



**CLIMATE CHANGE &
ENVIRONMENTAL SERVICES**

Marc Karell, P.E.
Climate Change & Environmental Services, LLC

1506 Henry Avenue, Mamaroneck, NY 10543
Tel.: 914-584-6720 Fax: 914-777-1279 climatechangeenv@gmail.com

OWNER OF FIRM

with nearly 25 years of broad-based experience in

| | |
|--|--|
| CLIMATE CHANGE PROGRAMS | AIR EMISSION INVENTORIES |
| GHG EMISSION INVENTORIES ("CARBON FOOTPRINTING") | TESTING, MONITORING MANAGEMENT |
| ENERGY AUDITING AND CONSERVATION STUDIES | AIR COMPLIANCE AUDITS |
| STRATEGIES TO COST-EFFECTIVELY REDUCE CARBON | AIR AND ENVIRONMENTAL COMPLIANCE PLANS |
| PROJECT MANAGEMENT TO ENSURE SUCCESS | AGENCY NEGOTIATIONS |
| GREEN BUILDING, LEED EVALUATIONS | PRESENTATIONS / PUBLIC SPEAKING |

Licensed Professional Engineer – NY
Lecturer, New York Medical College

SUMMARY

- Expertise in senior-level administration of climate change and air quality programs
- Solution-driven with a keen understanding of organizational issues
- Strategic approaches to cost-effective solutions, performance measures, and productivity improvement
- Has planned, led, and organized all aspects of climate change and air quality compliance programs for a number of diverse industrial and commercial facilities and companies
- Demonstrated problem solver for many environmental concerns and rules.
- Extensive background in consulting for ranging from small to large and from simple to complex facilities and operations.
- Solid skills in communication with the public, in negotiations with regulatory agencies, and in maintaining positive company team partnerships with individuals on all levels.
- Highly adept in presenting technical issues before both technical and non-technical clientele.
- Visualizes and communicates big picture goals and the means to attain them.
- Open to travel.

AREAS OF STRENGTH

- ❖ Technical environmental and energy problem solving
- ❖ How to turn Climate Change into a beneficial and profitable business program for your company
- ❖ Energy and green building evaluations; how they can save you the most money and resources.
- ❖ Improvement in efficiency to maintain and increase production, while lowering resource usage, such as electricity, heat, and water
- ❖ Air quality and other environmental program compliance assessments, including emission inventories and assisting on strategizing operations and permits to allow you to operate with as great a flexibility as possible safely within regulatory constraints
- ❖ Air compliance audits
- ❖ Manage the design and implementation of air pollution control equipment, monitoring systems, compliance procedures, and testing



**CLIMATE CHANGE &
ENVIRONMENTAL SERVICES**

Marc Karell, P.E.

Climate Change & Environmental Services, LLC

- ❖ Prepare permit applications to federal and state regulatory agencies to allow companies maximum operational flexibility while still complying with all applicable regulations
- ❖ Negotiation with regulatory agencies and effective communication with the public
- ❖ Active environmental problem solver. If there is a problem that I am not strong in, I can likely find an experienced professional to successfully address it.

PROFESSIONAL EXPERIENCE / ACCOMPLISHMENTS

Environmental Resources Management, Inc.

2004 - 2009

Senior Project Manager for major environmental consulting firm, Marc was their initial North American leader in Energy & Climate Change. Marc led and performed numerous greenhouse gas (GHG) emissions inventories (“carbon footprinting”), strategic evaluations to cost-effectively reduce GHG emissions, and implementation of such programs. In addition, Marc performed many technical projects in Air Quality and other environmental areas, such as emission inventories, impact assessments, strategies to cost-effectively comply with applicable regulations, permit strategies, and management of compliance efforts.

Malcolm Pirnie, Inc.

1988 - 2004

Senior Project Engineer for major environmental consulting firm. Marc performed a variety of Air Quality projects for a wide variety of industrial and municipal facilities, including air quality audits, compliance reviews, emission inventories, air toxics evaluations, strategizing for cost-effective compliance procedures, and managing air pollution control, monitoring system, and testing projects, preparation of complex federal and state air permit applications (Title V, synthetic minor, NSR, and PSD), and agency negotiations.

US Environmental Protection Agency, Region 2

1986-1988

Air Compliance Engineer for federal agency, Marc was a compliance officer performing inspections of a wide variety of industrial sites to determine whether compliance is maintained. Marc also worked with federal attorneys in evidence gathering. Finally, Marc assisted in a monitoring research project in Staten Island, NY and northern NJ to monitor levels of certain air toxics over time.

EDUCATION

- ❖ Masters Degree: Chemical Engineering – Columbia University, New York, NY
- ❖ Masters Degree: Biochemistry – University of Wisconsin, Madison, WI
- ❖ Bachelors of Science Degree: Biochemistry – New York University, New York, NY



CLIMATE CHANGE &
ENVIRONMENTAL SERVICES

Marc Karell, P.E. Climate Change & Environmental Services, LLC

PROFESSIONAL AFFILIATIONS

- ❖ Technical Board, *Chemical Engineering Progress*, publication of AIChE
- ❖ Board of Experts, *Environmental Manager's Compliance Advisor*, a BLR publication
- ❖ Past President, Tappan Zee Section AIChE
- ❖ Member AWMA

REPRESENTATIVE PUBLICATIONS

- ❖ "Investing Green in Hard Economic Times", *Environmental Manager's Compliance Advisor*, accepted for publication April 2009.
- ❖ "Climate Change As a Business Opportunity", *Chemical Engineering Progress*, Jan. 2009
- ❖ "Potential Changes on Green Claims", *Environmental Manager's Compliance Advisor*, June 2008
- ❖ "Climate Change Science and Policy", *Environmental Manager's Compliance Advisor*, Mar. 2006
- ❖ "Changes in California's VOC Approach", *Environmental Manager's Compliance Advisor*, Mar. 2005
- ❖ "Preparing an Air Emissions Inventory", *Chemical Engineering Progress*, Nov. 2003
- ❖ And dozens of others.

RECENT PRESENTATIONS

- ❖ Teach advanced environmental sciences course at New York Medical College on Air Pollution and its Potential Public Health Effects.
- ❖ "Climate Change and the Business World", New York Univ. Stern Business School, Feb. 2009
- ❖ "Climate Change as an Opportunity or a Threat to Airports", Florida Airport Council Environmental and Noise Conference, Jan. 2009.
- ❖ "Climate Change Strategies", Business Council of New York State, Fall Environmental Conference, Oct. 2008.
- ❖ "Carbon Capture and Storage for Clean Coal Power Plants" Electric Utility Environmental Conference, Jan. 2007.
- ❖ Climate Change and the Engineering Profession, AIChE and NYSSPE conference, Mar. 2006
- ❖ And dozens of others.