

Current Practices for Reducing Greenhouse Gas Emissions from Electric Utilities
UCSB Donald Bren School of Environmental Science and Management

RESPONDANT INFORMATION

Name: _____
 Title: _____
 Company Name: _____
 Address: _____
 City _____ State _____ Zip _____

HUMAN RESOURCES IN YOUR COMPANY'S ENVIRONMENTAL DEPARTMENT

1. How many full-time equivalent employees are there in your environmental department? _____
2. In terms of full equivalent positions, how many in-house employees does your company's environmental department have working on Greenhouse Gas (GHG) related issues?
 None Less than ¼ ¼ – ½ ½ – 1 1 – 2 2 – 3 3+
3. Does your company utilize GHG consulting services? yes no

CAPACITY AND GENERATION

4. What was your company's total generation capacity in 2005? _____ MW
5. What was your company's total generation in 2005? _____ MWh
6. How much electricity did your company purchase in 2005? _____ MWh
7. If your company purchased electricity in 2005, what percentage was through:
 - 7.a. Long term contracts with specific generators _____ %
 - 7.b. Power marketer _____ %
 - 7.c. Spot market _____ %
8. What was your company's fuel mix in 2005?

SOURCE	2005 CAPACITY	2005 GENERATION	2005 PURCHASE
Coal	%	%	%
Oil	%	%	%
Natural Gas	%	%	%
Biomass	%	%	%
Nuclear	%	%	%
Hydro	%	%	%
Wind	%	%	%
Solar	%	%	%
Other	%	%	%
Other	%	%	%
Total	100%	100%	100%

GHG INVENTORY AND REGISTRATION

9. Has your company conducted a GHG emission inventory? yes no

If yes to Question 9, proceed to 9.a. If no, please go directly to Question 10:

9.a. What were your total GHG emissions in 2005 (please provide units)?

From generation _____ From purchase _____

9.b. Has the inventory been verified by an independent third party? yes no

If yes to Question 9.b., please name of verifying party: _____

9.c. What is the baseline year for the inventory? _____

9.d. Which of the following tools or resources were used in conducting the inventory?

- The GHG Protocol Initiative (WRI & WBCSD)
- 1605(b) Reporting Guidelines (EIA)
- Guidelines for National Greenhouse Gas Inventories (IPCC)
- Power Utility Protocol (PUP)
- Other(s): _____
- None

9.e. To which of the following registries does your company report?

- EIA Voluntary Registry
- Carbon Disclosure Project
- California Climate Action Registry
- Other(s): _____
- None

GHG REDUCTIONS

10. In 2005, which of the following methods did your company utilize to reduce GHG emissions?

- | | |
|--|---|
| <input type="checkbox"/> Intensified Gasification Combine Cycle (IGCC) | <input type="checkbox"/> Heat Rate Improvement |
| <input type="checkbox"/> Cogeneration | <input type="checkbox"/> Waste Heat Recovery |
| <input type="checkbox"/> High Efficiency Transformers | <input type="checkbox"/> Biomass Co-firing |
| <input type="checkbox"/> Plant Retirement | <input type="checkbox"/> Environmental Dispatch |
| <input type="checkbox"/> Demand-Side Management | <input type="checkbox"/> Company Fleet Upgrades |
| <input type="checkbox"/> Switching to Renewable Energy Sources | <input type="checkbox"/> Other(s) _____ |
| <input type="checkbox"/> Fuel Switching | <input type="checkbox"/> None |

11. Compared to 2004, what was the quantity of emissions reductions achieved in 2005 (please provide units)? _____

12. In 2005, did your company offer its customers the option of purchasing renewable energy ("green power")? yes no

If yes to Question 12, proceed to 12.a. If no, please go directly to Question 13:

12.a. What, if any, was the price premium paid by consumers for "green power?" _____ \$/KWh

12.b. What percentage of your customers chose the "green power" program? _____

If yes to Question 12.b., please provide a brief description of the green power program:

GHG OFFSETTING

13. In 2005, which of the following practices did your company utilize to offset GHG emissions?

- Purchase of Emission Credits
- Reforestation / Afforestation
- Recycling of Coal By-products (e.g. Sale of Fly Ash)
- Geological Sequestration
- Landfill Methane Gas Capture
- Other(s): _____
- None

14. What was the total quantity of GHG emissions offsets in 2005? _____

15. Is your company engaged in GHG emission trading? yes no

If yes to Question 15, please provide the name of the exchange: _____

16. What, if any, partnerships is your company currently involved in for offsetting GHG emissions?

- Climate VISION Partnership
- PowerTree Carbon Company LLC
- UtiliTree Carbon Company
- Sulfur Hexafluoride (SF6) Partnership
- U.S. EPA Climate Leaders Program
- U.S. DOE Carbon Sequestration Regional Partnership
- U.S. EPA Green Power Partnership
- International Utility Efficiency Partnerships
- The California Climate Action Registry
- None
- Other(s): _____

MOTIVATIONS AND BARRIERS

17. Please rank your company's motivations to reduce GHG emissions ...

		None	Very Weak	Weak	Moderate	Strong	Very Strong	Strongest
A	Existing state regulations	0	1	2	3	4	5	6
B	Pressure from the media	0	1	2	3	4	5	6
C	Customer demand	0	1	2	3	4	5	6
D	Financial subsidies from the state	0	1	2	3	4	5	6
E	Improved efficiency	0	1	2	3	4	5	6
F	Shareholder pressure	0	1	2	3	4	5	6
G	Pressure from trade associations	0	1	2	3	4	5	6
H	Pressure from NGOs	0	1	2	3	4	5	6
I	Anticipated regulatory pressure	0	1	2	3	4	5	6
J	Leadership of executives	0	1	2	3	4	5	6
K	Anticipated legal liability	0	1	2	3	4	5	6

Please include any additional motivations that influence your company's approach to GHG emissions:

18. Please rank your company's barriers to reduce GHG emissions ...

		None	Very Weak	Weak	Moderate	Strong	Very Strong	Strongest
A	Lack of technologies	0	1	2	3	4	5	6
B	Lack of scientific knowledge regarding the impacts of GHG emissions	0	1	2	3	4	5	6
C	Cost of reduction strategies	0	1	2	3	4	5	6
D	Lack of regulation / Uncertainty regarding nature of future regulation	0	1	2	3	4	5	6
E	Lack of political pressure	0	1	2	3	4	5	6
F	Lack of executive support	0	1	2	3	4	5	6
G	Lack of customer interests	0	1	2	3	4	5	6

Please include any additional barriers that influence your company's approach to GHG emissions:

ADDITIONAL INFORMATION

19. Please feel free to include any additional information on your company's efforts to reduce GHG emissions not covered in this survey:

FINAL RESULTS

20. Would you like to receive a copy of the final report? yes no

If yes to Question 20, please provide your email address: _____

Thank you for your time and participation!