

**DNREC LIST OF EXHIBITS
FOR PROPOSED REGULATION 1147 – CO₂ Budget Trading Program
PUBLIC HEARING September 22, 2008**

1. A listing of the exhibits the Department is presenting at the public hearing.
2. A listing of potential acronyms used in the exhibits.
3. The Start Action Notice #2007-004, which was approved on May 01, 2007.

Regional Greenhouse Gas Initiative

4. Governor Minner and Six Other [Governors Announce Agreement](#) on Regional Greenhouse Gas Initiative, December 20, 2005
5. Regional Greenhouse Gas Initiative [Memorandum of Understanding](#), December 20, 2005.
6. Regional Greenhouse Gas Initiative [Amendment to Memorandum of Understanding](#), August 31, 2006.
7. Regional Greenhouse Gas Initiative [Second Amendment to Memorandum of Understanding](#), April 20, 2007.
8. Regional Greenhouse Gas Initiative [Model Rule](#), January 5, 2007.
9. ["REMI Impacts for RGGI Policies based on the Std REF & Hi-Emission REF"](#), by the Economic Development Research Group, dated November 17, 2005.
10. Final Report of the RGGI Emissions Leakage Multi-State Staff Working Group to the RGGI Agency Heads ["Potential Emissions Leakage and the Regional Greenhouse Gas Initiative \(RGGI\)"](#), dated March 2008.
11. Regional Greenhouse Gas Initiative (RGGI), ["Potential Emissions Leakage and the Regional Greenhouse Gas Initiative \(RGGI\): Evaluating Market Dynamics, Monitoring Options, and Possible Mitigation Mechanisms,"](#) Initial Report of the RGGI Emissions Leakage Multi-State Staff Workgroup to the RGGI Agency Heads, dated March 14, 2007.
12. Regional Greenhouse Gas Initiative, ["Very High Emissions" Scenario: Plausibility of Modeled Outcomes"](#), dated November 15, 2005.
13. Blank
14. Greenhouse Gas Reductions: [California Action and the Regional Greenhouse Gas Initiative](#), Congressional Research Service, updated August 31, 2007
15. [Evaluation of Impact of Regional Greenhouse Gas Initiative CO₂ Cap on the New England Power System](#), ISO New England Inc. October 26, 2006
16. [Allocation of CO₂ Emissions Allowances in the Regional Greenhouse Gas Cap-and-Trade Program](#), Resources for the Future, June 2006
17. [Economic Impact in New Hampshire of the Regional Greenhouse Gas Initiative \(RGGI\)](#): An Independent Assessment, University of New Hampshire, October 2007
18. [The Adverse Economic Impacts of Cap-and-Trade Regulations](#), Laffer and Winegarden, September 2007
19. [U.S. Supreme Court ruling](#), Massachusetts et al v. Environmental Protection Agency et al.

Workgroups

20. Letter to invite workgroup members to participate – dated February 8, 2008.
21. Regulation 1147 Workgroup Roster.

February 27, 2008 Workgroup Meeting

22. [Agenda](#)
23. [Meeting Sign-in sheet](#)
24. Presentation: [Delaware's CO2 Budget Trading Program: Regulation No. 1147](#)
25. Handout: [Air Quality & Health Impacts of Greenhouse Emissions and Global Warming](#)
26. Handout: [Proposed Delaware RGGI Implementation Schedule](#)
27. [Meeting Minutes](#)

March 26, 2008 Workgroup Meeting

28. Meeting [Agenda](#)
29. [Meeting Sign-in Sheet](#)
30. Proposed Regulation 1147 Version 1 – RGGI Model Rule (January 5, 2007) SEE EXHIBIT #8
31. [Meeting Minutes](#)

April 16, 2008 Workgroup Meeting

32. [Meeting Agenda](#)
33. [Meeting Sign-in Sheet](#)
34. Presentation: [Delaware's CO2 Budget Trading Program 04/16/08](#)
35. Handout: [Delaware EGU Emissions from 2000 to 2006](#)
36. Handout: [Delaware Climate Change Action Plan](#)
37. Handout: [Design Elements for Regional Allowance Auctions](#) dated March 17, 2008
38. [Proposed Regulation 1147 Version 2](#)
39. [Meeting Minutes](#)
40. [Governors Energy Task Force Brochure](#)

May 21, 2008 Workgroup Meeting

41. [Meeting Agenda](#)
42. [Meeting Sign-in Sheet](#)
43. Presentation: [Delaware's CO2 Budget Trading Program 05/21/08](#)
44. Handout: [RGGI Emissions Cap Analysis](#)
45. Handout: [Acid Rain Program - Summary of Part 75 Administrative Process](#)
46. Handout: [Proposed Senate Bill No. 263](#)
47. [Meeting Minutes](#)

June 18, 2008 Workgroup Meeting

48. [Meeting Agenda](#)
49. [Meeting Sign-in Sheet](#)
50. Presentation: [Delaware's CO2 Budget Trading Program 06/18/08](#)
51. Handout: [Email from D. Bacher](#)
52. Handout: [Email from S. Murdock](#)
53. [Alternative RGGI Comments](#) submitted by Cathe Kalisz, Valero

54. Proposed [Regulation](#) 1147 Version 3.1
55. [Meeting Minutes](#)

RGGI Workgroup & Public Comments

56. [Voluntary Renewable Energy Set-Aside \(VRE\)](#) submitted by D. Applebaum, FPL Energy, LLC.
57. [Renewable Energy Marketers Association](#)
58. [Comments submitted by Green Delaware](#)
59. [Comments submitted by Premcor Refining Group, Inc.](#)

Public Workshop – August 7, 2008

60. The meeting information for the public workshops on the draft Regulation 1147 on August 7, 2008 in Dover, DE, as it appeared on the [DNREC Newsroom webpage on July 30, 2008](#).
61. The affidavit and the legal notice that appeared in the [Delaware State News](#) on July 27, 2008, advertising that public workshops would be held on the draft Regulation 1147 on August 7, 2008 in Dover, DE.
62. The affidavit and the legal notice that appeared in the Wednesday [News-Journal](#) on July 28, 2008, advertising that public workshop would be held on the draft Regulation 1147 on August 7, 2008 in Dover, DE.
63. [Public Workshop Notice](#)
64. [Proposed Regulation 1147 version 4](#).
65. Public Workshop [Sign-in Sheet](#)
66. USEPA's [Climate Change and Delaware](#) Fact Sheet
67. [Workshop Presentation](#)
68. [Overview of RGGI CO2 Budget Trading Program](#).

Public Hearing – September 22, 2008

69. The proposed regulatory language for Regulation 1147, as it appeared on Delaware's website in the [Delaware Register of Regulations](#) on September 1, 2008.
70. The affidavit and the legal notice that appeared in the [Delaware State News](#) on August 17, 2008, advertising that a public hearing would be held on proposed Regulation 1147 on September 22, 2008 in Dover.
71. The affidavit and the legal notice that appeared in the Wednesday [News-Journal](#) on August 17, 2008, advertising that a public hearing would be held on proposed Regulation 1147 on September 22, 2008 in Dover.
72. The meeting information for the September 22, 2008 public hearing on proposed amendment of Regulation 1147, as it appeared on the Delaware [Statewide Calendar of Meetings and Events](#) webpage on September 11, 2008.
73. The [Air Quality Management webpage dedicated to this regulatory action](#) as it appeared on September 11, 2008.
74. The [DNREC NEWS](#) on the Public Hearing Notice for Regulation 1147 dated September 3, 2008.
75. The [AIR AND WASTE NEWS](#) dated September 9, 2008.
76. RGGI Executive Summary.
77. Department Analysis for the "Regulatory Flexibility Act", Chapter 29 Del. C § 10401 - § 10408 document.

Technical Support Documents

78. The Technical Support Document for Regulation 1147 - CO₂ Budget Trading Program. September 2008.
79. Congressional Budget Office. [Trade-Offs in Allocating Allowances for CO₂ Emissions](#), April 25, 2007.
80. Redefining Progress. *Regional Incentives To Reduce Greenhouse Gases: [The Crucial Importance Of Auctioning Permits For Jobs, Competitiveness, and Equity](#)*, J. Andrew Hoerner, September 2004.
81. Pew Center on Global Climate Change. [Emissions Trading in the U.S. Experience, Lessons, and Considerations for Greenhouse Gases](#), Ellerman et al, May 2003.
82. Energy Center of Wisconsin. [Life-Cycle Energy Cost and Greenhouse Gas Emissions for Gas Turbine Power](#), December 2000.
83. United States Environmental Protection Agency (EPA), [U.S. Greenhouse Gas Inventory Reports, Inventory of U.S. Greenhouse Gas Emissions and Sinks: 1990-2005](#) (April 2007), USEPA #430-R-07-002, Executive Summary, or for a copy of the entire report (437 pp., 14.2 MB) see <http://www.epa.gov/climatechange/emissions/usinventoryreport.html>, accessed 12/14/07.
84. Intergovernmental Panel on Climate Change (IPCC), Fourth Assessment Report, Working Group III Report, "Mitigation of Climate Change," Chapter 13, ["Policies, Instruments and Co-operative Arrangements," page 776, Box 13.7: "The range of difference between emissions in 1990 and emission allowances in 2020/2050 for various GHG concentration levels for Annex I and non-Annex I countries as a group,"](#) (see http://arch.rivm.nl/env/int/ipcc/pages_media/FAR4docs/final_pdfs_ar4/Chapter13.pdf, accessed January 18, 2008).
85. Intergovernmental Panel on Climate Change, [Fourth Assessment Report, Climate Change 2007: Synthesis Report, Summary for Policymakers](#). November 2007. (See also http://www.ipcc.ch/pdf/assessment-report/ar4/syr/ar4_syr_spm.pdf, accessed 12/14/07.
86. Summary for Policymakers of the Synthesis Report of the [IPCC Fourth Assessment Report](#), Nov. 2007.
87. National Oceanic and Atmospheric Administration (NOAA), Earth Systems Research Laboratory, as quoted by the U.S. Environmental Protection Agency (EPA) website for Greenhouse Gases – Carbon Dioxide, <http://www.epa.gov/climatechange/science/recentac.html#ref>, accessed 12/10/07.
88. U.S. Environmental Protection Agency, Greenhouse Gas Emissions, <http://www.epa.gov/climatechange/emissions/index.html#ggo>, accessed 12/10/07, and <http://www.epa.gov/highgwp/sources.html>, <http://www.epa.gov/methane/sources.html>, and <http://www.epa.gov/nitrousoxide/sources.html>, all accessed 12/10/07.
89. US Department of Commerce, National Oceanic & Atmospheric Administration. Office of Ocean and Coastal Resource Management website. *Ocean and Coastal Management in Delaware*. (2008) Retrieved on August 19, 2008 from <http://coastalmanagement.noaa.gov/mystate/de.html>.
90. American Lung Association of California website – *Global Warming* (2008) at <http://www.californialung.org/advocacy/global-warming>.
91. United States Department of Commerce, National Oceanic and Atmospheric Administration, National Ocean Service, Population Trends Along the Coastal United States, 1980-2008, March 2005. Retrieved from http://oceanservice.noaa.gov/programs/mb/supp_cstl_population.html.
92. University of Delaware College of Marine and Earth Studies. Sea Level Rise and Its Effect on Delaware. (2007). Retrieved from http://co2.cms.udel.edu/SeaLevel_DE.htm.

93. United States Environmental Protection Agency (EPA), Office of Policy, "*Climate Change and Delaware*," EPA 230-F-97 –008h, September 1997. (See [www.yosemite.epa.gov/oar/globalwarming.nsf/UniqueKeyLookup/SHSU5BPQKV/\\$File/de_impct.pdf](http://www.yosemite.epa.gov/oar/globalwarming.nsf/UniqueKeyLookup/SHSU5BPQKV/$File/de_impct.pdf)).
94. United States Environmental Protection Agency (EPA), EPA website - *Heat Island Effect, Basic Information*, <http://www.epa.gov/hiri/about/index.html>, accessed January 30, 2008.
95. Delaware Department of Agriculture Forest Service. *Forest Health in Delaware. A Vision for the Future*. (2006). Retrieved on August 18, 2008 from http://dda.delaware.gov/forestry/protec.shtml#forest_health_mon
96. Northeast Climate Impacts Assessment (NECIA), *Confronting Climate Change in the U.S. Northeast: Science, Impacts, and Solutions*, released July 11, 2007.
97. U.S. Climate Change Science Program and the Subcommittee on Global Change Research. *The effects of climate change on agriculture, land resources, water resources, and biodiversity in the United States*. (May 2008). Final Report, Synthesis and Assessment Product 4.3. Chapter 3. Retrieved from <http://www.climatescience.gov/Library/sap/sap4-3/final-report/default.htm#EntireReport>
98. U.S. Climate Change Science Program, "*The effects of climate change on agriculture, land resources, water resources, and biodiversity in the United States.*," Final Report Synthesis and Assessment Product 4.3, Chapter 5, Biodiversity. (May 2008). Retrieved from <http://www.climatescience.gov/Library/sap/sap4-3/final-report/default.htm#EntireReport>. SEE EXHIBIT #97
99. National Wildlife Federation, "*Wildlife at Risk: Change the Forecast for Wildlife, Solutions to Global Warming*", 2006, p.2, <http://www.nwf.org/globalwarming/pdfs/WildlifeatRisk.pdf>, accessed 12/18/07.
100. U.S. Climate Change Science Program, Chapter 2, Agriculture. (May 2008). SEE EXHIBIT #97
101. Garcia, Alvaro. *Dealing With Heat Stress In Dairy Cows*. South Dakota Cooperative Extension Service. September, 2002. Page 1. Retrieved from <http://sdces.sdstate.edu/agbiopubs.sdstate.edu/articles/ExEx4024.pdf>
102. National Assessment Synthesis Team (NAST), 2001: *Climate Change Impacts On The United States, The Potential Consequences of Climate Variability and Change*. Foundation Report, Chapter 15, Page 450. Retrieved from <http://www.usgcrp.gov/usgcrp/Library/nationalassessment/foundation.htm>.