SAUDI ARABIA PROJECT UPDATE

July 2022



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SHELL & AMG RECYCLING B.V.'S (SARBV) KEY ACCOMPLISHMENTS

November 2019



September 2021

United Company for Industry

- Subsidiary of Aljomaih Holding
 - Established in 1936
 - 6,000 Employees, >\$1.7B in revenue and \$2.7B in assets
- Focused on Chemicals and Manufacturing
- Member of the Shareek program

July 2022

Joint Venture / Shareholders Agreement with UCI



MOU with Ministry of Investment (MISA)

- Formerly the Saudi Arabian General Investment Authority (SAGIA)
- Establish to support and attract investment projects to the Kingdom
- Facilitates project development, site selection, financing, etc.

MOU with United Company for Industry (UCI)

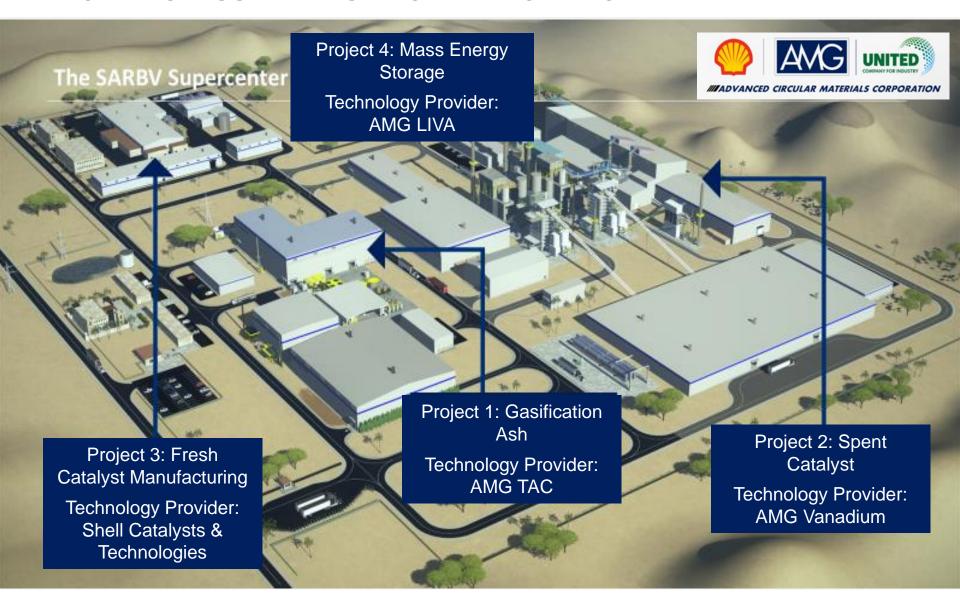
- · Establish a local partner
- Access to domestic financing and incentives in the Kingdom of Saudi Arabia (KSA)
- Local support for in-Kingdom project localization



Sales Agreement with Saudi Aramco

 Long Term Offtake Agreement of vanadium-bearing gasification ash from the Jazan Refining Complex

WORLD-CLASS METALS RECLAMATION FACILITY



PROJECT 1: GASIFICATION ASH

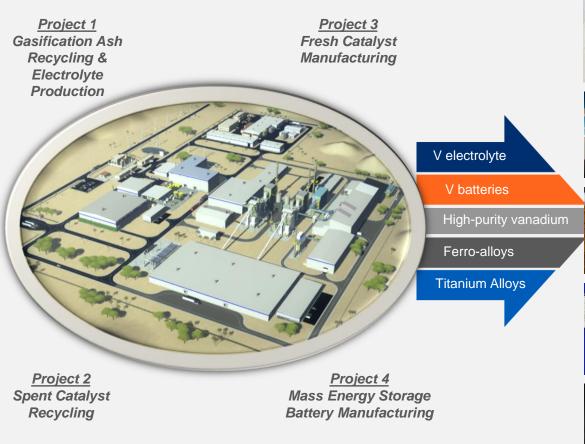
- Lays the foundation for all other projects within the Supercenter
- Produce and sell high-purity vanadium oxide and vanadium electrolyte
- Basic engineering has begun
- Construction to commercial operation expected to take 18 months post final engineering
- AMG to provide technology and offtake
- CAPEX ± \$200M (preliminary estimate)



RECYCLING SUPERCENTER PROVIDES NUMEROUS OPPORTUNITIES

Shell & AMG Recycling Supercenter

Primary and Secondary Opportunities





Vanadium Electrolyte Solutions for Vanadium Redox Flow Battery Manufacturing



Development of Energy Storage Industry in Saudi Arabia



Production of high-purity vanadium products such as vanadium oxides and solutions for a wide variety of applications



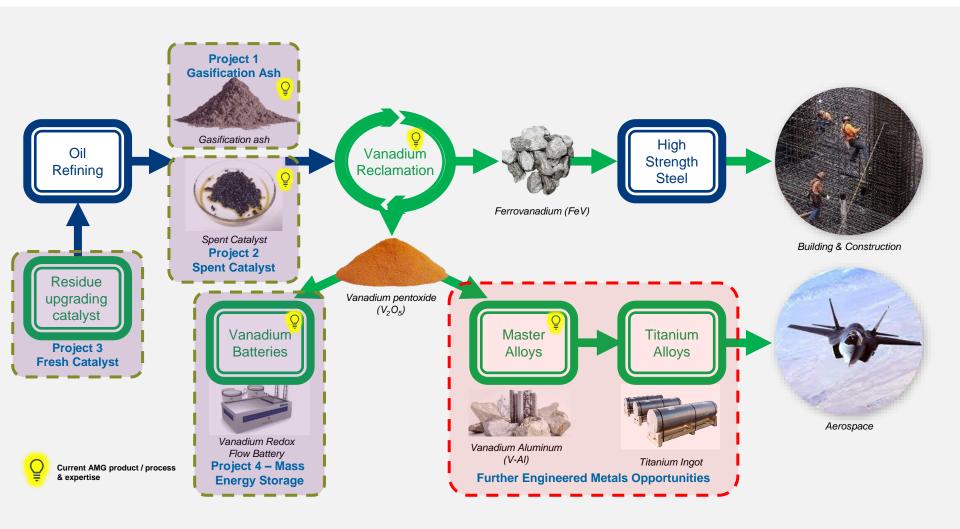
Production of ferrovanadium for use in high-strength lowalloy steels



Production of high-purity vanadium-based titanium alloys for developing Saudi Arabian titanium industry

VANADIUM SUPERCENTER SCOPE





TANGIBLE CO₂ REDUCTION BASED ON INITIAL CALCULATIONS

Project 1

Vanadium Concentrate from Jazan Gasification Combined Cycle Plant

The mitigated CO₂e benefit is **263,000** MT per year

Project 2

Spent Residue Catalyst Metals Reclamation

The mitigated/enabled CO₂e benefit is **3,270,000** MT per year

Project 4

Vanadium Electrolyte Production Plant

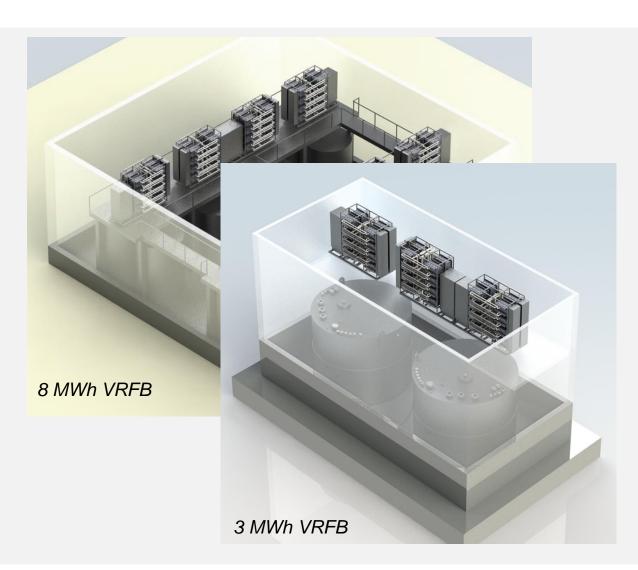
The enabled CO₂e benefit is **44,000** MT per year

~3.6 Million MT per year

APPENDIX

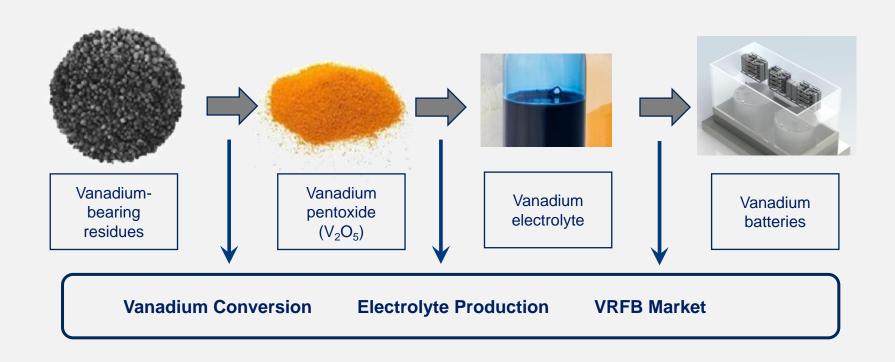


LIVA HYBRID ENERGY STORAGE SYSTEM



- ✓ Scalable
- Demand side power management (peak shaving, energy shifting)
- Reduce electricity costs & CO₂ footprint
- Grid service (frequency containment reserve)
- ✓ Integration of solar & wind
- Emergency power supply

VRFB VALUE CHAIN



AMG technologies are key to the integration of the vanadium battery value chain