



## WILEY J. BARBOUR, P.E.

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### BIOGRAPHIC INFORMATION:

Wiley Barbour is a Managing Partner at Cventure LLC, and provides project and program management services to private and nonprofit clients. Mr. Barbour is an expert in environmental markets having spent the last 25 years of his career providing technical and policy program management support to corporations, government, and nonprofit clients on issues related to greenhouse gas (GHG) emissions, corporate climate change strategy, and sustainability. He is currently conducting two (2) Cventure LLC carbon program management projects for major carbon market players.

Prior to co-founding Cventure, Mr. Barbour served for 6 years as the Executive Director of Environmental Resources Trust (ERT), where he managed the ERT GHG Registry®, and development/launch of the American Carbon Registry (ACR) for Winrock. Also at ERT, Mr. Barbour provided program management and sustainability program consulting services to several corporate clients, including Entergy, Nike, NYMEX, AIG, the World Bank, and Wal-Mart. Previously, he served in the U.S. EPA's Policy Office, managing the U.S. GHG Emission Inventory Program. Wiley has worked with a number of multinational companies making the transition to a more sustainable future, and provided expert testimony to Federal and State policy makers on issues related to GHG measurement and verification protocols.

Wiley continues to work as a leading advocate for transparency and quality initiatives in the voluntary carbon market. He previously worked for Camco Clean Energy, a British climate change practice with a 20 year track record in sustainable development and an investment portfolio in emission reduction projects around the world. During his four years as a Vice President at Camco, Wiley led a successful effort to develop the first forest carbon project in the state of Alaska and created and launched the Nitrace project, a first of its kind program to help farmers in the US Corn Belt adopt nitrogen use efficiency practices with incentives from environmental markets.

From 2001-2009 Mr. Barbour was the Executive Director of Environmental Resources Trust (ERT), an early nonprofit pioneer in market based solutions to environmental problems. At ERT he developed and operated the world's first online registry of GHG reductions and pioneered standards and protocols for the emerging carbon market. After leading ERT into a merger with Winrock International, he helped to found and launch the American Carbon Registry.

In the 1990's Mr Barbour served in the Policy Office of the US Environmental Protection Agency. For seven years, Mr. Barbour was responsible for the US Government's Greenhouse Gas Emission Inventory Program and participated in numerous US delegations to the United Nations Framework Convention on Climate Change and related climate change negotiations. He contributed to the work of the Intergovernmental Panel on Climate Change, particularly on issues related to national reporting, GHG emissions accounting, and verification of emission inventories. Mr. Barbour has also worked for 6 years as a consultant and senior air pollution engineer at Radian Corporation, and inspected landfills as a Solid waste Engineer in the State of Florida's Department of Environmental Regulation.





## SUMMARY OF RELEVANT EXPERIENCE

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| 2009 - Present | <b>Managing Partner</b> , Cventure LLC   |
| 2013 - Present | <b>Executive Director</b> , International Biochar Initiative   |
| 2009 - 2013    | <b>Vice President for Corporate Development</b> , Camco Clean Energy, Broomfield, Colorado                             |
| 2007 – 2009    | <b>Innovation Program Officer for Climate</b> , Winrock International, Arlington, VA                                   |
| 2001- 2007     | <b>Executive Director</b> , Environmental Resources Trust, Inc., Washington, DC  |
| 2000 – 2001    | <b>Senior Environmental Engineer</b> , Office of Atmospheric Programs, Environmental Protection Agency, Washington, DC |
| 1995 – 2000    | <b>Senior Policy Analyst</b> , US EPA Policy Office, Climate Policy and Programs Division, Washington DC               |
| 1989 – 1995    | <b>Program Manager/Staff Engineer</b> , Radian Corporation, Research Triangle Park, NC                                 |
| 1987 – 1989    | <b>Environmental Engineer</b> , Florida Dept. of Environmental Regulation, Jacksonville, FL                            |

## CURRICULUM VITAE

### **Vice President, Corporate Development for Camco Clean Energy (April 2009-June 2013)**

- Led Camco's carbon offset project team on agricultural and forestry related business development. Successfully developed and registered the first Forest Carbon Project in the State of Alaska.
- Successfully led proposal team to win a \$1.4 million USDA Conservation Innovation Grant
- Founder & Director of Nitrace, the world's first aggregation company for GHG reductions achieved through adoption of fertilizer best management practices in the Corn Belt
- Provided GHG Emission Inventory support to JPMorgan Chase including leading recalculation of baseyear following mergers and acquisitions over three year period
- Supported World Bank's Global Gas Flare Reduction Partnership seeking revisions and expanded adoption of Clean Development Mechanism (CDM) Protocols.
- Successfully completed Emission Reduction Purchase Agreements (ERPA) with buyers of offsets in the US Voluntary market valued over one million dollars.

### **Innovation Program Officer for Climate, Winrock International (Oct 2007-March 2009)**

- Launched New Orleans Solar Schools Initiative to install solar roofs on four high schools damaged by hurricane Katrina
- Founded and launched the American Carbon Registry, an online repository of qualified information about GHG emissions and reductions. Supports the transparent creation, trading and retirement of millions of tons of GHG reductions. Sets standards for high quality offsets.

### **Executive Director, Environmental Resources Trust (2001 - 2007)**

- Directed national nonprofit company with annual revenues over 1 million USD and environmental asset portfolio valued at 10 million dollars. Managed staff of five.
  - Assisted numerous companies to take early, voluntary action to manage greenhouse gas emissions and participate in emerging markets for trading emission offsets
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- Provided carbon advisory and sustainability consulting services to diverse corporate clients including:

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|--------------|----------------|----------------------------|
| Wal-Mart     | Google         | Environmental Defense Fund |
| World Bank   | Bloomberg      | NewsCorp                   |
| Entergy Corp | Nike           | Core Energy                |
| NYMEX        | CarbonFund.org | Duke Power                 |

- Created infrastructure to the US carbon market by developing and operating the GHG Registry®, an online registry of high quality greenhouse gas reduction offsets. The GHG Registry supported millions of tons of trading of verified emission reductions or offsets.
- Developed state-of-the art protocols for measuring, reporting and verifying reductions achieved by offset projects in a variety of sectors including landfill gas capture, anaerobic digesters and improved manure management systems.
- Providing third party verification to major corporate clients in a variety of sectors including electricity generation, manufacturing, oil and gas extraction, insurance, etc.
- Providing expert testimony, advisory services, and strategic guidance on greenhouse gas emissions and climate mitigation strategies to a wide variety of government agencies, corporate clients, independent project developers, and policy makers.

#### **Senior Policy Analyst, Environmental Protection Agency, United States, (1995 – 2001)**

- Directed the development, production, and approval process for the official U.S. government greenhouse gas emissions inventory for submission to the United Nations under the Framework Convention on Climate Change for 1996 -2000.
- Participated in the development and improvement of the Intergovernmental Panel on Climate Change (IPCC) *Guidelines for National Greenhouse Gas Inventories*, focusing on energy and industrial emission sources;
- Co-Chair of the Emission Inventory Improvement Program's Greenhouse Gas Emission Inventory Committee;
- Served as the U.S. representative to the Steering Group for the OECD/IEA Inventory Programme, and the IPCC Inventory Bureau;
- Served as official member of US Delegation to numerous United Nations meetings under the UN Framework Convention on Climate Change, including SBSTA and Plenary Sessions, side negotiations and bi-lateral meetings.

#### **Program Manager, Radian Corp, United States, (1989 – 1995)**

- Program manager for emission inventory activities nationwide.
  - Project Manager at Radian Corp. for the *Emission Inventory Improvement Program (EIIP)*. Responsibilities include supporting the EIIP Steering Committee, coordinating work on multiple technical assignments and guiding the development of preferred and alternative methods manuals to replace EPA guidance on inventory methodologies.
  - Research Director in 1993 review and upgrade of the city of Baltimore's Air Toxics Inventory. Also served as the external QA officer for the State of Virginia's VOC, NOx, and CO emission inventory.
  - Project Director at Radian for state assistance projects, providing direct technical assistance to over 20 state and local air pollution control agencies involved with preparing 1990 Base Year Emission Inventories for Ozone and CO non-attainment areas. Activities included evaluation and auditing of inventories nationwide, often conducting in-house training programs. Responsible for providing guidance on data collection techniques, emission calculations, and computer database development. Led development of computer programs, guidance documents, training manuals, and technical memos to facilitate this effort.
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- Principal investigator for review of post-1987 Emission Inventories. Reviews examine completeness, documentation, QA procedure, and reasonableness of emission calculations and assumptions.
- Project Director for the synthetic organic chemical manufacturing industry (SOCMI) control techniques guideline (CTG). Conducted vendor survey to develop design and cost procedures and then developed computer programs for estimating fixed and variable costs of state-of-the-art control devices. Evaluated and quantified regulatory impacts of various reasonably available control technology (RACT) levels. Conducted cost effectiveness analysis, including incremental cost effectiveness analysis, to support rulemaking.
- Assisted with development of a background information document for the Hazardous Organic National Emission Standard for Hazardous Air Pollutant (NESHAP). Provided cost algorithms and design procedures for estimating regulatory impacts.

#### **Environmental Engineer, Florida Department of Environmental Regulation, (1987 – 1989)**

- Responsible for engineering review of sanitary landfill permit applications.
- Lead field inspector for 19 county territory in Northeast Florida, inspecting active and closed solid waste facilities including sanitary landfills, dumps, transfer stations.
- Initiated enforcement actions for noncomplying landfills.
- Member of Northeast Florida Hazardous Materials Emergency Response Team; field manager for several assessment, containment and clean up incidents.

#### **Specialized Training:**

Mr. Barbour is a licensed and registered as a Professional Engineer by the National Council of Examiners for Engineering and Surveying (License # 19664) and received training and certification in hazardous waste management, landfill operations, and environmental auditing.

#### **Education:**

Graduate Studies, Applied Economics, Johns Hopkins Univ., Washington DC, 2004-2005  
BS Environmental Engineering, University of Florida, Gainesville FL, 1987  
AA Undergraduate Studies, Florida State University, Tallahassee FL, 1985

#### **Professional and Academic Recognition and Affiliations:**

Registered Professional Engineer in the State of North Carolina  
National Council of Examiners for Engineering and Surveying (#19664)

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