next question)	1
<b>Q26: Describe the 'other' factor important to your bottom line.</b>	domestic market price of raw sugar

**Q27: How would the following future scenarios affect your company?**

A Carbon Tax	Will hurt
Consumer demand for renewable energy	This Won't Happen
Higher landfill tipping fees	Other
Rising energy prices	Will hurt
Technological breakthroughs in the industry	Will help
Stricter emissions standards	Will hurt
Lower energy prices	Will help
Higher value of residuals	Will help

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**Q28: Describe another plausible scenario that would significantly affect the company?**

*Respondent skipped this question*

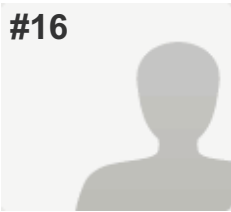
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**Q29: Are you willing to receive follow up questions after this survey?**

No

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#16



**COMPLETE**

**Collector:** Web Link 1 (Web Link)  
**Started:** Wednesday, February 24, 2016 3:53:37 PM  
**Last Modified:** Wednesday, February 24, 2016 4:01:45 PM  
**Time Spent:** 00:08:07  
**IP Address:** 174.19.221.147

PAGE 1: Bioenergy facilities: Sustainability Research

**Q1: Contact Information**

Facility Name	Covanta Haverhill Inc
Company Name	Covanta
Address	100 Recovery Way
City/Town	Haverhill
State/Province	MA
ZIP/Postal Code	01835
Email Address	Jlemar@covanta.com
Phone Number	(978) 372-6288

**Q2: Who owns this facility? (Name of Organization or individual)** Covanta

**Q3: What type of organization are they?** Energy producer/supplier

**Q4: Approximately how large is the facility, in acres?** don't know

**Q5: What is the primary purpose of this facility?** Create Energy Product (biogas, electricity, heat, biofuel)

**Q6: Other desired outcomes from the facility? (Choose all that apply)** Cost Reductions/Revenue enhancement

**Q7: Who is the end user of surplus energy created?** Local Utility (Grid)

**Q8: Which category best describes your biomass feedstocks?** Municipal solid waste

**Q9: What is the cost of feedstocks per ton? If PAID to receive feedstocks indicate with a negative price. If landfill expenses are avoided by utilizing your own waste stream, consider yourself 'paid' and indicate a negative price.** we're paid

**Q10: How many tons per day are processed?** 1650

**Q11: Which best describes your facility process?** Incineration

**Q12: Is this a CHP facility?** No

<b>Q13: What are the DAILY outputs of your facility?</b> KW's of electricity	Max is ~1200 Mw/day
<b>Q14: Which best describes the residuals from your facility?</b>	Ash
<b>Q15: Are the residuals</b>	Landfilled
<b>Q16: If the residuals create income, how much per ton? If they are an expense, how much per ton (indicate using negative numbers) If used on site, or donated, please describe how, or to whom.</b>	<i>Respondent skipped this question</i>
<b>Q17: Where do the residuals from your facility go?</b>	Landfill
<b>Q18: Has a chemical analysis been performed on your residuals?</b>	<i>Respondent skipped this question</i>
<b>Q19: Are the residuals safe to use as a soil amendment?</b>	No, too much contamination
<b>Q20: How many tons of residuals are created each day?</b>	~165
<b>Q21: Which portions of municipal organic waste are compatible with your existing equipment?</b>	woody waste (tree and shrub clippings), soiled paper
<b>Q22: What are the barriers to using ONLY organic materials in your facility?</b>	insufficient local supply
<b>Q23: List any major policy or regulatory barriers to your facility operations.</b>	<i>Respondent skipped this question</i>
<b>Q24: Which policies or regulations have facilitated your operations?</b>	<i>Respondent skipped this question</i>
<b>Q25: Rank the following in terms of their importance to your bottom line.</b>	
Cost of (or income from) feedstocks	1
Value of Energy	2
Cost of (or income from) residual disposal	3
<b>Q26: Describe the 'other' factor important to your bottom line.</b>	<i>Respondent skipped this question</i>

**Q27: How would the following future scenarios affect your company?**

A Carbon Tax	This Won't Happen
Consumer demand for renewable energy	This Won't Happen
Higher landfill tipping fees	Will help
Rising energy prices	Will help
Technological breakthroughs in the industry	This Won't Happen
Stricter emissions standards	Will hurt
Lower energy prices	Will hurt
Higher value of residuals	This Won't Happen

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**Q28: Describe another plausible scenario that would significantly affect the company?**

*Respondent skipped this question*

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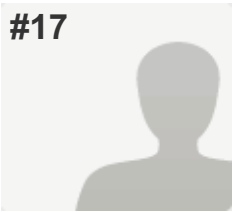
**Q29: Are you willing to receive follow up questions after this survey?**

No

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#17

**COMPLETE****Collector:** Email Invitation 2 (Email)**Started:** Wednesday, February 24, 2016 4:25:19 PM**Last Modified:** Wednesday, February 24, 2016 4:38:13 PM**Time Spent:** 00:12:54**Email:** drandklev@covanta.com**IP Address:** 205.173.16.5**PAGE 1: Bioenergy facilities: Sustainability Research****Q1: Contact Information**

Facility Name	Covanta Marion
Company Name	Covanta
Address	4850 Brooklake Rd
City/Town	Brooks
State/Province	OR
ZIP/Postal Code	97305
Email Address	drandkl;ev@covanta .com

**Q2: Who owns this facility? (Name of Organization or individual)** Covanta

**Q3: What type of organization are they?** Industry/Commercial operation

**Q4: Approximately how large is the facility, in acres?** 16

**Q5: What is the primary purpose of this facility?** Equal parts Energy and Waste Management

**Q6: Other desired outcomes from the facility? (Choose all that apply)** Odor Control, Regulatory Compliance, Cost Reductions/Revenue enhancement, Create local jobs

**Q7: Who is the end user of surplus energy created?** Local Utility (Grid)

**Q8: Which category best describes your biomass feedstocks?** Municipal solid waste

**Q9: What is the cost of feedstocks per ton? If PAID to receive feedstocks indicate with a negative price. If landfill expenses are avoided by utilizing your own waste stream, consider yourself 'paid' and indicate a negative price.** we work under an O&M contact

**Q10: How many tons per day are processed?** 550

**Q11: Which best describes your facility process?** Incineration

**Q12: Is this a CHP facility?** No

<b>Q13: What are the DAILY outputs of your facility?</b> KW's of electricity	13,000
<b>Q14: Which best describes the residuals from your facility?</b>	Ash
<b>Q15: Are the residuals</b>	Other (please specify) used as daily cover at Coffin Butte landfill
<b>Q16: If the residuals create income, how much per ton? If they are an expense, how much per ton (indicate using negative numbers) If used on site, or donated, please describe how, or to whom.</b>	county pays to dispose of ash as daily cover
<b>Q17: Where do the residuals from your facility go?</b>	Landfill
<b>Q18: Has a chemical analysis been performed on your residuals?</b>	Other (please specify) you would have to get the information from Marion county as they own the ash
<b>Q19: Are the residuals safe to use as a soil amendment?</b>	No, too much contamination
<b>Q20: How many tons of residuals are created each day?</b>	120
<b>Q21: Which portions of municipal organic waste are compatible with your existing equipment?</b>	Food scraps, FOG, grass clippings/ leaf litter , woody waste (tree and shrub clippings) , soiled paper
<b>Q22: What are the barriers to using ONLY organic materials in your facility?</b>	lower btu content, Other (please specify) permit issues
<b>Q23: List any major policy or regulatory barriers to your facility operations.</b>	<i>Respondent skipped this question</i>
<b>Q24: Which policies or regulations have facilitated your operations?</b>	Renewable Energy Portfolio requirements for utilities , Waste disposal regulations, Federal or State grants, secured loans, tax credits, or other financial incentives
<b>Q25: Rank the following in terms of their importance to your bottom line.</b>	
Cost of (or income from) feedstocks	1
Value of Energy	2
Cost of (or income from) residual disposal	3
<b>Q26: Describe the 'other' factor important to your bottom line.</b>	<i>Respondent skipped this question</i>

**Q27: How would the following future scenarios affect your company?**

A Carbon Tax	Will hurt
Consumer demand for renewable energy	Will help
Higher landfill tipping fees	Will help
Rising energy prices	Will help
Technological breakthroughs in the industry	Will help
Stricter emissions standards	Will hurt, Will help
Lower energy prices	Will hurt
Higher value of residuals	Will help

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**Q28: Describe another plausible scenario that would significantly affect the company?**

*Respondent skipped this question*

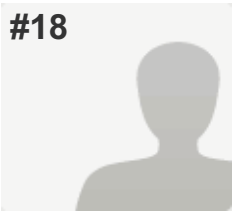
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**Q29: Are you willing to receive follow up questions after this survey?**

Yes

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#18

**COMPLETE****Collector:** Email Invitation 1 (Email)**Started:** Monday, March 14, 2016 4:50:18 PM**Last Modified:** Monday, March 14, 2016 5:11:41 PM**Time Spent:** 00:21:23**Email:** SMorton@greenleaf-power.com**IP Address:** 104.156.228.198**PAGE 1: Bioenergy facilities: Sustainability Research****Q1: Contact Information**

Facility Name	Desert View Power LLC
Company Name	Desert View Power LLC
Address	62-300 Gene Welmas Drive
City/Town	Mecca
State/Province	CA
ZIP/Postal Code	92254
Email Address	smorton@greenleaf-power.com
Phone Number	9165962510

**Q2: Who owns this facility? (Name of Organization or individual)** Desert View Power LLC

**Q3: What type of organization are they?** Energy producer/supplier

**Q4: Approximately how large is the facility, in acres?** 30

**Q5: What is the primary purpose of this facility?** Create Energy Product (biogas, electricity, heat, biofuel)

**Q6: Other desired outcomes from the facility? (Choose all that apply)** Create local jobs

**Q7: Who is the end user of surplus energy created?** Local Utility (Grid)

**Q8: Which category best describes your biomass feedstocks?** Municipal organic waste

**Q9: What is the cost of feedstocks per ton? If PAID to receive feedstocks indicate with a negative price. If landfill expenses are avoided by utilizing your own waste stream, consider yourself 'paid' and indicate a negative price.** \$15-\$20 per ton

**Q10: How many tons per day are processed?** 1,100

**Q11: Which best describes your facility process?** Incineration

**Q12: Is this a CHP facility?** No

<b>Q13: What are the DAILY outputs of your facility?</b>	
KW's of electricity	1,080,000
<b>Q14: Which best describes the residuals from your facility?</b>	Ash
<b>Q15: Are the residuals</b>	Landfilled
<b>Q16: If the residuals create income, how much per ton? If they are an expense, how much per ton (indicate using negative numbers) If used on site, or donated, please describe how, or to whom.</b>	\$(3.25)
<b>Q17: Where do the residuals from your facility go?</b>	Landfill
<b>Q18: Has a chemical analysis been performed on your residuals?</b>	Yes, and I cannot share the information
<b>Q19: Are the residuals safe to use as a soil amendment?</b>	Yes, only organic materials are used
<b>Q20: How many tons of residuals are created each day?</b>	165
<b>Q21: Which portions of municipal organic waste are compatible with your existing equipment?</b>	woody waste (tree and shrub clippings)
<b>Q22: What are the barriers to using ONLY organic materials in your facility?</b>	no barriers
<b>Q23: List any major policy or regulatory barriers to your facility operations.</b>	air permits
<b>Q24: Which policies or regulations have facilitated your operations?</b>	Waste disposal regulations, Renewable Energy Portfolio requirements for utilities
<b>Q25: Rank the following in terms of their importance to your bottom line.</b>	
Cost of (or income from) feedstocks	2
Value of Energy	1
Cost of (or income from) residual disposal	3
<b>Q26: Describe the 'other' factor important to your bottom line.</b>	<i>Respondent skipped this question</i>
<b>Q27: How would the following future scenarios affect your company?</b>	
Consumer demand for renewable energy	Will help
Higher landfill tipping fees	Other
Rising energy prices	Will help
Technological breakthroughs in the industry	Will help
Stricter emissions standards	Will hurt
Lower energy prices	Will hurt
Higher value of residuals	Will hurt

**Q28: Describe another plausible scenario that would significantly affect the company?**

*Respondent skipped this question*

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**Q29: Are you willing to receive follow up questions after this survey?**

Yes

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