

**OPTIMIZING THE VALUE OF LANDFILL GAS  
THROUGH ENERGY RECOVERY AND CARBON CREDITS**

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## Optimizing the Value of Landfill Gas Through Energy Recovery and Carbon Credits

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This paper will include the following:

- An Overview of Carbon Markets
  - The Kyoto Protocol and how it impacts the U.S. carbon markets
  - Factors Affecting the Size of the U.S. Market
    - Voluntary Markets
    - Compliance Markets
  - Approaches to Marketing Carbon Credits
  - Various Project Participants and their roles in the process of monetizing carbon credits
- Why Landfills Are Attractive for Carbon Credit Projects
- Constraints on qualifying for Carbon Credits
  - additionality, etc.
- Brief overview of Other Incentives related to LFGE projects (RECs, etc.)  
(main point here is how carbon credits are differentiated from other incentives)
- Is Your Landfill Eligible to Market Carbon Credits?
  - Quantification and Validation of Carbon Credits from Landfills
  - Landfill Eligibility Under the Chicago Climate Exchange
  - Quantifying Carbon Credits
  - Buyers & Sellers of Carbon Credits
- The Process of Buying & Selling Carbon Credits
- How Carbon Credits Can Enhance the Viability of Landfill Gas to Energy Projects

### *BIOGRAPHY*

Mr. Yard's 25 years of engineering experience has encompassed a broad range of projects including feasibility studies, permitting projects, conceptual designs, construction plans and specifications, constructed-related services, and operations consulting. In particular, I completing landfill-gas-to-energy (LFGE) feasibility studies, he has become familiar with the potential value of greenhouse gas (carbon) credits. He has made significant contributions to numerous operating facilities, including landfill gas (LFG) recovery/control plants, landfill closures, new disposal sites, landfill expansions, material recovery facilities and transfer stations. He served as the project director for one of the first LFGE facility in U.S. and for various LFG design and construction projects, as well as LFG modeling and air quality permitting projects.

Having worked in numerous states, he has developed considerable expertise in implementing the air quality and Subtitle D rules under the jurisdiction of various state agencies. Mr. Yard is a registered professional engineer in five states. Mr. Yard has authored numerous technical papers and has presented expert testimony before legislative committees, district court and at numerous hearings.