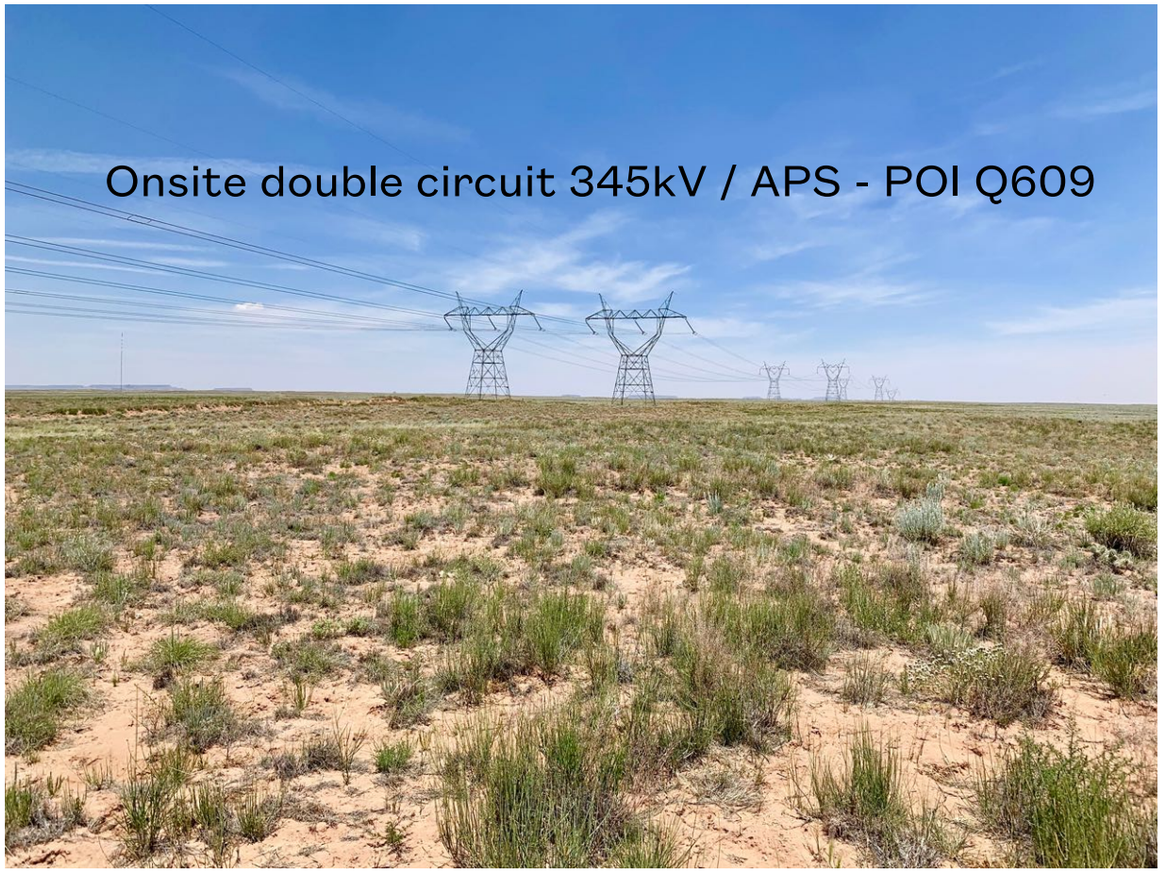
GoSolar - Sun Mesa-Cholla, Arizona 1,500 MW onsite grid capacity for PV + ESS
up to 8,000 MW as micro-grid for Behind-the-Meter (BTM) onsite power supply

GigaWatt Scale Project
Sun Mesa-Cholla

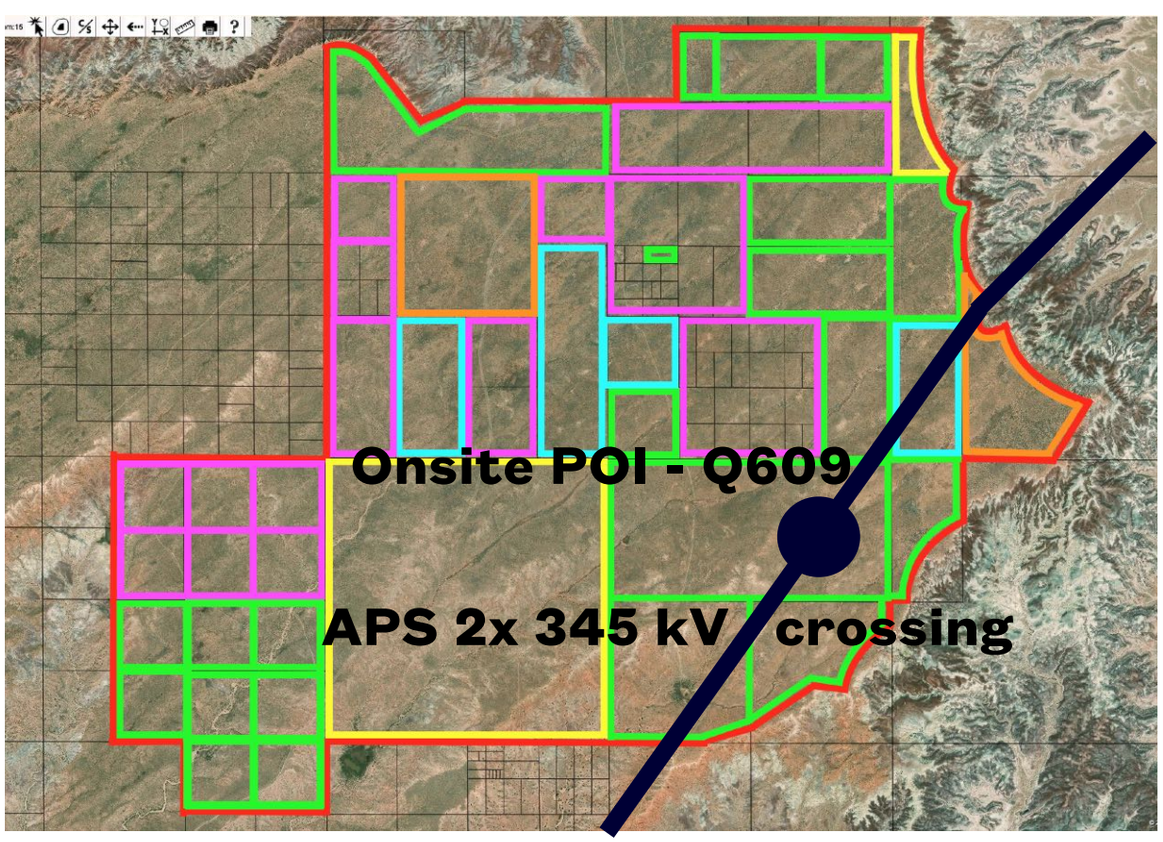
Up to 1,500 MW grid Energy
-Solar Farm up to 8,000 MW
-Onsite ESS up to 18+ GWH
-Onsite Data Center / BTM
-Hydrogen splitting
-ETES - The 2nd life for retired coal power plant



GoSolar Project Sun Mesa-Cholla

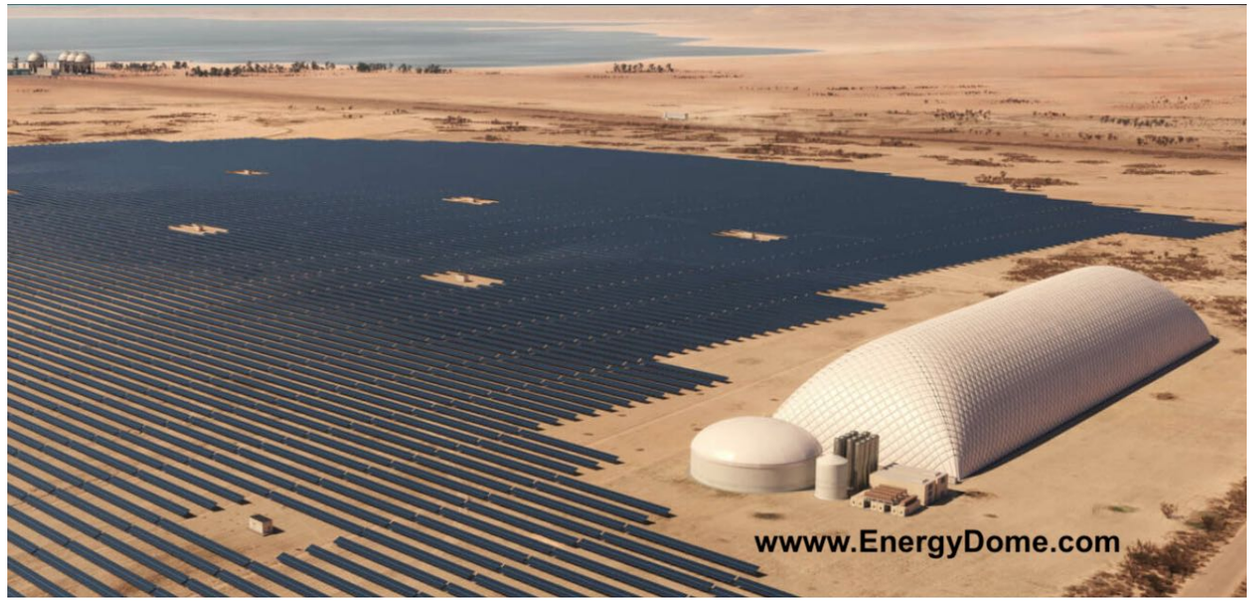
Up to 8,000 MW (PV+ESS) as BTM energy capacity and 20,000+ acres potential

The solar project area has been contracted and includes the Point of Interconnection (POI) with up to 1,500 MW of grid-connected energy capacity for onsite PV/ESS as BTM system to APS under a pending interconnection. The two double-circuit 345 kV power lines at the POI are located directly on the contracted parcels and will be connected with a cut into both lines to a new switchyard (TBB). Additionally, neighboring parcels are available, allowing for an expansion of up to 20,000+ acres for onsite BTM (Behind-the-Meter) direct power supply and storage.

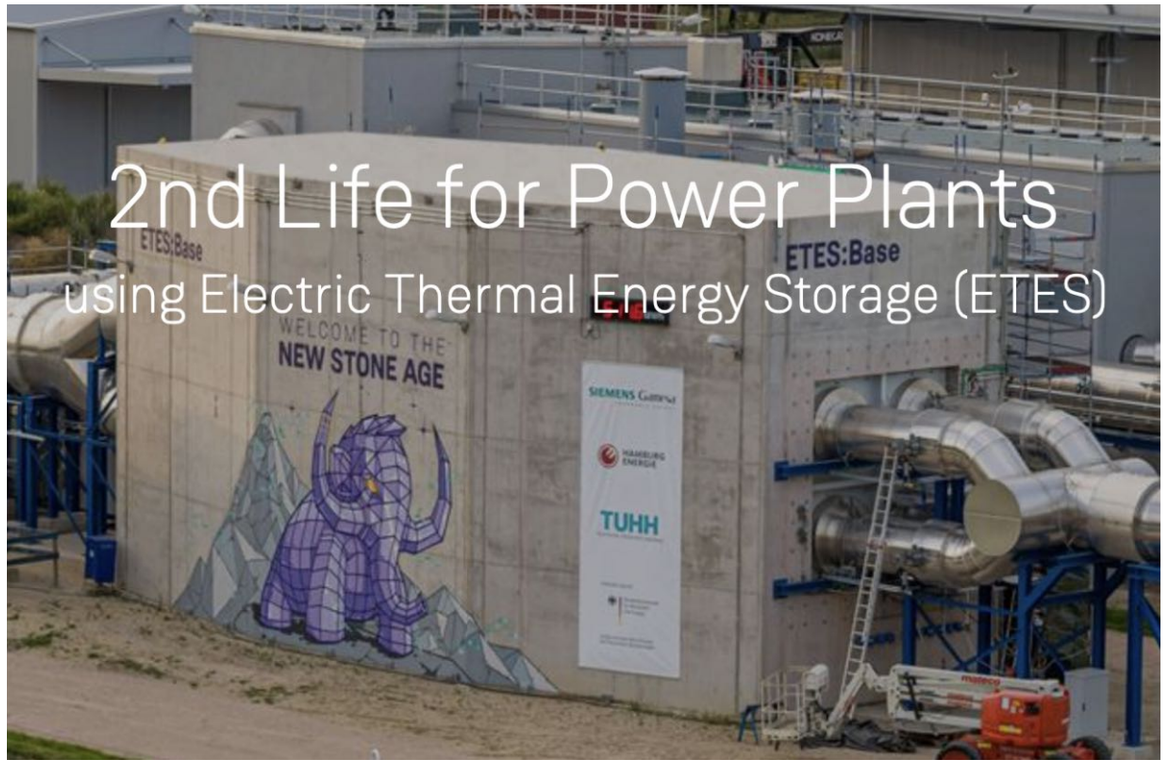


Onsite Energy Storage for GWH´s

ESS (Energy Storage System) is contracted for Onsite Battery or LDES (Long Duration Energy Storage), under site controlled land leases,
for 35+ year term with optional extensions.



A 1,500MW / 18,000 MWh (12+ hours of duration) Onsite Energy Storage Systems (lithium-iron, redox-flow, Nickel-Hydrogen, Metal-hydrogen, compressed gas system) are the core components and have been filed in the hybrid interconnection with APS. The ESS, connects to the public power grid to balance and stabilize the power grid's fluctuations of peak demands for high power drawing consumers and commercial or industrial appliances, as well as a ground flow of power to support the onsite micro-grid optimization for onsite customers like data centers and the utility's system reliability.An exponential bigger size of up to 8,000MW / 100GWh as co-located Hybrid-LDES can be build within the BTM / micro-grid system additionally providing power for several days, or weeks to operations like an onsite Data Center Campus.



Solar Project Sun Mesa-Cholla

ETES - **E**lectro **T**hermal **E**nergy **S**torage developed by Siemens-Gamesa

Imagine repurposing an old coal power plant into a Gigawatt-hour ESS (Energy Storage System), powered by solar or wind energy. This innovative technology offers a sustainable second life for retiring coal plants. By integrating ETES (Electrical Thermal Energy Storage) components with the existing steam turbines, the plant can store electrical energy as heat in lava rocks and convert it back into electricity when needed, providing a reliable and clean energy solution.

It may sound like something from the future, but it’s already a reality. Siemens-Gamesa’s operating system in Hamburg, Germany, proves that this concept is both feasible and functional. It demonstrates how utilities can reliably supply power while also reducing the costs of decommissioning old coal plants. By repurposing existing components, these plants can be transformed into energy storage facilities, creating new opportunities and preserving many jobs at the “green plant.”

Hydrogen Splitting

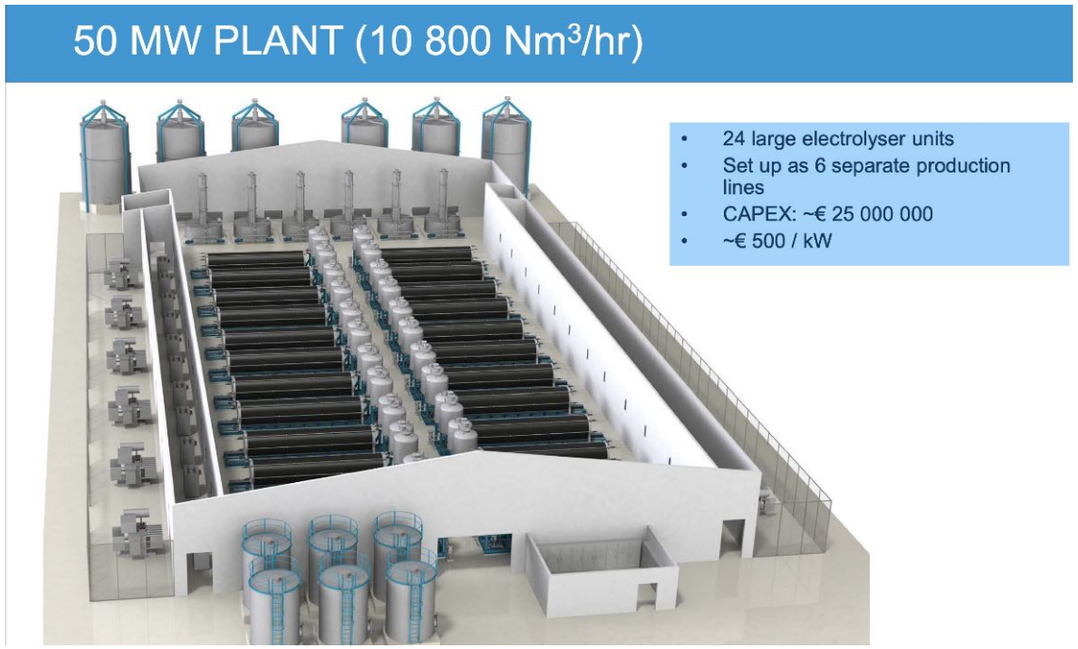
Green Hydrogen Demand is Growing

Splitting water (H2O) into its core elements—hydrogen (H2) and oxygen (O2)—using an electrolyzer is a well-established process. One of the oldest hydrogen splitting plants, dating back to the 1930s, still operates in Norway, powered by a dam. Many other hydrogen splitting plants worldwide are run on standard grid energy.

What's new, however, is the rapidly growing demand for "green hydrogen" in the global transportation sector, especially from renewable energy sources such as solar and wind. Hydrogen buses, trucks, airplanes, cargo ships, and even cruise lines are entering the market, driven by cost efficiency and increasingly strict pollution regulations.

This is rapidly becoming a multi-billion-dollar market, with growth expected to accelerate over the next decade. Hydrogen also plays a key role in energy storage, as it can be converted back into electricity using a fuel cell whenever needed.

In Q3 2021, new policies in Europe were introduced to boost green hydrogen demand from 6% to 28%, meaning Europe alone will see more than a fourfold increase in its need for green hydrogen. Other countries and companies are also seeking cost-effective fuel solutions and implementing stricter pollution regulations, further driving demand.



50 MW hydrogen electrolyser plant from NEL as a concept example for the biggest splitting plant in the USA. source: NEL

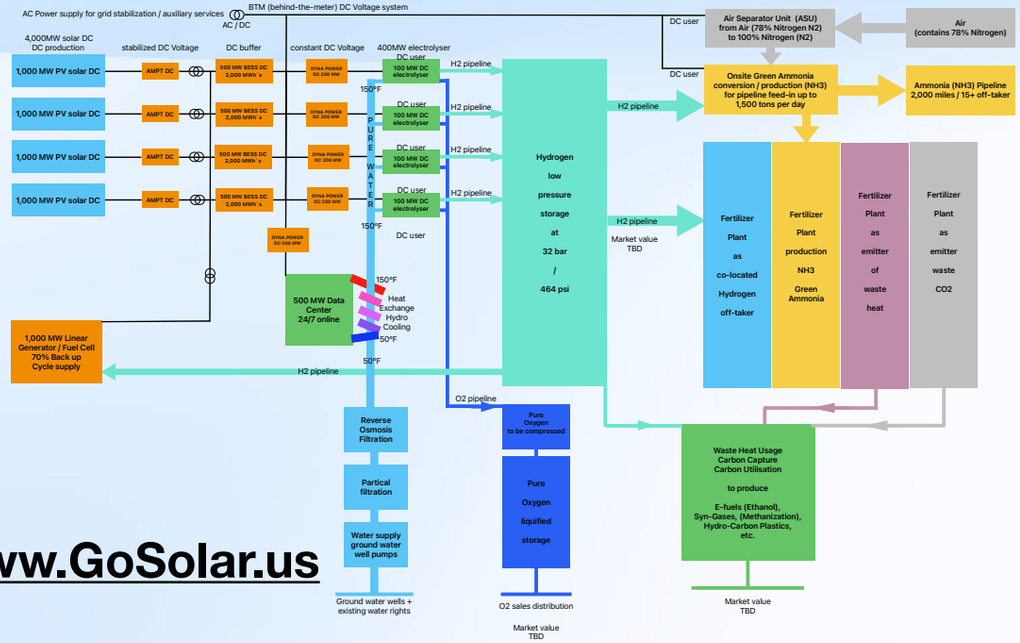
Currently, only a few smaller hydrogen splitting plants, with a maximum capacity of up to 20 MW, exist globally. However, Sun Mesa's location offers unique potential with its 1,500 MW+ capacity. It also provides transportation access via a major highway (I-40) and a train loading station, making it ideal for shipping liquefied hydrogen or converted ammonia worldwide.

Furthermore, Sun Mesa is located near a major aquifer previously used for the cooling system of a soon-to-retire coal power plant (2024). This valuable water resource could be far more efficiently utilized in hydrogen splitting technology, preventing it from being wasted.

Solar + Energy Storage (BESS) to H2 & NH3

- **Solar power supply from up to 4,000 MW with LDES (BESS) to H2 + NH3 co-located / onsite in close proximity**
- **Transparency with BTM power supply from 100% green energy produced onsite with DC-DC-DC**
- **Through co-located Hydrogen and Ammonia production (100% green certified by mass balance)**
- **ThyssenKrupp Uhde & NUCERA are identified as supplier for an all-in one integrated production line for H2 and NH3**

High efficiency DC-DC production to storage to DC usage system / high system capacity factor with constant load for 24/7 Data Center operation, Hydrogen and Ammonia production as BTM (behind-the-meter) system



www.GoSolar.us

www.ThyssenKrupp.com

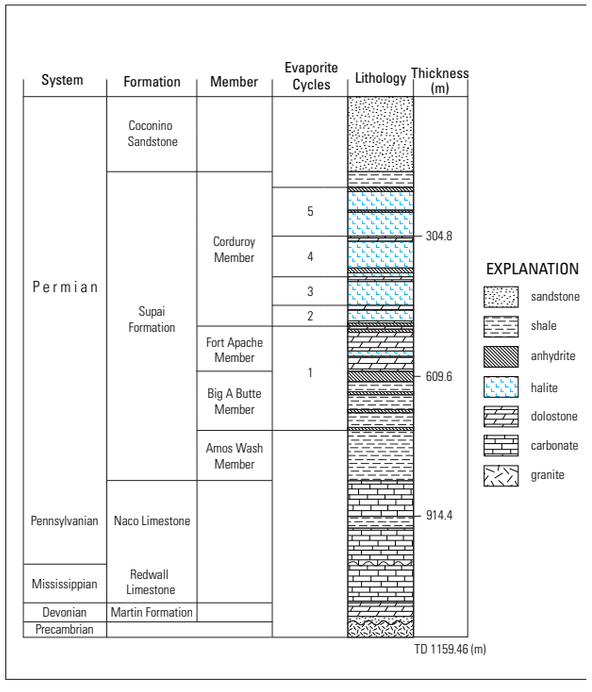


Figure HOL_StratSect. Stratigraphic column for the potash-bearing evaporites of the Holbrook Basin, Arizona (after Rauzi, 2001).

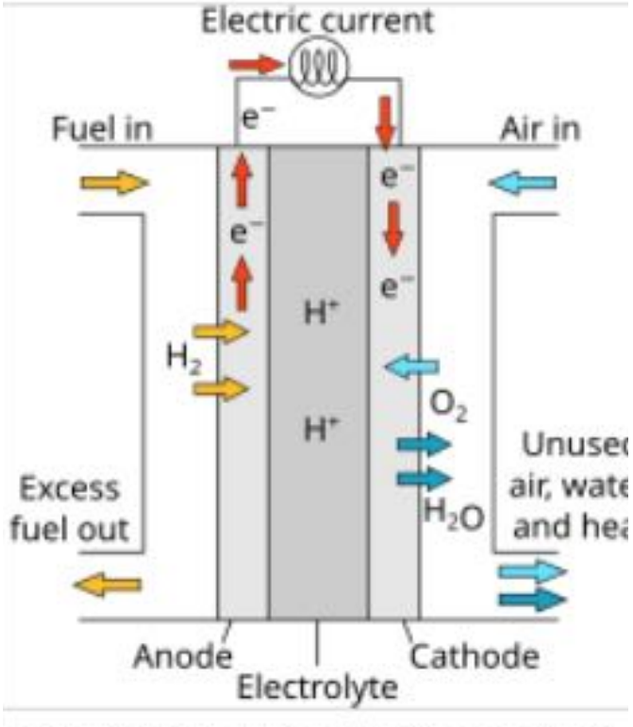
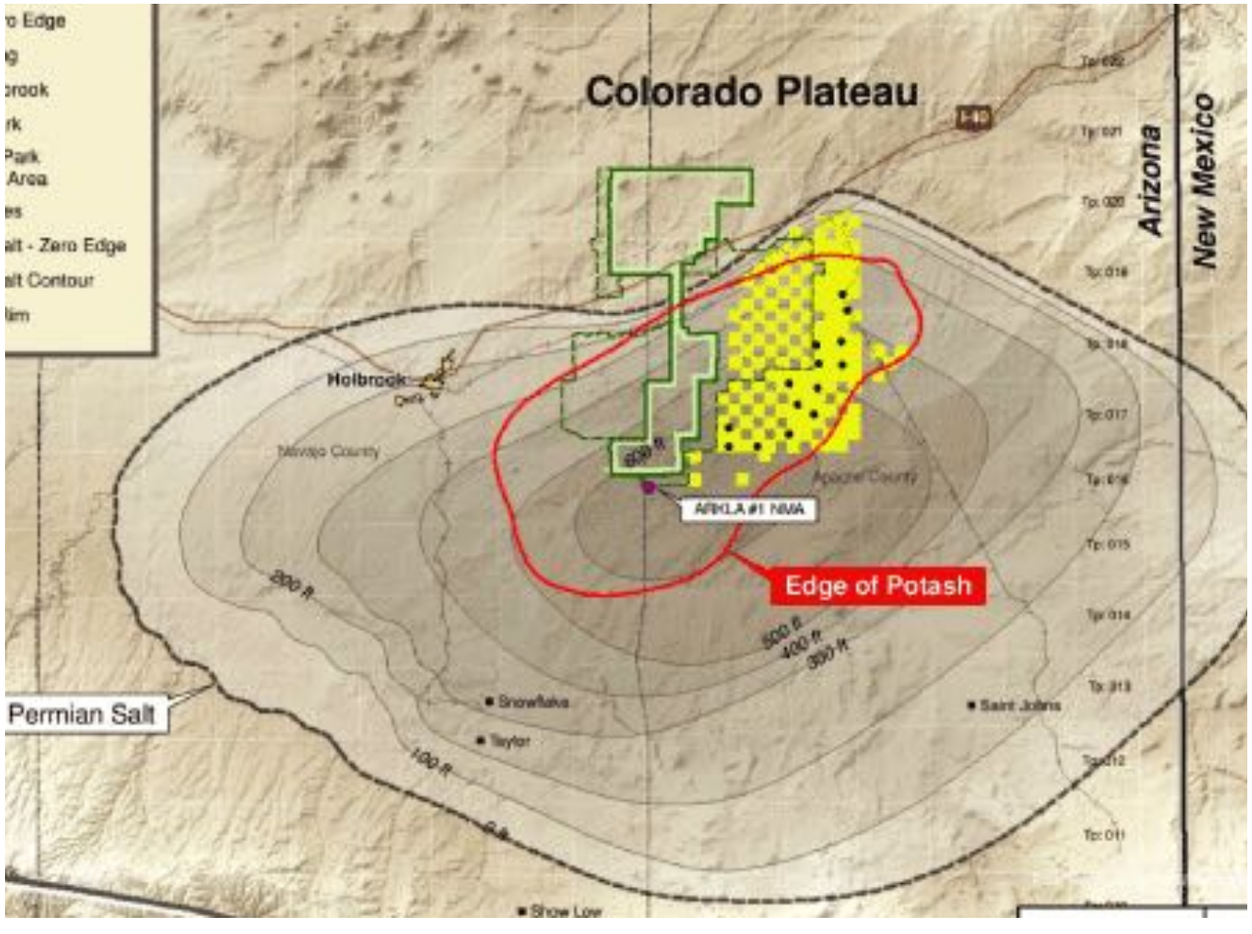


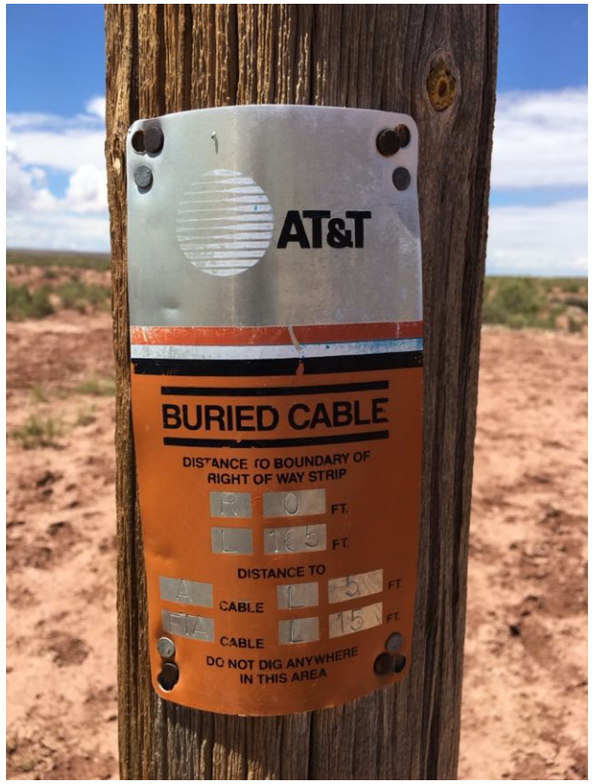
Diagram of a phosphoric acid fuel cell

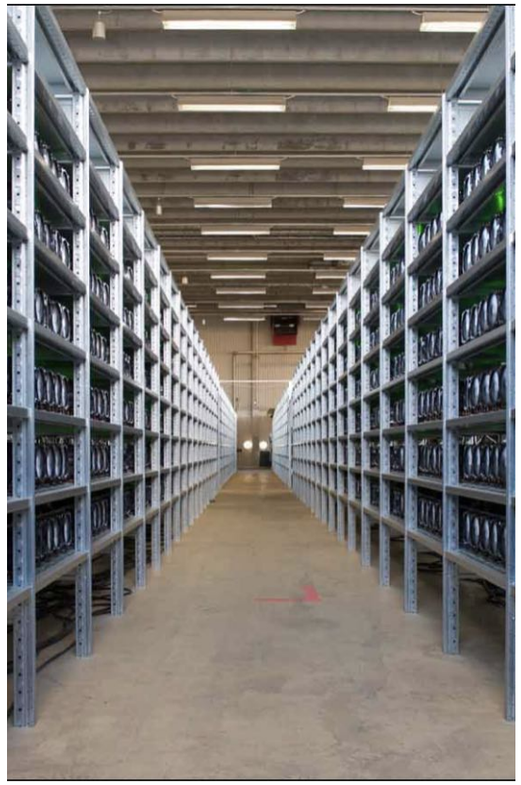
Fertilizer & Mining + Energy storage

Holbrook, AZ is the highest potential area of lower cost fertilizer production from water air and solar power and potash in the Southwest.



With massive onsite solar power at gigawatt scale from GoSolar´s projects and the ideal location near the largest potash mining resource, Holbrook, AZ can become one of the largest fertilizer and commodity supply location for the western agriculture and chemical processing industry for Ammonia, Phosphoric and Nitric acids which are widely needed in the farming and semiconductor industry supply chain.





Data Center operation Onsite Available with Solar + ESS as BTM

An underground fiber optic line operated by AT&T runs from Albuquerque to Las Vegas, passing just south of the Solar Project Site. Additionally, a new high-speed fiber optic ring connecting Phoenix to Flagstaff is currently under construction with APS and is expected to be completed by the Q2 of 2025. The site also benefits from proximity to a nearby aquifer, enabling a highly efficient underground cooling solution that will significantly reduce cooling costs. This location is ideal for a data center, powered by a solar field with a capacity of at least 1,500 MW, with potential for expansion as micro-grid for up to 8,000 MW. The data center will be supported by an 1,500 MW on-grid BESS (Battery Energy Storage System), which can also be expanded to 8,000 MW, ensuring the facility can operate independently for several hours overnight or during major power outages.

Data Centers can be on/off-grid operated by solar + BESS and runs cost-efficient by hydro-cooled servers connected to an aquifer geothermal heat exchange system.

OnsiteCircular Business Model

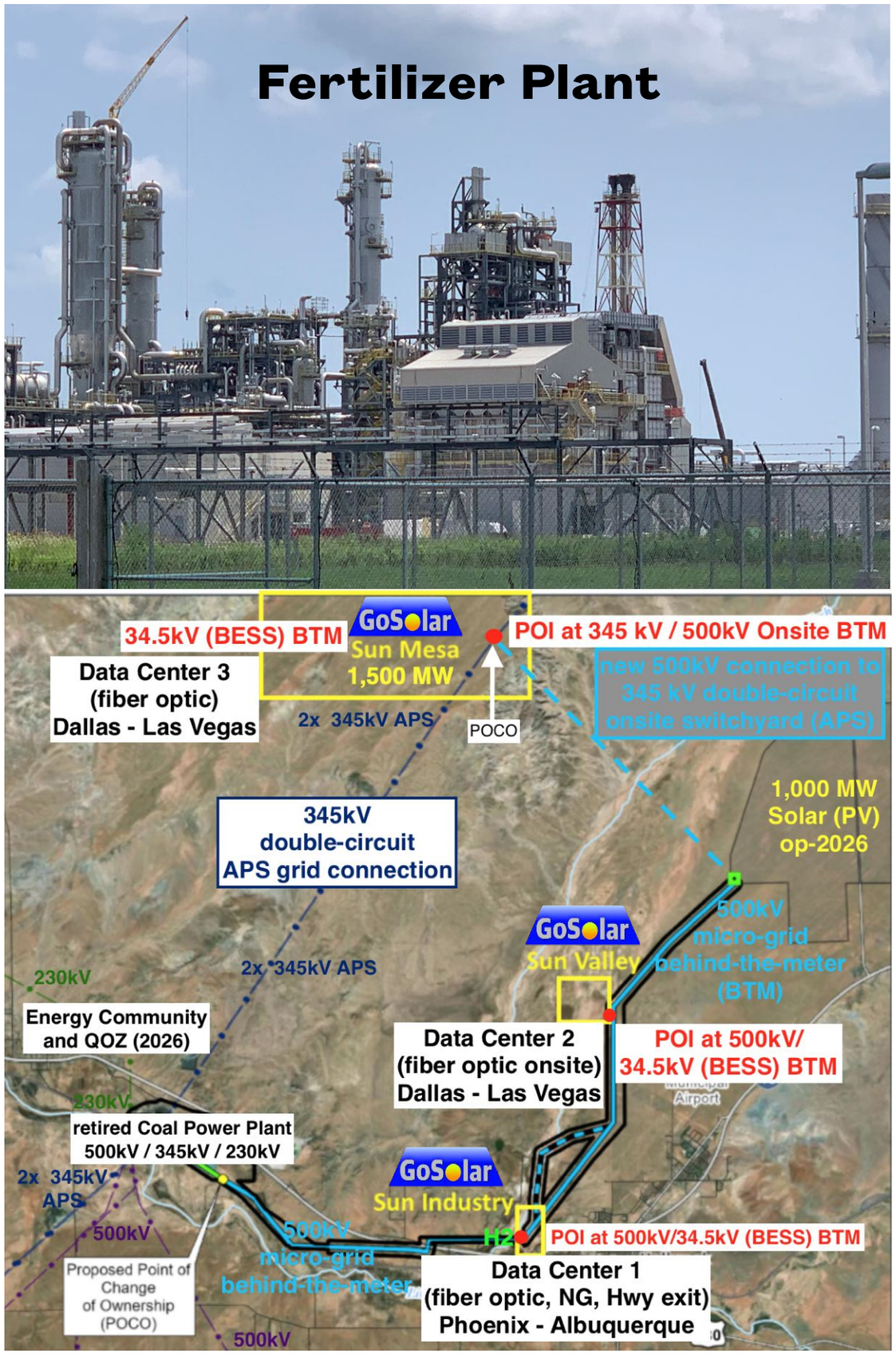
The close distances of onsite power production, HV infrastructure and onsite resources within the Holbrook area combined with the I-40 transportation corridor are ideal for the Circular Economy Business Model

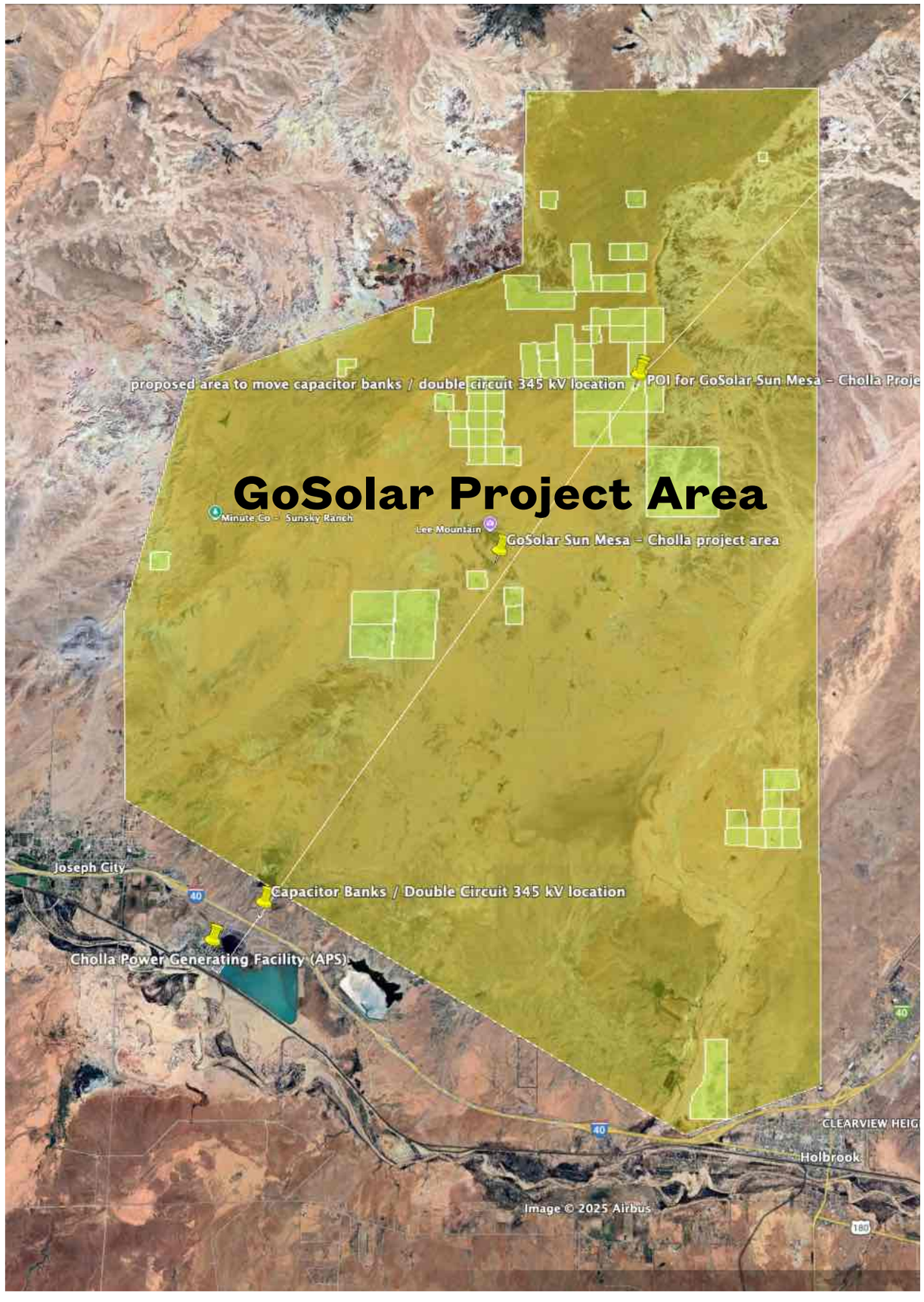
GoSolar's development vision is centered on close collaboration with local utilities, as well as city and county partners, to bring the **Circular Economy Business Model** to life in the Holbrook area. Our goal is to strengthen the local job market by delivering the clean, reliable electricity needed—primarily through solar—to support high-energy-use industries such as **hyperscale data centers**, **hydrogen and hydrocarbon processing facilities**, and **fertilizer production plants**.

The projected long-term job creation includes:

- Approximately **50 to 70 high-paying positions** in data center operations
- Around **100 to 150 high-paying jobs** in hydrogen, gas & liquid commodity processing, and fertilizer production
- Plus, **several hundred temporary construction and O&M jobs** across all projects

This integrated approach not only supports sustainable economic growth but also positions Holbrook as a key hub for future-ready, energy-intensive industries.


Fertilizer Plant
GoSolar
Sun Mesa
1,500 MW
34.5kV (BESS) BTM
POI at 345 kV / 500kV Onsite BTM
Data Center 3
(fiber optic)
Dallas - Las Vegas
2x 345kV APS
POCO
new 500kV connection to
345 kV double-circuit
onsite switchyard (APS)
1,000 MW
Solar (PV)
op-2026
345kV
double-circuit
APS grid connection
GoSolar
Sun Valley
500kV
micro-grid
behind-the-meter
(BTM)
230kV
2x 345kV APS
Energy Community
and QOZ (2026)
Data Center 2
(fiber optic onsite)
Dallas - Las Vegas
POI at 500kV/
34.5kV (BESS) BTM
230kV
retired Coal Power Plant
500kV / 345kV / 230kV
GoSolar
Sun Industry
2x 345kV
APS
500kV
H2
POI at 500kV/34.5kV (BESS) BTM
500kV
micro-grid
behind-the-meter
Proposed Point of
Change
of Ownership
(POCO)
Data Center 1
(fiber optic, NG, Hwy exit)
Phoenix - Albuquerque
500kV


proposed area to move capacitor banks / double circuit 345 kV location
POI for GoSolar Sun Mesa – Cholla Proje
GoSolar Project Area
Minute Go - Sunsky Ranch
Lee Mountain
GoSolar Sun Mesa – Cholla project area
Joseph City
Capacitor Banks / Double Circuit 345 kV location
Cholla Power Generating Facility (APS)
CLEARVIEW HEIG
Holbrook
Image © 2025 Airbus

Open Market Trading Connections to Public Electric Grid and Onsite Pipeline Connections

OCBM Holbrook, AZ

Onsite Circular Business Model Behind-the-meter (BTM) / stand-alone micro-grid

GoSolar Power BTM production (+Third party Op.) 1,500 MW - 4,000MW

GoSolar

Sun Mesa & Sun Industry, Arizona

Optional BTM Wind Power 500MW

Direct power line connection (BTM)

AC-Power flow

DC-Power flow (Direct Power line connection BTM)

APS Grid Connection approved (Q275) Third party operator

nection 1,000 MW AC

Bi-directional power flow to and from the grid

500kV Sub

Bi-directional electric-meter

Battery Energy Storage System 1,500 MW / 18,000 - 36,000MWH buffering Capacity

DC-Power flow (Direct Power line connection BTM)

Onsite Hydrogen Production and storage (H2)

24/7/365 Power supply with up to 98% uptime Assurance

Data Center

AC-Power flow (BTM)

FCAS/DR Ancillary Services to the grid for grid stabilizing / surplus energy absorption at peak times form Wind & Solar demand response services

Interconnection application APS 2025 - Q609

nnection to 345 kV in 2028

Capacity 500MW to 1,500MW

345kV Sub double circuit

Bi-directional electric-meter

AC-Power flow (BTM)

AC-Power flow (BTM)

FuelCell H2 to Power 50MW-100MW

Hydrogen connection (H2)

H2

atural Gas pipeline connection (CH4)

Feed-in RNG (Renewable Natural Gas)

Onsite Natural Gas pipeline connection (CH4)

CH4

Multi-Fuel Linear Generator 200 MW / (CH4, H2, NH3)

Onsite produced Hydrogen connection (H2)

CO2 (Carbon Dioxid for CCUS)

Onsite Natural Gas Breakout & buffer tank (CH4 & RNG)

Onsite Natural Gas production pipeline (CH4 as RNG)

Methanization H2+CO2 to CH4 (RNG)

NH3

Onsite Ammonia Shipping via BNSF & Hwy I-40 (anhydrous NH3 tanks) to Utah, California & International harbor in Los Angeles

Feed-in to Onsite Ammonia pipeline connection (NH3)

Onsite Ammonia Production (NH3 synthesis) Breakout & buffer tank

Onsite produced Hydrogen connection (H2)

RFNBO- & CBAM- compliant certified Green Ammonia (zero-carbon NH3) for domestic supply & export to California & Asia with blockchain secured protocols

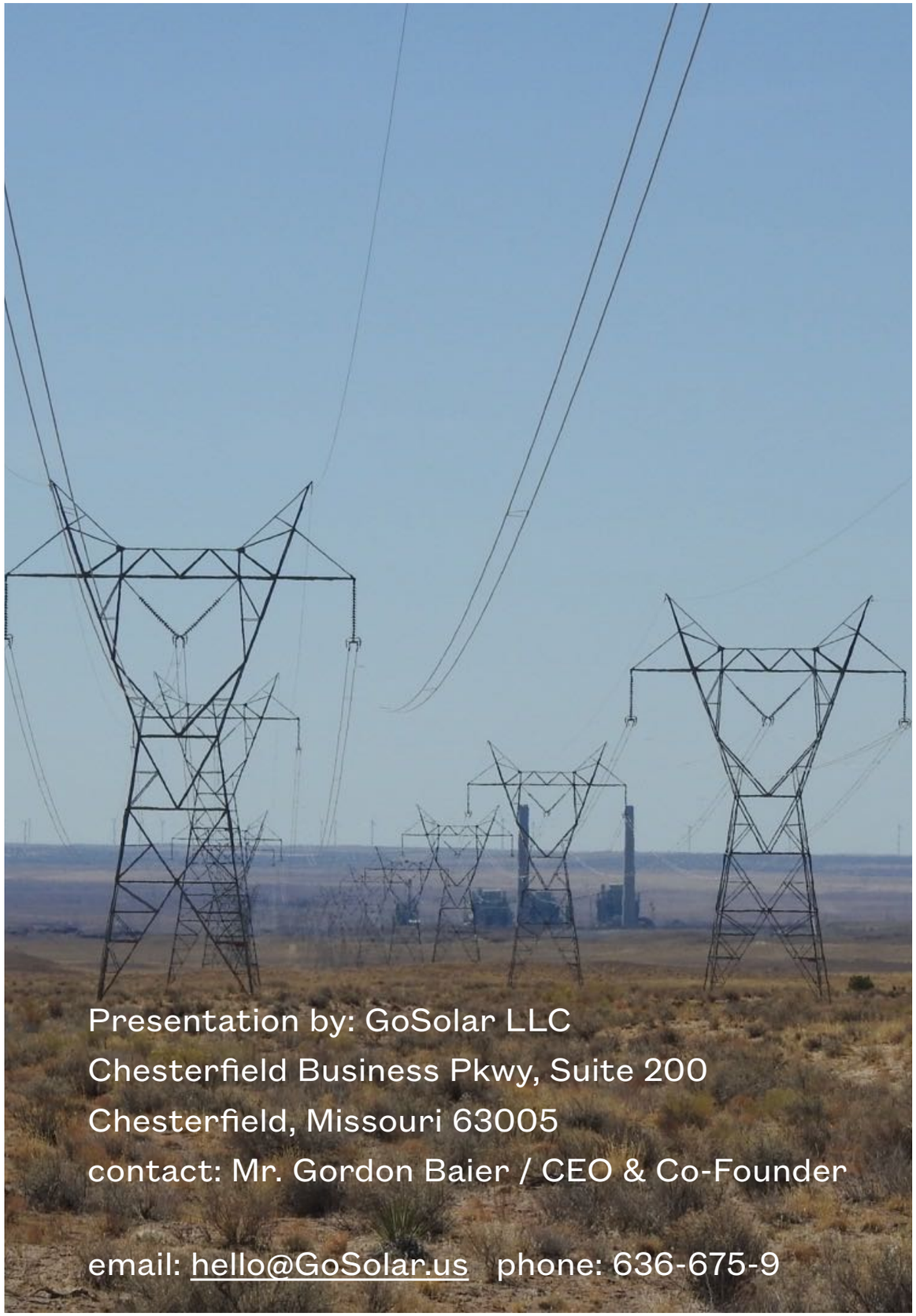
IRA 2022 section 45 V compliant Green Hydrogen (zero-carbon H2) for $3.00/kg (Midwest Hydrogen H2) within Midwest Hydrogen Hub area / DOE support eligibility

Permitting process and timelines

Time is critical to secure essential support under the expiring IRA provisions—Section 48E for solar and Section 45V for hydrogen production.

Permitting requests and timelines in Navajo County for:

- Solar, wind and energy storage (battery and gas)
- Hyperscale Data Centers & Crypto Mining
- Hydrogen, hydrocarbon & ammonia processing
- Carbon Capture, Carbon & Carbon-Dioxide processing
- Helium, Oxygen, Nitric & Phosphoric Acid processing
- Mineral mining & mineral processing facilities
- Water supply & water well drilling
- Pipeline & Power line constructions below 69kV (non-CEC)



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