



Finally. A smart, clean solution.



Masada Resource Group, LLC

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CORPORATE OVERVIEW

Masada Resource Group, LLC, is a competitive and responsible provider of proven and environmentally friendly waste technology solutions.

As a private company, Masada principals have worked with over 300 local government entities to develop extensive infrastructure operations, including environmental services, cable television, telecommunications, and electronic security. Over the past 35 years, Masada management has built and operated over \$1.5 billion in assets in 18 U.S. states and seven major cities in the U.K.

Today, Masada has a pipeline of international waste-to-energy projects in over 40 countries. This pipeline is supported by the clean energy technology owned by Masada.

Masada's core CES OxyNol process converts ordinary household garbage into fuel-grade ethanol using acid hydrolysis.

Additional waste management technologies available to Masada include pulp mill sludge-to-ethanol, cellulase enzyme production, wind-to-hydrogen power, and municipal solid waste pelletization.

Masada's principals and managers have invested more than \$55 million to date for the development of patented processes with international protection and for the enhancement of its core process so to serve as a reproducible engineering template. Patents are renewed, as needed, based upon market conditions and other factors.

Masada has assembled a team of world-class professionals, risk mitigation experts, information technology firms, and vendors for construction, start-up and operation of CES OxyNol facilities for licensees of its waste-to-fuel technology. This team forms the cornerstone of Masada's performance assurance program.

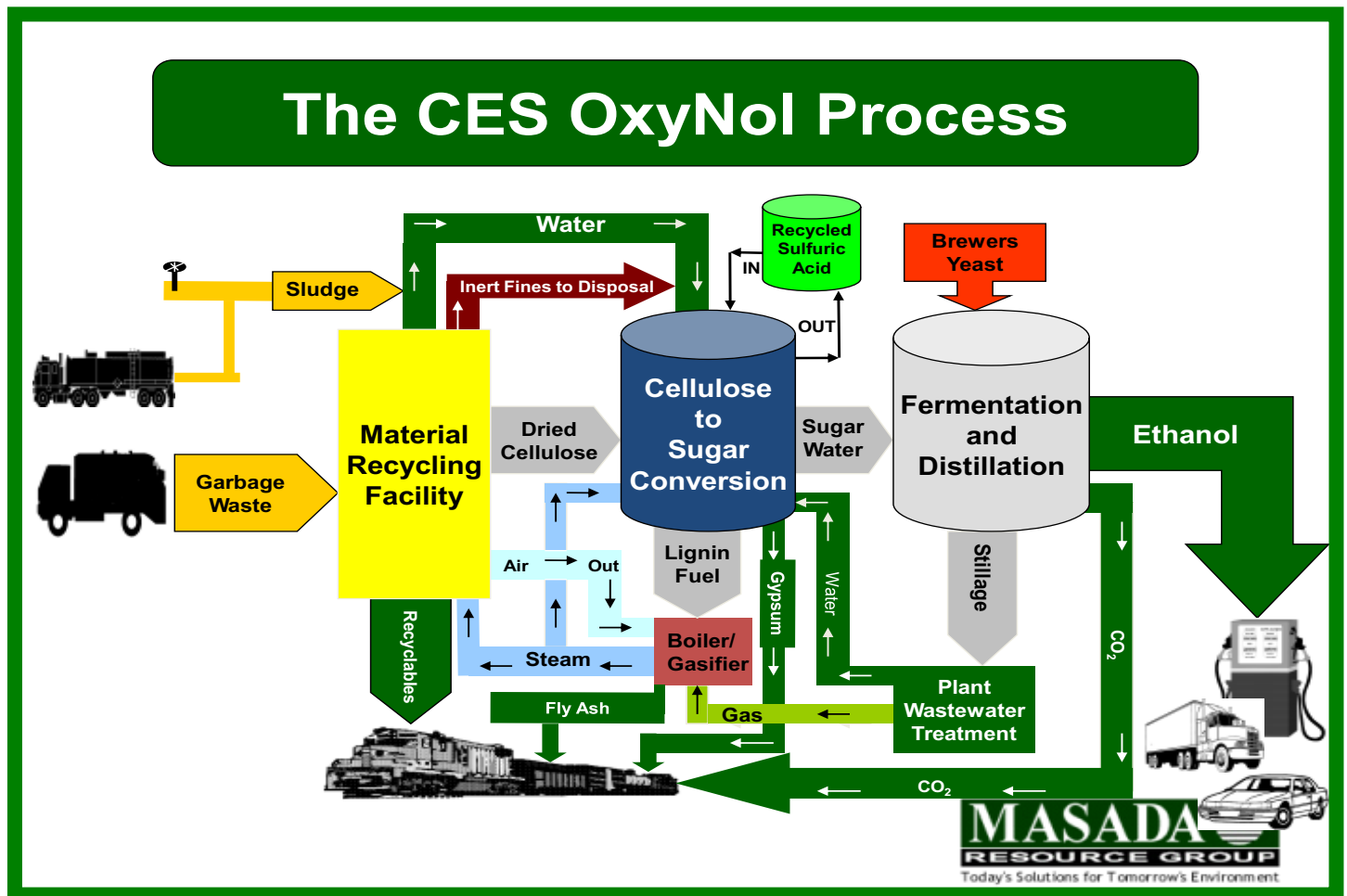
The company utilizes an experienced, persistent executive team headed by, Donald V. Watkins, the designated Manager of the Masada family of companies and Watkins-Pencor, LLC. This team, along with Masada's strategic business alliance partners will assist a CES OxyNol licensee in carrying out the required project development activities necessary to achieve commercial operations.

Masada has won numerous awards and recognition as an industry leader in the international waste-to-clean fuels technology industry. The world finally has a smart, clean solution to waste management and the production of clean fuels.

MASADA'S CORE TECHNOLOGY

Masada's core CES OxyNol waste-to-ethanol process was proven at industrial scale during WWII. Four years of testing with the Tennessee Valley Authority ("TVA") demonstrated the process's viability and flexibility. Twenty-first century updates use off-the-shelf equipment to minimize risk. Key process systems and hardware are in daily operation in similar applications and have been thoroughly tested at a large-scale demonstration plant.

Masada and its core process have successfully "passed" substantial due diligence by numerous third parties, including: (1) environmental regulatory agencies, (2) U.S., U.K. and Swiss engineering firms, (3) bond underwriters, (4) engineering, procurement, and construction ("EPC") contractors, (5) major equipment vendors, and (6) potential insurance providers. The process is illustrated below.

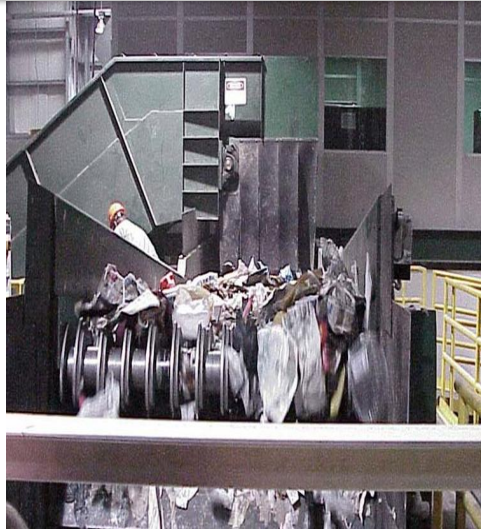


The CES OxyNol process involves five steps whereby the cellulose in municipal wastes, in the form of hydrocarbons, is converted into sugar (primarily glucose). The sugar is subsequently fermented into alcohol, which is denatured to produce fuel-grade ethanol. The five steps are detailed on the next two pages.

THE CES OXYNOL PROCESS AT WORK

STEP 1: FEEDSTOCK PREPARATION

The facility is designed to remove non-cellulosic material from the waste stream. This creates the cellulosic rich feedstock needed for the chemical reaction during hydrolysis.



STEP 2: HYDROLYZATION AND CELLULOSE CONVERSION

Hydrolysis is a chemical reaction that breaks down the cellulose into a slurry containing sugars, sulfuric acid, lignin and non-hydrolyzed materials. In the hydrolysis phase, the feedstock is treated with concentrated sulfuric acid which acts as a catalyst converting the cellulose and hemicellulose to glucose and mannose.



STEP 3: ACID RECOVERY

A critical element of the OxyNol Process is the recovery of the sulfuric acid utilized in the hydrolyzation. The sulfuric acid/sugar solution from the hydrolysis phase is fed into an ion exclusion acid/sugar separation unit to separate the acid and sugar solutions. The dilute acid solution is reconcentrated through evaporation and is reused in the Process. The sugar solution is transferred to the fermentation area.

STEP 4: FERMENTATION

The process design incorporates a traditional batch fermentation process to convert the sugar to ethanol and carbon dioxide. During fermentation, the sugar solution recovered from the separation phase is converted to ethanol and carbon dioxide using the biological action of yeast. The carbon dioxide is collected and processed to commercial standards for resale in an on-site unit.



STEP 5: DISTILLATION

Distillation separates the ethanol from fermented mash and water to produce pure ethanol. The fermented mash is distilled in a two-phase process. In the first phase, the ethanol is dehydrated by distillation to approximately 90% concentration (180 proof). In the second phase, the ethanol is further dehydrated to 100% concentration (200 proof) by using a molecular sieve. After the ethanol is transferred to a storage tank, it is denatured with gasoline, converting it to fuel grade ethanol. The denatured product is stored until shipment.

MASADA'S TECHNOLOGIES MEET WORLDWIDE MARKET NEEDS

More than 90% of the municipal wastes are recycled or beneficially reused.



Renewable clean fuel is produced in urban markets where it is needed.



Uncontrolled dumping and burning of waste are prevented.



No “food vs. fuel” issue as with other ethanol production technologies. There is also no use of arable land.



New “green” jobs for local infrastructure and economic development are created.



MASADA'S GREEN ENERGY PROGRAM IS READY TO SCALE

CES OxyNol Patented Process

The CES OxyNol process is a unique and proprietary technology that converts municipal solid waste and sewage sludge into ethanol or other biofuels.

Masada's principals have invested \$55 million in technology development.

The company has secured 9 domestic and 60 international patents for its core process. Patents are renewed, as needed.

The process generates eligible carbon credits for projects located in signatory countries to the Paris Agreement.

Environmental Protection Agency Permitting Secured

The U.S. EPA and NYSDEC determined the appropriate classification for Masada's waste-to-ethanol technology and concluded that it is not an incinerator or a chemical plant.

This EPA designation is significant in terms of public acceptance of Masada's projects and greatly accelerates the company's ability to secure major permits for its facilities.

Initial permits for the construction of the first waste-to-ethanol facility was obtained in 2000 and renewed in 2005. The permits provide assurance that Masada's waste-to-energy process is environmentally safe.



Demonstration Facility Operated with Institutional Partner

The CES OxyNol technology was proven at industrial scale during WWII.

Four years of testing with TVA demonstrated the viability and flexibility of Masada's core technology.

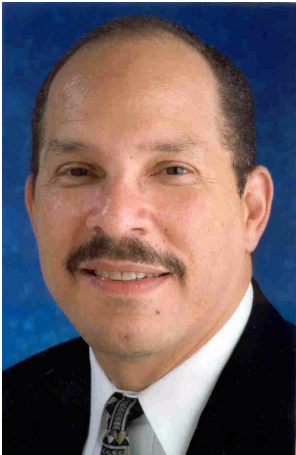
Facility Design, Finance and Execution

Masada has developed an extensive engineering and design package that is adaptable for commercialization worldwide. The company can assist the licensee or project owner in obtaining suitable project financing relationships with tier one international infrastructure project financing institutions around the world.

Masada's engineering and design resources are readily available for commercial deployment.

MASADA'S SENIOR MANAGEMENT

Donald V. Watkins - Chairman and CEO



In 2000, Mr. Watkins co-founded Alamerica Bank in Birmingham, Alabama, a full-service bank that never sought or received federal bailout money during the Great Recession of 2008. Mr. Watkins owns Watkins-Pencor, LLC, the designated Manager of the Masada family of companies. Mr. Watkins also owns Donald V. Watkins, P.C., a California-based project development and consulting company. Mr. Watkins holds a Bachelor's degree from Southern Illinois University and a Juris Doctorate degree from the University of Alabama. Mr. Watkins retired from the active practice of law in 2019. Mr. Watkins is also a well-respected online journalist who published articles of national and international interest on public policy issues at: www.donaldwatkins.com.

Ralph Malone - Vice President for Global Program Management



Mr. Malone is responsible for market development and human resource planning and alignment. He is the past owner of metal fabrication and machining businesses serving the automotive and industrial sectors. He is a retired National Football League defensive end. Mr. Malone earned a B.S. degree in Industrial & Systems Engineering from the Georgia Institute of Technology in Atlanta, GA. He has attended executive management

programs at Dartmouth (Amos Tuck Business School) and Northwestern University (Kellogg Graduate School of Management). Mr. Malone is a member of the Board of Advisors - Blue Creek Investment Partners (Huntsville AL). He has held directorships with the Alabama Robotics Complex, Madison County (AL) Executive Airport Authority and Boys & Girls Clubs of Alabama

David Minkin - General Counsel



Mr. Minkin has been Masada's outside General Counsel for over two decades. He is a graduate of Harvard Law School and Harvard Business School. He is an adjunct professor at Emory Law School.

Additional information about Mr. Minkin is presented at: www.theminkingroup.com.

Dr. Amin Y. Ghanem - General Manager for North Africa and the Middle East



Dr. Ghanem serves as the general manager for all Masada-related projects in North Africa and the Middle East. He is founder and CEO of Assurity Satellite Technologies, LLC, Caredwara Space Systems and Vantage Corp.

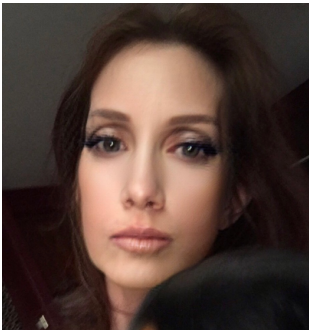
In the aerospace industry, Dr. Ghanem has facilitated the development of new communications satellite programs and networks and has acted on behalf of the US

Department of Commerce and Boeing to secure major airliner orders from foreign carriers.

Dr. Ghanem has 30 years of commercial and residential property investment and development experience in Europe and the US and has 18 years of experience as a teaching and practicing surgeon in Europe, where he is founder of and investor in a chain of specialty surgery centers.

Dr. Ghanem holds a bachelor's degree in medicine and surgery from the University of Valencia (Spain), an MBA from Mercer University, and a PhD and MD from the University of Barcelona (Spain).

Lisa R. Swoboda - Chief Risk Mitigation Consultant



Ms. Swoboda is an experienced underwriting specialist with a demonstrated history of excelling in the insurance industry. Skilled in Property & Casualty Insurance, Agribusiness Insurance, Foreign Coverage, Commercial Insurance, and Team Building.

Ms. Swoboda is a strong business development professional who has worked as an executive underwriter on major commercial insurance packages for Grange Insurance Company and Travelers Insurance. She was a world risk foreign accounts underwriter for Chartis/AIG. Ms. Swoboda was a program underwriting specialist for Fireman's Fund Insurance Company. She was also a senior commercial lines underwriter for Allied/Nationwide Insurance Company.

Ms. Swoboda received her Bachelor of Science in Finance from the University of Nebraska (Lincoln).

MASADA'S RESILIENCE AND STRENGTH IN THE FACE OF ADVERSITY

With the election of Donald J. Trump as president of the United States in November of 2016, America entered a dark and vicious period of tribal politics between Republicans and Democrats.

After assuming office, President Trump disparaged African nations by calling them “Shit-Hole” countries. Throughout his one term in office, Trump and his political allies repeatedly demeaned and castigated Americans of color, women, Muslims, LGBTQ Americans, Gold Star families, Spanish-speaking migrants, and non-Christians.

Trump also promoted the concept of “state’s rights” in Republican-controlled states. This action freed many white public officials in Southern states like Alabama to return to open discrimination against women and Americans of color.

Trump’s Department of Justice targeted outspoken African-American leaders who fought to advance and protect civil rights for Americans of color. Many were railroaded in federal courts in the South.

Masada and Watkins-Pencor were founded and headquartered in Alabama. Under Trump’s presidency, Alabama has proudly redeemed and restored its heritage as the “Heart of Dixie” and Cradle of the Confederacy.”

Watkins heads an international company (Masada) that was the 2015 recipient of the Governor’s Trade Excellence Award, which recognizes Alabama companies for excellence in exporting. Masada’s work in Sub-Saharan Africa was featured in the July 2014 edition of the London-based *International Finance and Legal Review*, a prestigious subscription publication for European and African business leaders. Additionally, Watkins and another Masada executive were invited in 2014 to join the World Bio Markets Advisory Board in Amsterdam.

Yet, Trump’s federal prosecutors in Birmingham, Alabama targeted Watkins for harassment, persecution, and prosecution, beginning in 2017. They convicted Watkins on phony charges and imprisoned him from 2019 to 2022.” Watkins’ ordeal is featured in, [“Masada: The Demand for Clean Fuel Conquers All.”](#)

After his release from prison on August 25, 2022, Watkins relocated to California. He continues to lead Masada and advocate for political reforms and positive socio-economic changes for people of color in America.