



Terra Green Energy, LLC is a torrefaction technology licensing company.

Terra Green Industries, LLC is the builder, owner and operator of the Commercial Torrefaction Demonstration Facility that is being built in McKean County, Pennsylvania.

The principals and officers of Terra Green Energy, LLC Management Team includes:

Harry Halloran - Chairman of the Board and majority owner

Harvey Golubock - Chief Executive Officer

Thomas P. Causer - President and Chief Operating Officer

Michele D. Alfieri-Causer - VP and Chief Administrative Officer

This team has been working on torrefaction since early in 2008. To-date well over \$500K has been invested in a combination of cash and payment-in-kind services rendered to the company. Brief biographies of each individual are attached.

Mr. Halloran, who is the owner of the American Refining Group along with several other companies, has focused on energy most of his professional life with the ownership of not only the ARG petroleum refinery in Bradford, but a wind company and now a biomass company.

Mr. Golubock, who currently serves as President and Chief Operating Officer of the American Refining Group, has held positions of increasing executive authority in Witco prior to his current role at ARG. As a Witco executive and as President & COO of ARG Mr. Golubock has experience in technology, technology licensing, process guarantees, engineering, and administration.

Mr. Causer, who serves as President and Chief Operating Officer of Terra Green Energy, LLC began his career at Quaker State Oil Refining Corporation in the late 1970's. Upon the sales of the Farmers Valley and Emlenton refineries to Petrowax PA Inc. he was promoted Plant Manager of the Farmers Valley refinery and then to VP Manufacturing with responsibilities at both refineries. With the sale of Petrowax to Astor Corporation he became VP, General Manager of Astor's refining division. Astor Corporation eventually became part of AlliedSignal/Honeywell Corporation. His responsibilities included all refinery operations, process and project engineering, product design and formulation,

HS&E (health, safety, and environmental compliance), human resources, feedstock acquisition, and semi-refined product sales.

Ms. Michele D. Alfieri-Causar, Esq. is an attorney licensed to practice in Ohio and Pennsylvania. As an attorney for over twenty years she has held numerous elected and administrative positions including eight (8) years as District Attorney, County Solicitor, and County Administrator where she was responsible for an administrative system of over 200 employees and a budget of over \$28 million. Achievements included implementing the county's first human resources system, county wide computerization and broadband system, and the county's first financial management system.

Altogether, the executive team brings over 100 years of executive management, operations management, engineering management, and administrative expertise to the company.

## Partners/Participants on the Project

The entities partnering on the torrefaction process are as follows:

Terra Green Energy, LLC – a privately held corporation owned by Mr. Harry Halloran, Tom Causer, and Michele Alfieri-Causser. This company holds the intellectual property of the torrefaction system design.

American Refining and Biochemical, Inc. (owned by Harry Halloran, Jr.)



BioEnergy Consulting – Tom Causer & Michele Alfieri-Causser, Principals



*BioEnergy Consulting*

American Refining Group, Inc. -refinery located in Bradford, PA (also owned by Mr. Halloran)



Advanced Recycling Equipment, St. Mary's, PA (supplying the combustor)



Wyssmont Company, Inc., Ft. Lee, NJ (supplying the torrefaction reactor)

Wyssmont®

## **Biography Information - Mr. Harry Halloran**

Mr. Halloran is the Chairman and Chief Executive Officer of American Refining Group. He is also the Chairman and CEO of ARG Resources and American Refining and Biochemical, Inc. Mr. Halloran is a graduate of the University of Pennsylvania with a degree in Civil Engineering. After graduating, he entered the Augustinian seminary for four years and earned an M.A. in Theology. Mr. Halloran is the founder and CEO of Energy Unlimited, Inc. a company involved in the renewable energy field and has served on the Board of The American Wind Energy Association. Other past positions include Trustee of Villanova University, College of Commerce and Finance, and Trustee of The Academy of Natural Sciences. He is also the Founding Trustee of The Enlightened World Foundation and the Halloran Foundation. He is a member of the Caux Round Table and serves on the Board of The Journal of Ecumenical Studies.

Mr. Halloran founded the Halloran Philanthropies in 2007 with the belief that business is one of the most powerful drivers for positive social change. The purpose of the Halloran Philanthropies is to help create a healthier world community that promotes economic development through microfinance, global business ethics and community service to revitalize low-income neighborhoods.

Mr. Halloran is the Chairman of the Board of Directors of Terra Green Energy, LLC

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## Biography Information – Mr. Harvey Golubock

**Harvey L. Golubock** is the Chief Executive Officer of Terra Green Energy, LLC. He is also the President and Chief Operating Officer of American Refining Group (ARG). He was hired by ARG in 1997 when the company purchased the Bradford Refinery from Witco Corporation. Mr. Golubock joined Witco in 1969 and was Group Vice President of Witco's Lubricants group from 1990 until its sale in 1997. From 1986 to 1990, Mr. Golubock was Vice President Supply and Distribution, Petroleum; from 1981 to 1986 he was Vice President and General Manager, Pioneer Division, and from 1980 to 1981 was Vice President Corporate Communications.

Prior to 1980 he held a series of administrative and staff functions, including Assistant to the Executive Vice President, Petroleum, and Assistant to the President. Mr. Golubock's experience at Witco also included two years spent in Corporate Planning where he worked on division and corporate plans and acquisitions.

Mr. Golubock is Chairman of the Board of Beacon Light Behavioral Health Systems; Co-Chairman of the Bradford Area Alliance; and Co-Chairman of the Campaign for the 50<sup>th</sup> Anniversary of the University of Pittsburgh at Bradford where he serves on the Executive Committee of the Advisory Board and on its Governance Council.

Mr. Golubock received a B.S. degree in chemical engineering from City College of New York, and an M.B.A. degree from Rutgers University. He resides in Bradford, PA and Suffern, NY

## About the Principals of BioEnergy Consulting

Thomas P. Causer is an experienced energy and manufacturing executive in the refining and specialty wax industry. He began his career in a refinery laboratory for Quaker State eventually becoming Plant Manager, VP Manufacturing, and Division VP & General Manager for Petrowax and Astor Corporation. Most recently he has held the position of VP Engineering & Operations for Losonoco Ltd. He has a BS degree from the University of Pittsburgh, Bradford Campus, and an MBA from St. Bonaventure University, Allegany, NY. Mr. Causer is the President of Terra Green Energy, LLC.

Michele D. Alfieri-Causar, graduated from Purdue University with a B.S. in Food Science, (Commercial Processing and Manufacturing) and with a Juris Doctorate degree from Ohio Northern University. An experienced administrator and attorney, she has practiced law in McKean County for over 20 years, spending 8 years as the elected District Attorney. In her most recent experience as County Administrator, she was responsible for the day to day operations of McKean County's 30 million dollar operation and had 22 direct reporting subordinates. She managed numerous capital improvement projects and created and managed a Human Resources Department. Mrs. Alfieri-Causar is Vice President and Chief Administrative Officer of Terra Green Energy, LLC.

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