



# (MSW) Hydrogen Devolatilization Plant

# AGENDA

- I. About the Company
  - Services
- II. Management Team
- III. Strategic Partners
- IV. Market: Green Hydrogen
- V. The Project
  - Principal Agreements
  - Permits
  - Location
- VI. Corporate Chart
- VII. Financial Information
- VIII. Use of Proceeds





# I. THE COMPANY

This unique consortium is integrated by well renowned companies in the renewable energy sector, such as LP Daniel Engineers and Constructors, Inc., Bethel Energy, LLC, (RET) Remote Earth Technologies., all have been conceptualized with the goal to develop and implement advanced technologies that can have an impact on our global quest for clean energy and a green planet.

This group brings to the project more than a century of experience with proven capabilities such as :

- Engineering and management professional of increasing responsibility and accomplishment.
- Engineering/project management involved in an intricate and technical array of projects, including development of gasification methodologies, compressed natural gas development, hydro-electric development, tilt-up construction, refinery expansion, thermal solar power plant development, cross-country pipeline installations and power plant construction.
- Demonstrated ability to develop highly effective management strategies; broad experience in developing projects from conception through to operation and profitability;
- Strong ability to analyze, develop and institute needed procedures and policies. Outstanding interpersonal relations and tested negotiation skills combine to provide improved customer relations and the building of lasting and supportive relationships.
- Managerial and leadership experiences in the areas of manufacturing operations, quality control and quality assurance, human resources, employee development, and safety/health/environmental services

## TRACK RECORD

- Designed, built and operated nine utility-scale solar power plants employing solar parabolic trough or Solar Energy Generating Systems (“SEGS”) technology. The Project’s design is an evolution of the design used in the SEGS plants, a complex of nine plants totaling 354 MW located in the Mojave Desert of California, the largest and most successful solar thermal installation in the world to date. These plants were constructed between 1984 and 1990. Although the SEGS plants were thought to have a 20-year life, each continues to operate today at over 100% of rated capacity. Total Investment: 854 Million USD
- LP Daniel has been recognized on the Discovery Channel as builder of 90% of the worlds solar power. He received "The Outstanding Young Man of America Award" in 1985 for the development & construction of the world's first commercial solar power plant. The SEGS VII project received the American Society of Mechanical Engineer's Outstanding Project of the Year Award.

# I. THE COMPANY

## SERVICES



### MANAGEMENT

#### GENERAL

- Finance and Administration
- Information Technology
- Strategic Planning

#### INFRASTRUCTURE

- Construction



### OPERATIONS

#### DEVELOPMENT

- Design
- Construction
- Gasification Technology

#### COMMERCIALIZATION

- Distribution and Commercialization



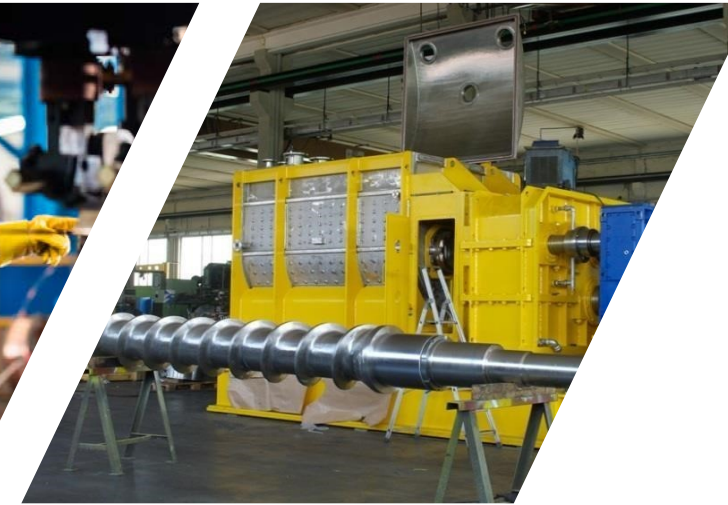
### FINANCE

#### STRATEGY

- Market Analysis
- Organizational Development
- Recruitment Strategies
- Expert Price Analysis

#### FINANCING

- Financial Engineering to obtain funding



### HUMAN RESOURCES

- Selection
- Legal
- Logistics
- Training
- Health
- Confidentiality

## II. MANAGEMENT TEAM

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**Leonard P Daniel**

Chief Executive Officer and President

Leonard P. Daniel: Chairman, CEO, Founder, Managing Member and Director of Bethel Solar LLC; Chairman, CEO, Managing Member and Founder of Bethel Solar Mexico LLC; Chairman, CEO, Managing Member and Founder of Bethel Energy, LLC; Director, COO and Founder of Bethel Reflective Corporation and Chairman, CEO and Founder of L.P. Daniel Engineers and Contractors Inc.. He has overall responsibility for engineering, construction and operation.



**Marvin R. (Ron) Baker**

Chief Technical Officer

Mr. Baker has over twenty years of management experience with a strong interest in the development of gasification methodologies. Prior to exploring gasification technologies as a solution, he worked with Michelin Tire Corporation for over fifteen years as a senior management executive responsible for North American field evaluation. After leaving Michelin, Mr. Baker held a series of several Plant Manager and Waste to Energy consulting positions and Technology Development.



**Terry Konja**

Executive Vice President Marketing

With over 30 years of experience in the financial sector, Mr. Konja has a long history of bring projects to the market place. Through his international experiences he has a list of former clients that bring a myriad of diverse background to his market options. He will give the project a wide array of options to promote it products through out the world

# III. STRATEGIC PARTNERS

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Department of Development Services Bldg.  
2351 W. 26th Street  
Yuma, AZ 85364



**John Gay**

Director of Public Works

Imperial County Planning and  
Development Services

**Joe Lopez**

Director of Public Works

Public Works Manager  
Solid Waste Division



**Jim Minnick**

Planning Director

Imperial County Planning and  
Development Services

**Tim Kelly**

President/CEO

Imperial Valley Economic Development  
Corporation

# III. STRATEGIC PARTNERS

GOVERNMENT



FUNDER/INVESTOR



TECHNOLOGY



DESIGN



CONSTRUCTOR

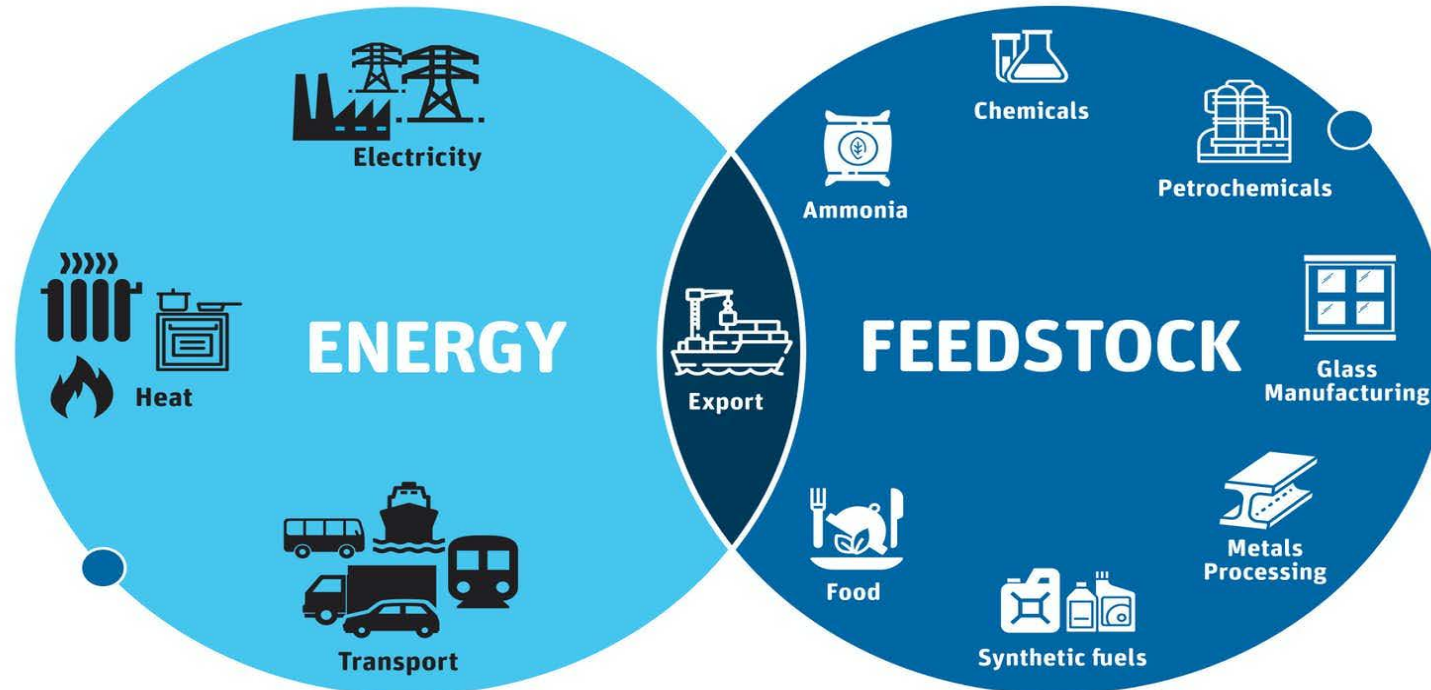


RAW MATERIAL SUPPLIER

# IV. MARKET GREEN HYDROGEN

Hydrogen (H<sub>2</sub>) has a high potential for future energy market. Recently H<sub>2</sub> has received significant attention for its use in various applications due to zero-emission risk. H<sub>2</sub> can be used in applications such as; in electricity generation, in H<sub>2</sub> fuel cell electric vehicle (FCEV), in manufacturing industries, in fertilizer production, and most promisingly in energy transportation applications in the form of liquid H<sub>2</sub> or converting it into ammonia (NH<sub>3</sub>). H<sub>2</sub> exists naturally with different hydrocarbons such as methane (CH<sub>4</sub>), propane (C<sub>3</sub>H<sub>8</sub>), ethane (C<sub>2</sub>H<sub>6</sub>)

## APPLICATIONS FOR HYDROGEN

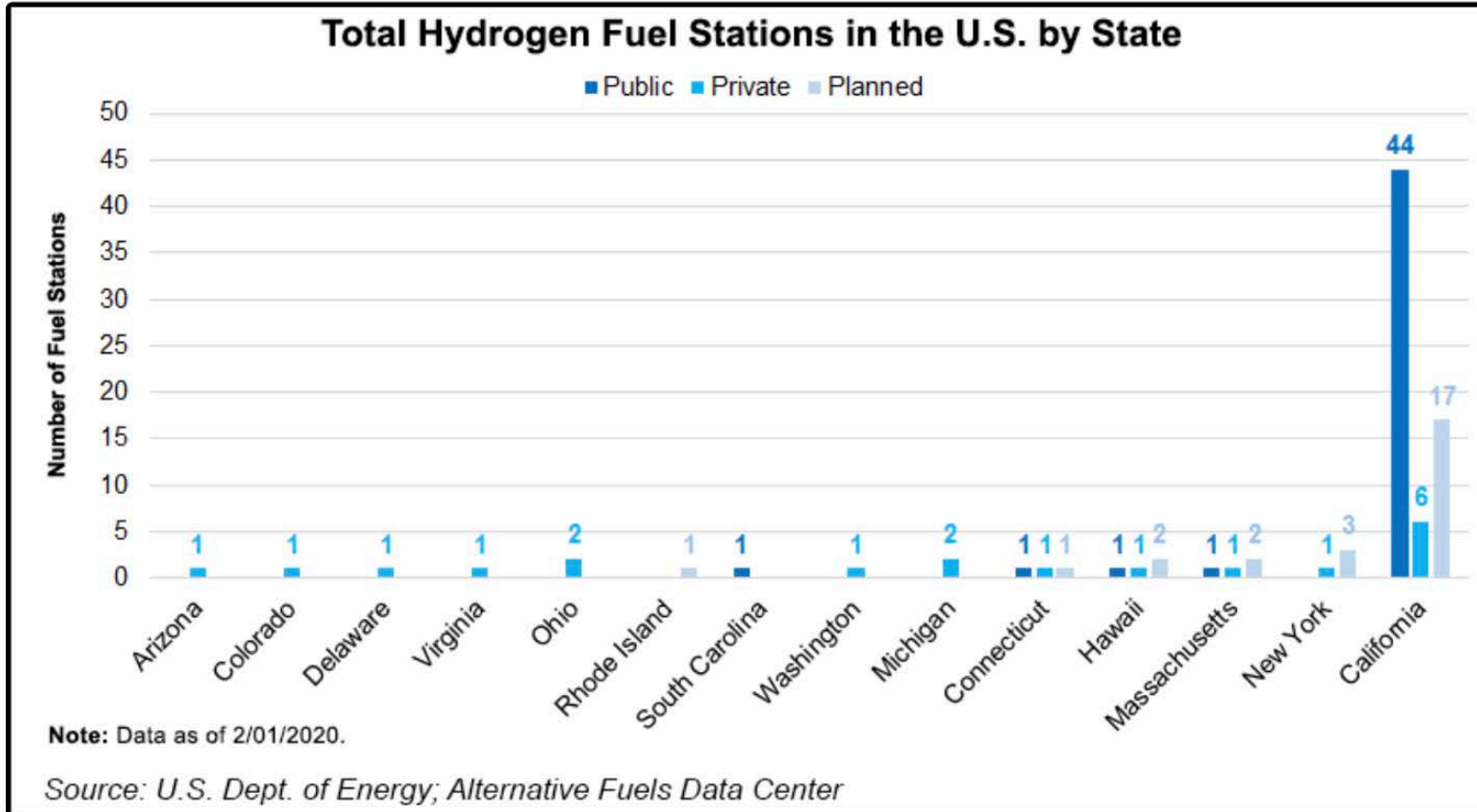


# IV. MARKET GREEN HYDROGEN

SB 18, as amended, Skinner. Green hydrogen.

The California Global Warming Solutions Act of 2006 designates the State Air Resources Board as the state agency charged with monitoring and regulating sources of emissions of greenhouse gases. The state board is required to ensure that statewide greenhouse gas emissions are reduced to at least 40% below the 1990 level by 2030. The act requires the state board to prepare and approve a scoping plan for achieving the maximum technologically feasible and cost-effective reductions in greenhouse gas emissions and to update the scoping plan at least once every 5 years.

This bill would require the state board, by December 31, 2022, as a part of the scoping plan and the state's goal for carbon neutrality, to prepare a strategic plan for accelerating the production and use of *hydrogen*, including a specific plan to accelerate production and use of green hydrogen, as defined, in California and an analysis of how curtailed power *electrical generation* could be better utilized to help meet the state's greenhouse gas emissions reduction goals.



# IV. MARKET GREEN HYDROGEN

## Less Greenhouse Gas Emissions

Gasoline- and diesel-powered vehicles emit greenhouse gases (GHGs), mostly carbon dioxide (CO<sub>2</sub>), that some scientist believe contribute to climate change. Fuel cell vehicles (FCVs) powered by pure hydrogen emit no tailpipe GHGs, only heat and water.

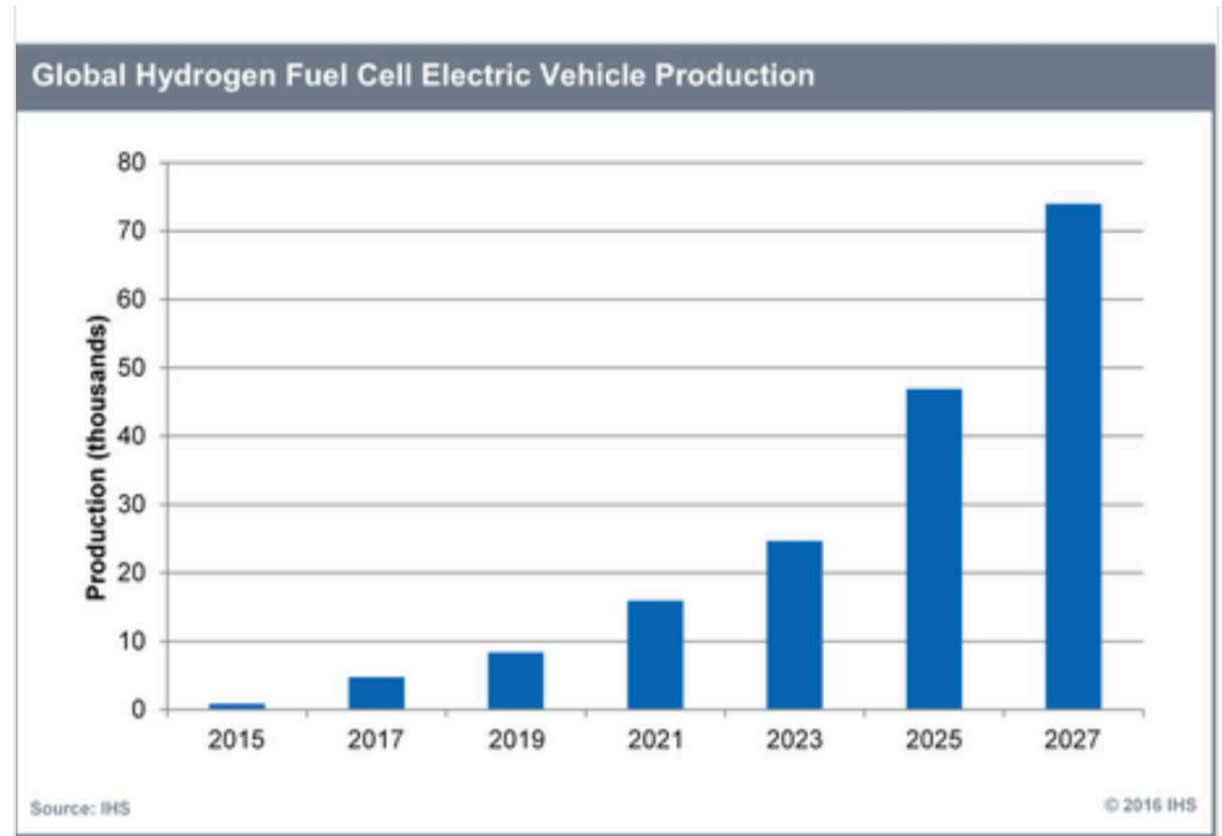
Producing the hydrogen for FCVs can generate GHGs, depending on the production method. Still, it generates much less GHGs than conventional gasoline and diesel vehicles.

## Reduced Oil Dependence

FCVs could reduce our dependence on foreign oil since hydrogen can be derived from domestic sources. These sources include natural gas and coal, as well as renewable sources such as water, biogas, and Waste-to-hydrogen. That would make our economy less dependent on other countries and less vulnerable to oil price shocks from an increasingly volatile oil market.

## Less Air Pollutants

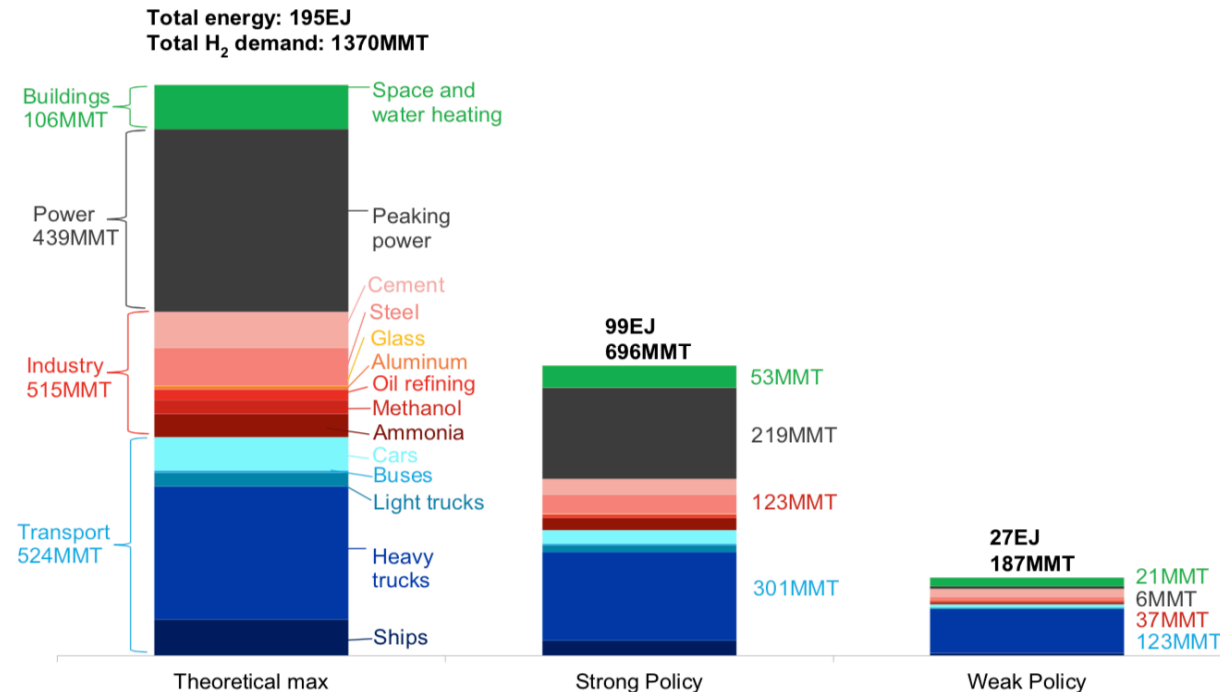
Highway vehicles emit much of the air pollutants that contribute to smog and harmful particulates in the U.S. FCVs powered by pure hydrogen emit no harmful pollutants. Producing hydrogen from fossil fuels causes some pollutants, but much less than the amount generated by conventional vehicles.



**Figure 5: Global Hydrogen Fuel Cell Electric Vehicle Production [Source: IHS]**

# IV. MARKET GREEN HYDROGEN

Figure 11: Potential demand for hydrogen in different scenarios, 2050



Source: BloombergNEF. Note: Aluminum demand is for alumina production and aluminum recycling only. Cement demand is for process heat only. Oil refining demand is for hydrogen use only. Road transport and heating demand that is unlikely to be met by electrification only: assumed to be 50% of space and water heating, 25% of light-duty vehicles, 50% of medium-duty trucks, 30% of buses and 75% of heavy-duty trucks.

## Producing hydrogen at the scales required will, however, be challenging

Meeting 24% of energy demand with hydrogen in a 1.5 degree scenario will require massive amounts of additional renewable electricity generation. In this scenario, around 31,320TWh of electricity would be needed to power electrolyzers – more than is currently produced worldwide from all sources. Add to this the projected needs of the power sector – where renewables are also likely to expand massively if deep emission targets are to be met – and total renewable energy

# V. THE PROJECT

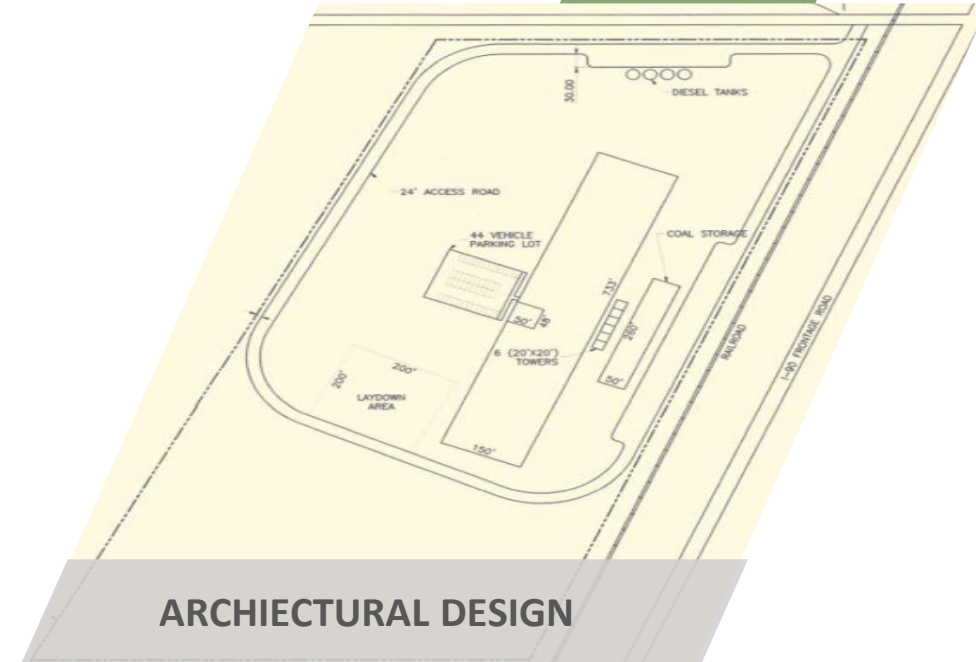
## OBJECTIVE

Construct and operate the (6) MSW Devolatilization Plants, (1) 50 MW Solar Field to produce Green Hydrogen within the boundaries of the town of Wellton in the State of Arizona, Country of the United States. The projects infrastructure will be used to carry out the following activities:

- I. Land/Building
  - Site Costs
  - Land Acquisition
  - Site Preparation, Parkways and Roadways
  - Building Construction
  - MSW Storage Building and Conveyor System
- II. Equipment
  - RET Devolatilization Units (RET Reactor, Sorting, Drying, Energy Node and Syngas Enhancement)
  - Tank Farm
  - Power Generation
- III. Ancillary Equipment
  - Trucks
  - Loaders
  - Fork Lifts
  - Shop Tools

## PRINCIPAL CHARACTERISTICS

- I. Construction of (6) MSW Devolatilization, (1) 50 MW Solar Field Plant with the following capacities per day:
  - Green Hydrogen: 56,000 kg a day
  - Solar Energy : 40 MW per Hour
- II. Green Hydrogen Purchase Agreement with Hyundai Glovis to purchase total production of Green Hydrogen
- III. Transportation all raw material (MSW) from source to gasification plant will be done by railway.



# INDUSTRIAL/AGRICULTURE DEVELOPMENT LAND IN WELLTON, AZ



## OFFERING SUMMARY

**PRICE IMPROVEMENT!!!**

**PRICE: \$3,723,000**

**LAND SIZE: ±212.61 ACRES**

**PARCEL NO: 201-03-018;019,201-02-009;  
010;023;025**

**ZONED: RA-40**

**GENERAL PLAN: AGRICULTURAL/  
RURAL PRESERVATION**

## PROPERTY OVERVIEW

*OVER 200 ACRES OF LAND AVAILABLE  
FOR SALE IN WELLTON, AZ!*

- INDUSTRIAL DEVELOPMENT UNDER LAND USE PLAN ON PORTIONS ±56 ACRES
- APPROX. 1.249 MILES OF FRONTAGE ON OLD HIGHWAY 80
- POSSIBLE RAILROAD SPUR - BUYER TO VERIFY UNION PACIFIC
- LOCATED ±3.85 MILES EAST OF WELLTON, AZ
- SERVICED BY THREE LARGE INDUSTRIAL WELLS
- SMALL MOBILE HOME CONVEYING WITH PROPERTY AS-IS

# V. THE PROJECT

## PRINCIPAL AGREEMENTS

### I. Joint Venture

- Date effective: June 2021
- Parties: Bethel Energy, Reformed Earth Technologies, City of Yuma, Imperial County, Hyundai Glovis
- Objective: Construct and operate (6) MSW Green Hydrogen Devolatization Plants and (1) 50 MW Solar Field
- Agreement Type: Profit Sharing Agreement
- Managing Development Member: Bethel Energy LLC
- Managing Financial Member:
- City of Yuma Development contributions: Real Property, MSW
- Revenue sharing :
- Signed: April, 2021

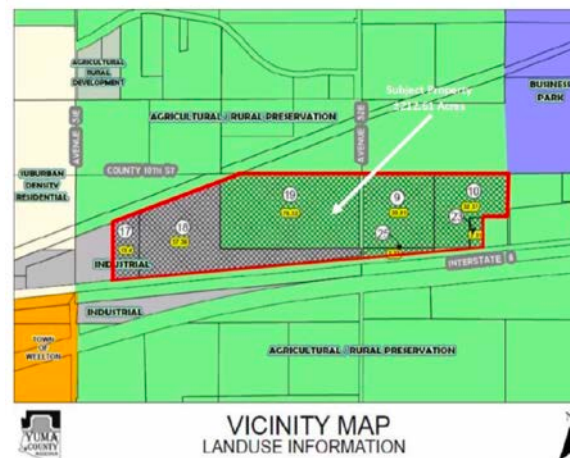
### II. Land

- Parties: Bethel Energy LLC, Reformed Earth Technologies, County of Yuma, Imperial County
- Location: Wellton, AZ 85356
- Land size: 213 Acres
- Signed: April, 2021

### III. Supply

- Parties: City of Yuma/ Imperial county
- Quantity: 500 Tones Per Year
- Source: MSW
- Signed: April, 2021

## LOCATION: GASIFICATION PLANT



# V. THE PROJECT

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## PRINCIPAL AGREEMENTS

### IV. Off takers

- Parties: Hyundai Glovis and Bethel Energy, LLC
- Products: Green Hydrogen
- Quantity: (30) million kilograms per year
- Price:
- Term:
- Signed:

## CONTRACTUAL LIABILITY POLICY

### I. Output Performance Warranty

- Parties:
- Coverage: ( ) will pay Claims for a Loss in the Measurement Period for which the Named Insured is obligated to pay arising out of the performance of the Insured Measures pursuant to the Performance Contract relating to such Project
- Guarantee Term:
- Guaranteed Value:
- SIR:
- Project Sublimit:
- Aggregate Master Policy Limit:

## PERMITS

### I. City of Yuma

- Construction Permit
- Approved by:
- Authorized Construction: MSW Green Hydrogen Electrical Production Plant
- Permit Number:
- Owner: Bethel Energy
- Bond Number:
- Expiration
- Signed by:

### II. (RET) Reformed Earth Technologies

- Construction Permit
- Approved by:
- Authorized Construction: MSW Green Hydrogen Fuel Electrical Production Plant
- Permit Number:
- Issuer:
- Bond Number:
- Expiration Date:
- Signed by:
- President and Chairman



# VI. CORPORATE CHART

The following chart describes each company and main roll into the Raven Project, some of the companies were formed as special purpose vehicles and should start operations as soon as the project starts:

BETHEL ENERGY LLC	OWNER / BORROWER
LP DANIEL ENGINEERS	MANAGING AND OPERATING PARTNER
REFORMED EARTH TECHNOLOGY	TECHNICAL PARTNER
YUMA & IMPERIAL COUNTY	SUPPLIER OF RAW MATERIAL / MSW
HYUNDAI GLOVIS	OFFTAKER

# VII. FINANCIAL INFORMATION

## GENERAL ASSUMPTIONS

RET Devolatization	6	Units
Capacity: Total Gross	500	Tones Per Day
Capacity: Total Processible	450	Tons Per Day
Green Hydrogen	56,000	KG Per Day
50MW Solar Field/50MW Power Block	40	MW Per Hour
MSW Tipping Fees	\$20	Per Ton
Green Hydrogen Rate	\$3.50	Per kg
Solar Energy	\$120	Per MW

## COST OF SALES ASSUMPTIONS

Catalst	\$0.0160	USD \$/ton
Third Party Royalty	\$0.0475	USD \$/kg

# VIII. USE OF PROCEEDS



# VIII. USE OF PROCEEDS

USE OF FUNDS	
Process Equipment	\$105,032,269
Land	6,000,000
TBD	197,000,000
Plant Construction	\$22,637,371
EPC, 3rd Party Consulting and Start Up	\$6,617,437
Insurance Bond	\$4,254,067
Pre Development Engineering	\$1,400,000
<b>Total Use of Funds</b>	<b>\$342,941,144</b>

MONTHLY DRAW SCHEDULE	
Pre Development Engineering	\$4,400,000
50 MW Solar Field	106,000,000
50 MW Power Block	94,000,000
Month #1	\$10,662,124
Month #2	\$12,172,124
Month #3	\$44,520,712
Month #4	\$3,552,281
Month #5	\$3,152,281
Month #6	\$2,360,281
Month #7	\$4,203,031
Month #8	\$20,255,403
Month #9	\$11,711,217
Month #10	\$3,250,531
Month #11	\$2,577,481
Month #12	\$1,983,481
Month #13	\$1,961,881
Month #14	\$1,832,281
Month #15	\$6,086,348
Month #16	\$8,259,687
<b>Total Use of Funds</b>	<b>\$342,941,144</b>

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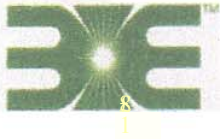
2/25/2023

Bethel Energy LLC  
3011 Via Diegenous Rd.  
P. O. Box 368  
Alpine, CA 91901

Sub: Permission to Advertise

To whom it may concern,

Bethel Energy LLC grants permission to Texas Holdings, Inc.  
to advertise our Yuma Solar/Hydrogen Project to be located in  
Wellton, AZ.



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L P Daniel  
CEO Bethel Energy LLC