

RESUME OF

THOMAS A. HEWSON JR.

Q: PROFESSIONAL EXPERIENCE

**1981-Present Energy Ventures Analysis, Inc.
Principal**

Responsible for power industry market studies. Provides regular power industry forecasts of future electricity demand growth, generation mix, environmental compliance and production cost changes for Fuelcast subscribers and individual client studies. Completed numerous studies examining the effect of future environmental regulation and utility deregulation on fuel prices, supplier capacity decisions (new, repower, retire), generation/environmental technology choice, wholesale electric prices and emission allowance values. Provided market assessments for new fuel, generation and pollution control technologies. Directed industrial utility group examining repowering technology options, costs and risks. Completes studies on renewable power options, costs, incentives and price impacts. Performs assessments of electricity demand, energy conservation potential and alternative energy charge frameworks for power consumers.

Responsible for corporate emission allowance forecasts and assessments. Provides ongoing forecasts of emission trading market prices and fundamentals of existing Acid Rain SO2 market, seasonal NOx market, CAIR, RGGI and individual state new source offset markets. Assesses future market trading values for mercury and carbon dioxide. Evaluates wide range of state legislative multi-pollutant proposals and their effect on regional production costs, state GDP, and environmental benefits. Engaged in developing new rules and regulations to expand existing emission allowance trading markets to include non-traditional sources (e.g. mobile sources).

Directs technical feasibility and environmental permitting studies. Expert in electric utility repowering technologies, fuel upgrading and environmental control technologies. Work includes several plant specific analyses on the costs of reducing SO2 emissions through allowance purchases, switching to lower sulfur fuels, least emission dispatching, plant retirements, repowering and FGD scrubber retrofits for all major coal and oil fired utility stations. Examined feasibility/costs of hazardous waste treatment/disposal for all major industrial waste streams in Louisiana.

**1976- 1981 Energy and Environmental Analysis, Inc.
Project Manager**

Responsible for environmental and regulatory analysis. Examined, for governmental and industrial clients, the requirements and associated impacts on current industrial practices of the Clean Water Act, Clean Air Act, Resource Conservation and Recovery Act, Toxic Substances Control Act, Safe Drinking Water Act, Fuel Use Act, Natural Gas Act, Natural Gas Policy Act,

1 Surface Mining and Reclamation Act and Occupational Safety and Health Act. Results of these
 2 policies, economic and technical analyses have been used for Congressional hearings, EPA
 3 rulemaking, court testimony, industrial policies, administrative hearings and permit negotiations.
 4 Developed Federal and state regulatory compliance strategies for the Department of Energy and
 5 several industrial clients. On behalf of several clients, he has applied for construction, NPDES,
 6 air, solid waste, hazardous waste, water use and land use permits.

7
 8 Responsible for solid waste/hazardous waste management analyses. Evaluations have
 9 included analyses of solid waste and hazardous waste treatment/disposal options for the
 10 fertilizer, fermentation ethanol, petrochemical, inorganic chemical, electric utility, synthetic fuel,
 11 pulp and paper and mineral processing industries.

12 **Publications**

13
 14 Mr. Hewson has presented and published several papers on the electric utility industry and
 15 emission allowance markets. Also co-author on two papers on innovative wastewater treatment
 16 technologies.

17
 18 **Educational Background**

19
 20 1976 B.S.E. (Civil Engineering), Princeton University.

21
 22 Mr. Hewson was appointed for a 2-year term as a Member of the Alexandria Environmental
 23 Policy Commission in 2005. He served as Commission Vice Chairman in 2006 until his term
 24 expired in January 2007.

1 **Testimony in State Regulatory Proceedings:**

2 A: Public Utility Commissions

3 Progress Energy Florida Modular Cooling Tower Eligibility for Cost Recovery under Florida
4 Environmental Cost Recovery Clause and Fuel Clause-- Testimony to Florida Public Utility
5 Commission Docket # 060162-EI (March 2007) on behalf of Florida Office of Public Council

6
7 TECO FGD Reliability Upgrade Program Project Eligibility for Cost Recovery under Florida
8 Environmental Cost Recovery Clause-- Testimony to Florida Public Utility Commission Docket
9 # 050958-EI (March 2007) on behalf of Florida Office of Public Council

10
11 Identifying the Carbon Risk for a New Power Generation Decision— Big Stone II – Testimony
12 to South Dakota Public Utilities Commission Case EL05-022 (June 2006) & Minnesota Public
13 Utilities Commission Docket Numbers CN-05-619 & TR-05-1275 (December 2006, January
14 2008) on Behalf of Big Stone II Partnership

15
16 Identifying the Wind Power Alternative Risk for a New Power Generation Decision— Big Stone
17 II – Testimony to South Dakota Public Utilities Commission Case EL05-022 (June 2006) &
18 Minnesota Public Utilities Commission Docket Numbers CN-05-619 & TR-05-1275 (December
19 2006, January 2008) on Behalf of Big Stone II Partnership

20
21 Assessment of Environmental Claims for Proposed Highland Wind Energy Project—Testimony
22 to Virginia State Corporation Commission Case # PUE-2005-00101 Rezoning Petition ZP-702
23 (October 2006) on Behalf of Highland Citizens Group

24
25 Assessment of Generation Claims of Proposed Roth Rock Project—Testimony to Maryland
26 Public Service Commission Case # 9008 (October 2005) on Behalf of Citizens Group

27
28 Assessment of Environmental Claims of Proposed East Haven Wind Farm—Testimony to
29 Vermont Public Service Board Case # 6911 (April 2005) on Behalf of Kingdom Commons
30 Group

31
32 Evaluation of NRDC Proposed Alternatives to SCE Mohave Power Powerplant—Testimony to
33 California Public Utility Commission Docket U-338-E (July 2004) on Behalf of Peabody Coal
34 Company

35
36 Evaluation of Aurora-GVEA Chena Powerplant Power Purchase Agreement—Testimony to
37 Alaska Regulatory Commission Docket #U-02-60 (September 2003) on behalf of Aurora Energy

38
39 Evaluation of Proposed Environmental and Renewable Provisions of the New England Electric
40 System Deregulation Settlement Agreement—Testimony to Massachusetts Department of Public
41 Utilities Docket 96-25 (November 1996) on Behalf of Center for Energy and Economic
42 Development

43

1 State Environmental Agencies:

2 Mercury Policy Options and Impact on Georgia Ratepayers- Testimony to Georgia Dept of
 3 Natural Resources for its proceeding to develop Mercury Rule to Implement CAMR (December
 4 2006) Testimony on Behalf of CEED

5
 6 Evaluation of Delaware Multi-Pollutant Proposed Regulation 1146—Testimony to Delaware
 7 Dept of Natural Resources and Environmental Control for its proceeding on state CAMR and
 8 CAIR Rules --May 2006 and September 2006 on Behalf of CEED

9
 10 Impact of Mercury Regulations on Pennsylvania Coal-Fired Powerplants- Testimony to
 11 Pennsylvania Dept of Environmental Protection for its proceeding to develop Mercury Rule to
 12 Implement CAMR (November 2005) Testimony on Behalf of Pennsylvania Coal Association

13
 14 Challenges in Setting Mercury Limitations in Massachusetts—Testimony to Massachusetts
 15 Department of Environmental Protection in its proceeding to set mercury control limits to
 16 implement Massachusetts Executive Order. Testimony was made on Behalf of CEED (October
 17 2002)

18
 19
 20 State Legislative Energy Committees

21 Greenhouse Gas Control Policy Alternatives in Minnesota Testimony to Minnesota Senate
 22 Energy Committee (February 2007)

23
 24 Advancements in Clean Coal Technology Presentation to Wisconsin Joint Legislative Council
 25 (November 2006)

26
 27 Advancements in Coal Technology Presentation to Idaho House Energy Environment and
 28 Technology Committee (February 2006, March 2006)

29
 30 Coal Market Trends Presentation to National Conference of State Legislatures (November 2004)

31
 32 EFFECT OF PROPOSED MULTI-POLLUTANT REGULATIONS ON SALEM HARBOR
 33 POWER PLANT-- TESTIMONY TO MASSACHUSETTS JOINT COMMITTEE ON ENERGY
 34 AND GOVERNMENTAL REGULATIONS FOR ITS HEARING ON SALEM HARBOR
 35 STRICTER AIR EMISSIONS REQUIREMENTS (MARCH 2003)

36
 37 Evaluation of Assembly Bill A5577 to Control SO2, NOx and CO2 (April 2001) Presentation to
 38 Energy Committee Members of NY State Assembly

39
 40 Evaluation of New Hampshire Proposed Multi-Pollutant Bill HB 284 Testimony to New
 41 Hampshire Energy Committee (March 2001)

1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25
26
27
28
29
30
31
32
33
34
35
36
37
38
39
40

Power Industry Presentations (Partial listing)

Mr. Hewson has and continues to give presentations on major environmental issues facing the electric utility industry each year to both legislative and industry forums. A partial listing of the papers that were on his shelves is provided below.

- Four Common Arguments on Why New Coal Plants Should Not Be Built: Fact or Fiction? (April 2008) ACCCE Webinar
- Advancements in Coal Technology (June 2006) Presentation to Mid-American Regulatory Conference
- Emerging US Environmental Regulation & Legislation (May 2004) Presentation to American Coal Council
- Emerging US Environmental Regulation- The Impact on North American and International Coal Markets (February 2002) CoalTrans Americas Conference panel presentation
- Power and Coal Markets under Siege from Tightening Environmental Requirements- The Battle Continues (Sept 1999) Coal Marketing Days Conference
- The Future of Coal Processing Technologies (November 1995, January 1996) Presentations to Coal Preparation Research: How to Help Industry and Who Pays for it? and to EPRI Upgraded Coal Interest Group
- Characterizing the Trace Element Content of Utility Coals (August 1995) 3rd International Conference on Managing Hazardous and Particulate Air Pollutants
- Future Outlook for the Utility Coal Market (March 1995) Presentation to Eight Utility Coal Conference
- 1990 Clean Air Act Impacts on Utility Coal Markets (September 1994) Presentation to Pittsburgh International Coal Conference
- Overview of Coal Processing Technology (September 1994) EEI Construction Committee Fall Meeting
- Coal's Competitive Position with Natural Gas as a Power Generation Fuel (April 1994) Presentation to Kentucky Coal Conference

- 1 Utility Market Assessment of Repowering Technology Options- Will Repowering Be an
2 Important Future Utility Trend or a Fad? (November 1993) Presentation to PowerGen 93
3
4 Integrated Analysis of Fuel Technology and Emission Allowance Markets Under the 1990 Clean
5 Air Act (November 1993) Presentation to PowerGen 93
6
7 Title III Air Toxic Provisions: Major Unresolved Issues and Concerns (February 1993)
8 Engineering Foundation Conference
9
10 Advanced Coal Cleaning Technologies: Are They the Promised Land or Mirage for Utility
11 Compliance Under the 1990 Clean Air Act (October 1992) Presentation to Pittsburgh
12 International Coal Conference
13
14 Current Outlook for Future Environmental Regulation Affecting Coal-Fired Powerplants
15 (November 1991) CBI Conference Coal-Fired Powerplants in the New Generation Portfolio