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POWER CO.

MINNESOTA R2G PROJECT DISCUSSION MATERIALS

DECEMBER 2021

TEAM

Leadership

Johanne G. Medina Then
CEO, Co-Founder

Johnny Then-Gautier
CTO, Co-Founder

Craig T. Bouchard
Executive Chairman, Co-Founder

Board of Advisors

Richard Giromini
CEO WABASH NATIONAL, GM

Ernest Matsuo Higa
CEO HIGA INDUSTRIES CO., LTD., U.S.-JAPAN COUNCIL, Wendy's

Jack Greenberg
CEO

William Farley
CEO FRUIT OF THE LOOM

Randolph C. Read
SANDRIDGE energy, ENZON PHARMACEUTICALS

MODULE ACTIVE RESPONSE SYSTEM (MARS) OVERVIEW

MARS KINETIC ENERGY AS AN ALTERNATIVE ENERGY SOURCE

EXISTING ENERGY SOURCES

GEOTHERMAL

WATER (kinetic)

BIOMASS

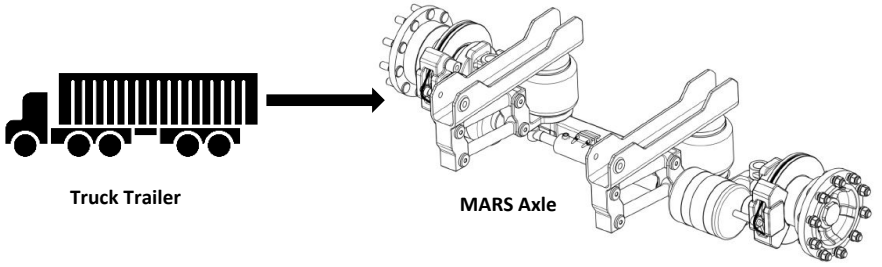
COAL

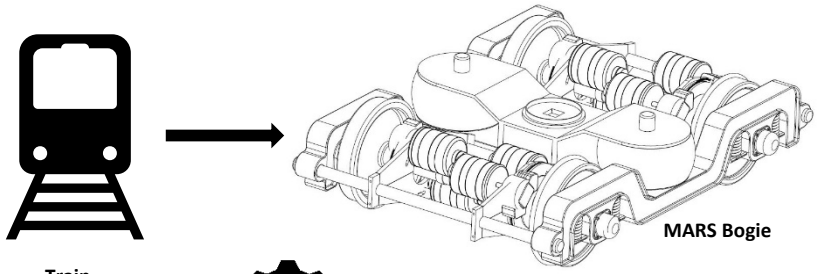
OIL

WIND (kinetic)

SOLAR

HARNESSING KINETIC ENERGY

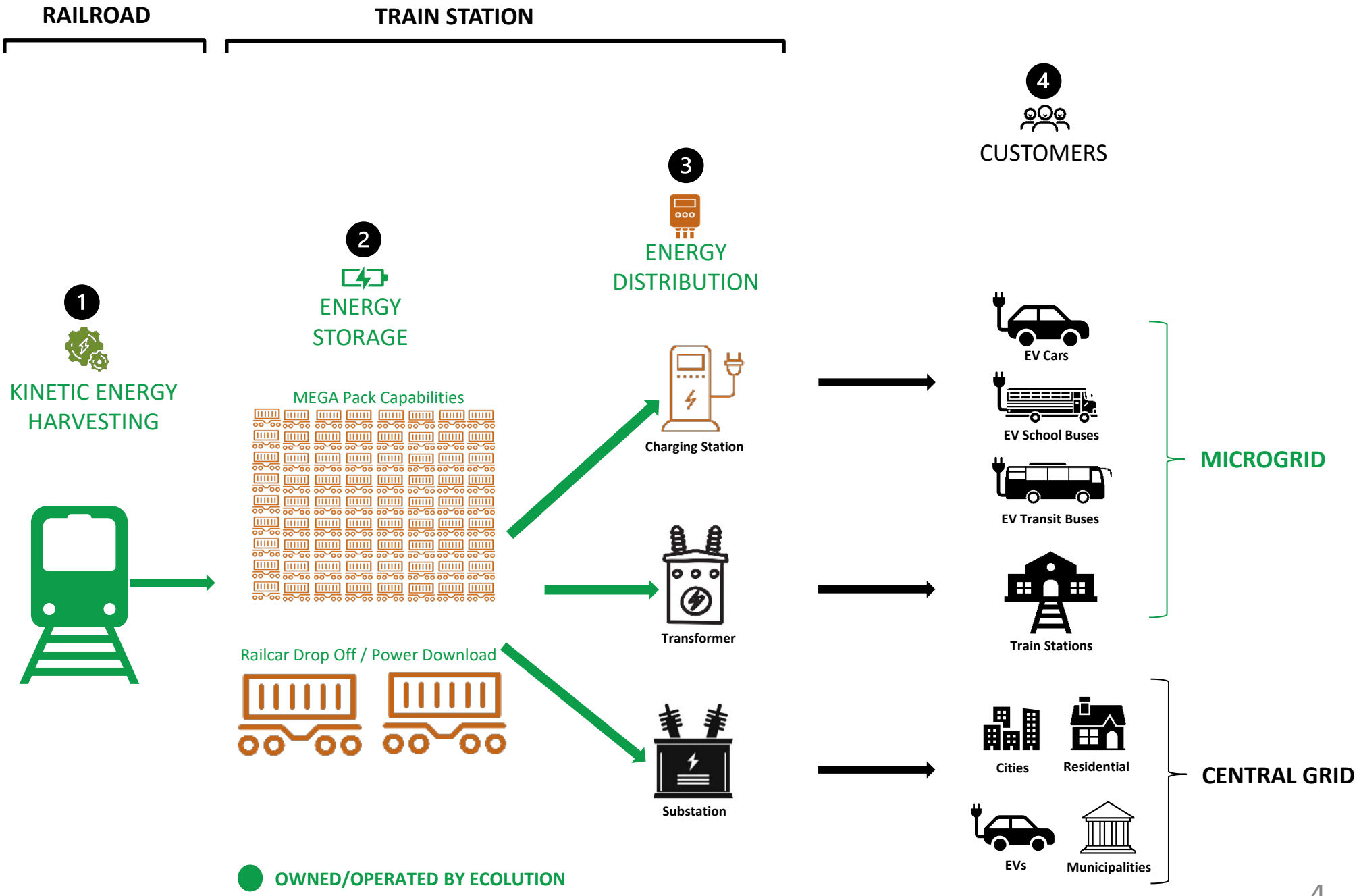




KINETIC

ELECTRIC GRID

RAIL-TO-GRID (R2G) OVERVIEW



RAIL-TO-GRID (R2G)

R2G MARS TECHNOLOGY RAIL CAR APPLICATION

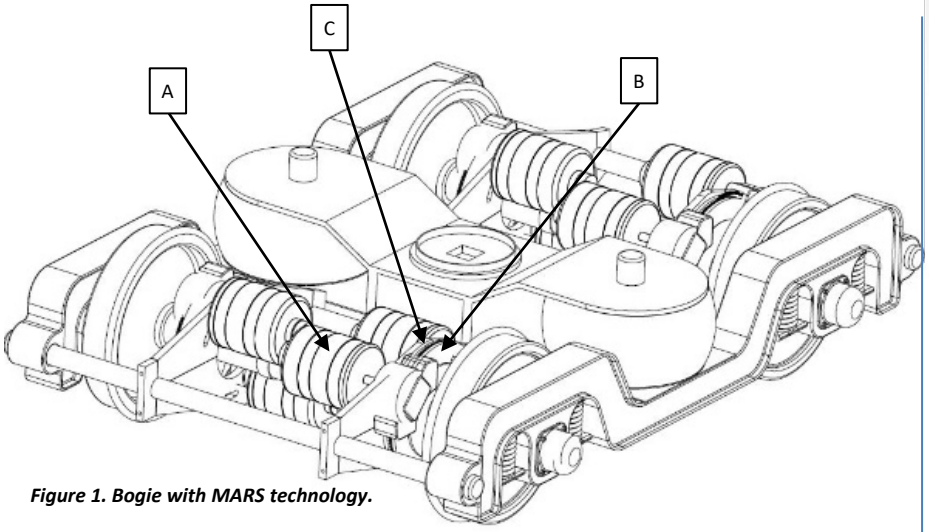
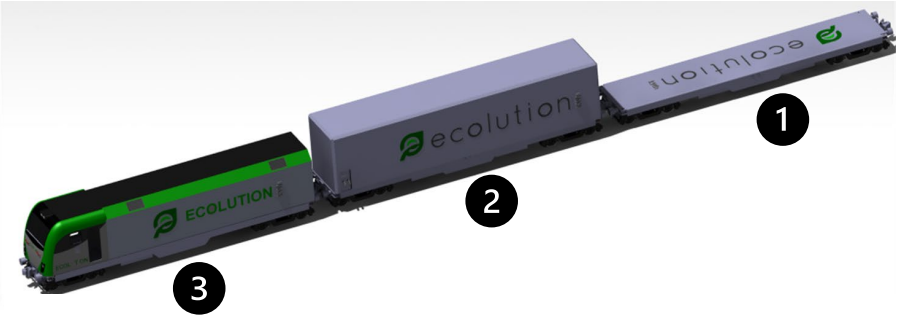


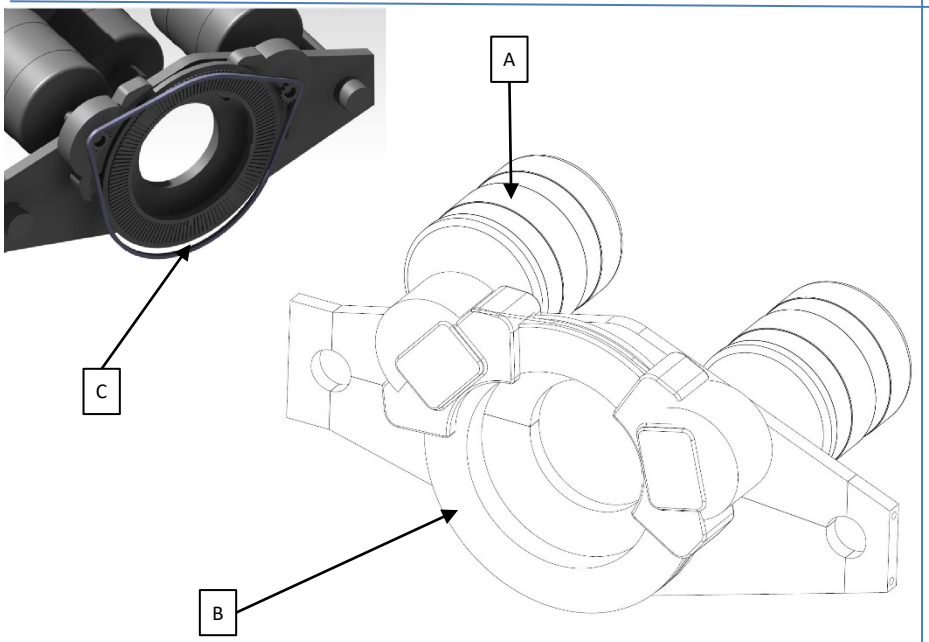
Figure 1. Bogie with MARS technology.

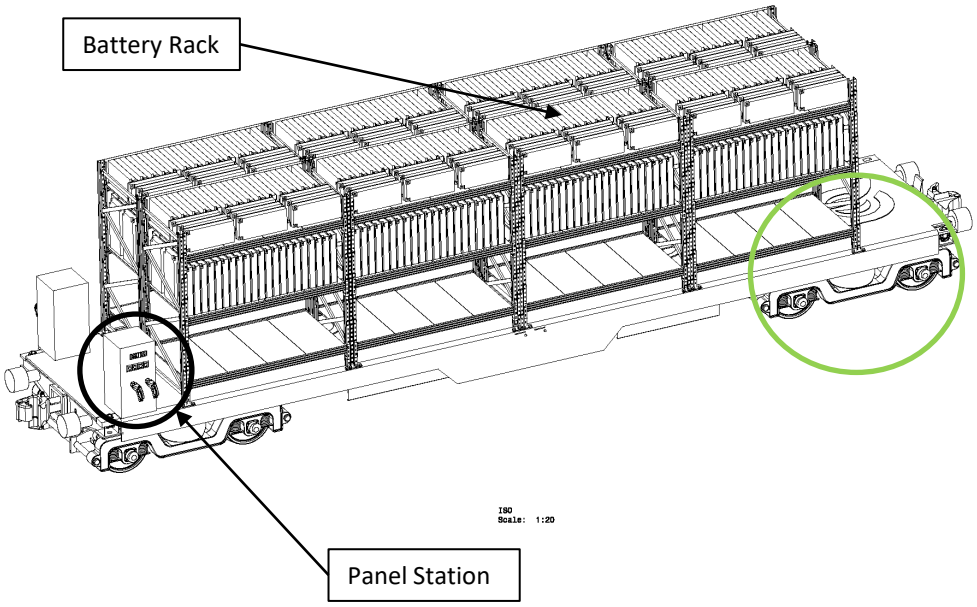
Module Active Response System (MARS) Components

- A — Alternators
- B — Brake Disc
- C — Transmission Chain



1. Standard (STD) wagon platform.
2. Battery rack storage container above STD wagon platform.
3. STD wagon with commercial cabin.

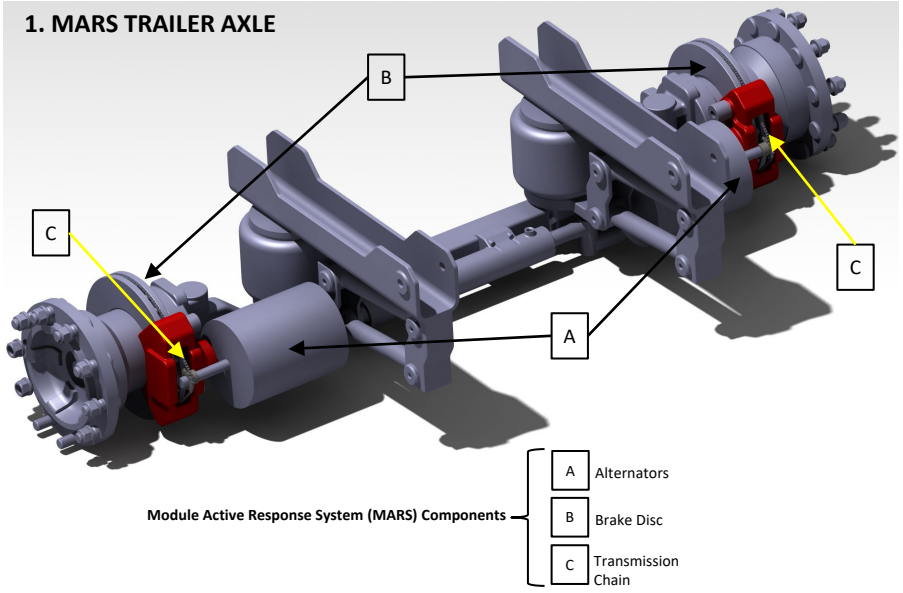




VEHICLE-TO-GRID (V2G)

V2G MARS TECHNOLOGY APPLICATION IN TRAILERS

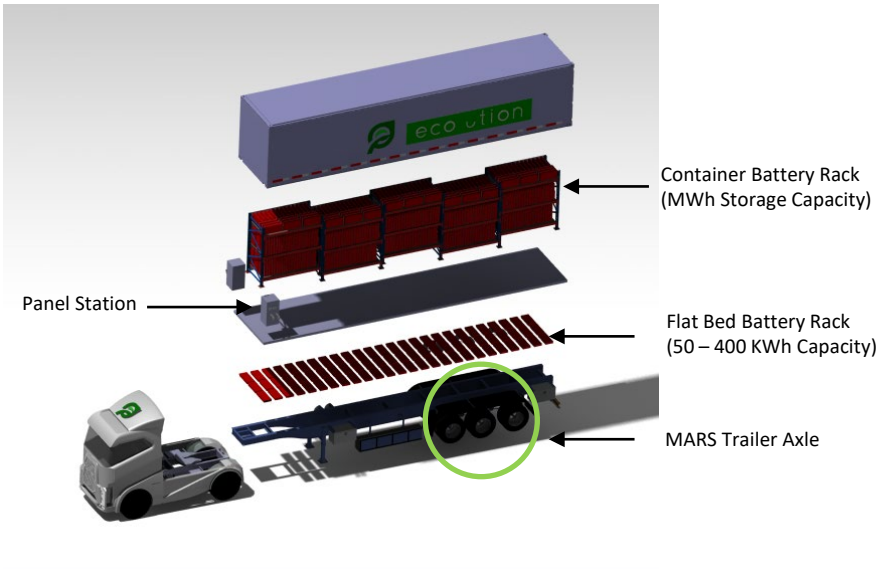
1. MARS TRAILER AXLE



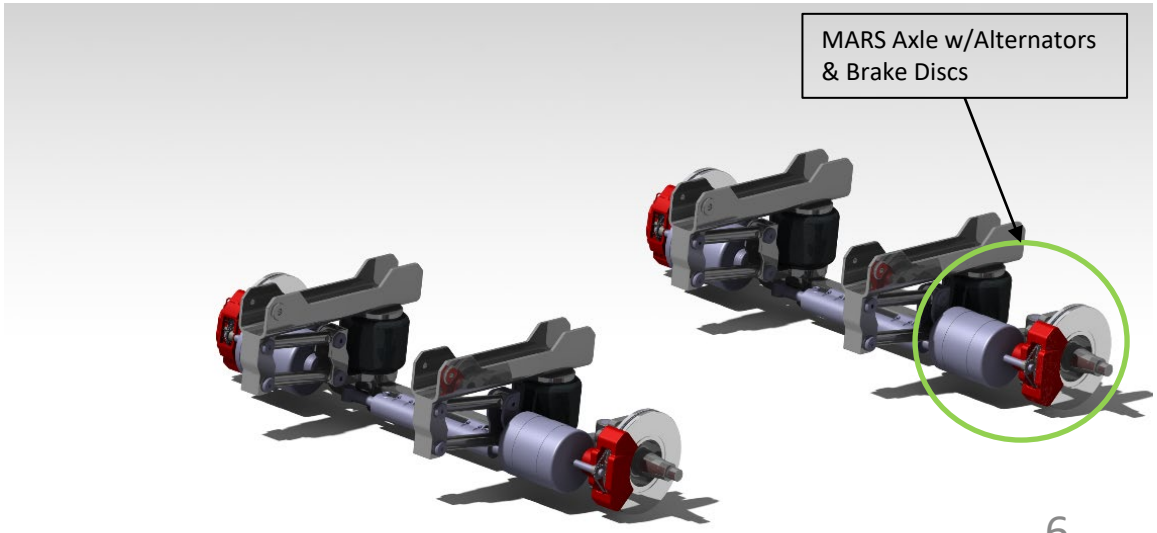
2. MARS DESCRIPTION

- Alternator (A) mounted on axle.
- Alternator (A) coupled to a Brake Disc (B) via Transmission Chain (C).
- As the Brake Disc (B) rotates, the Alternator (A) harnesses kinetic energy and converts to electricity.

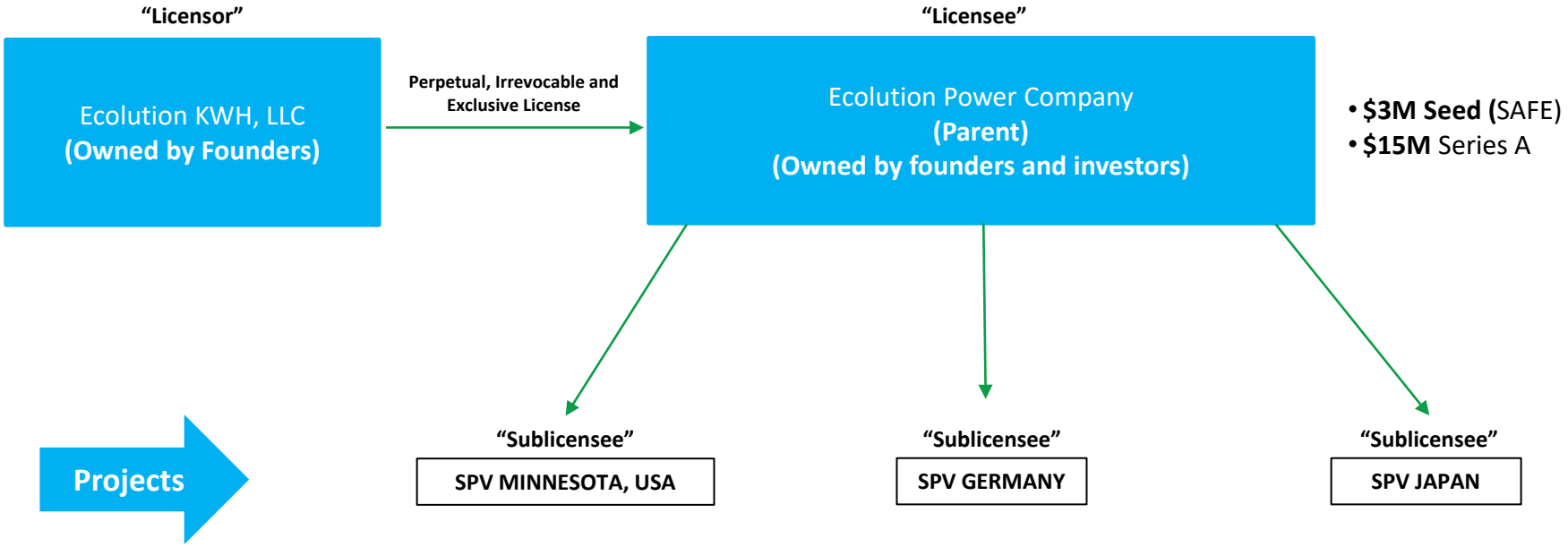
3. MARS TRAILER WITH BATTERY STORAGE RACK



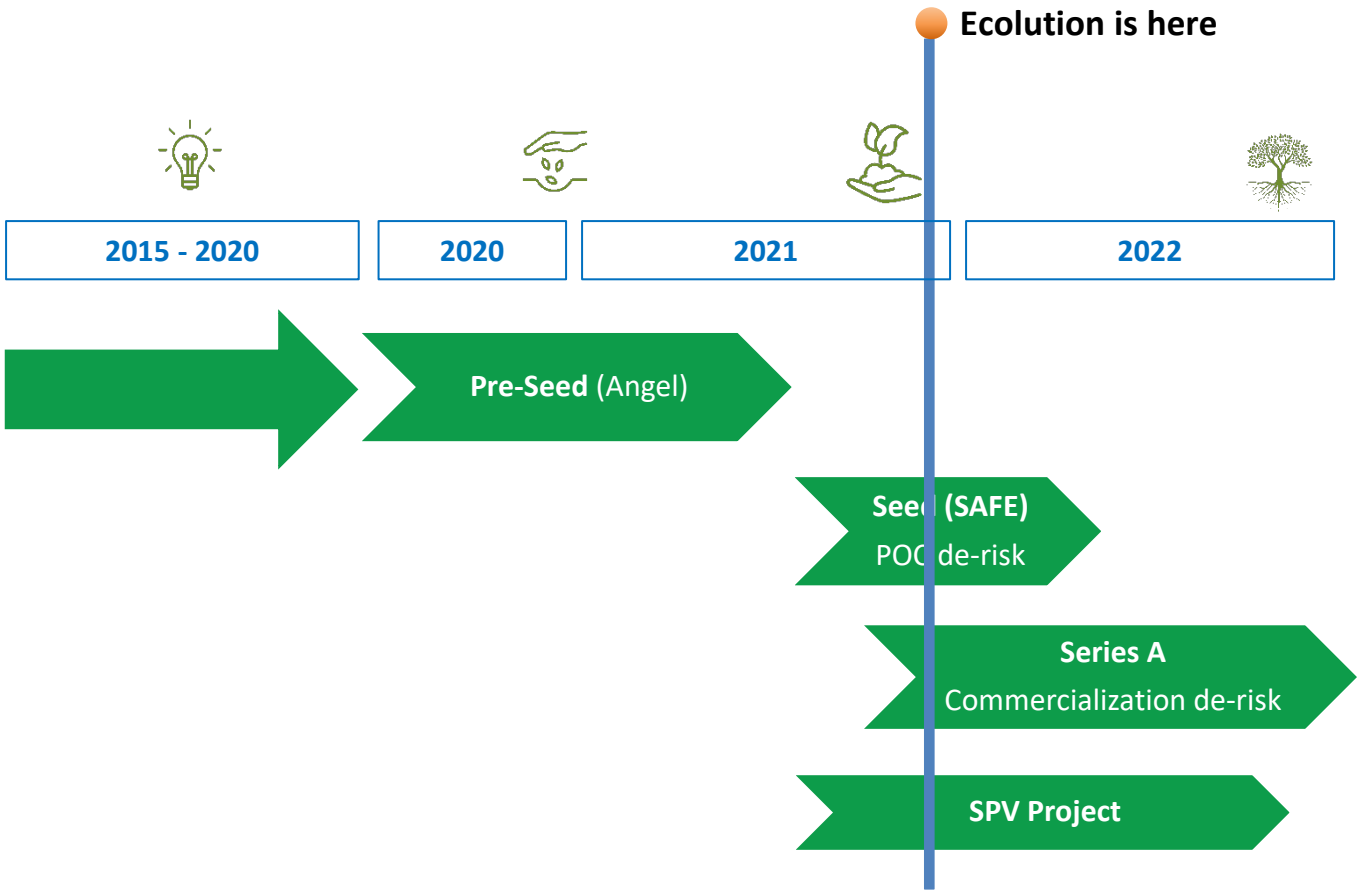
2. MARS TRAILER AXLES



CORPORATE STRUCTURE



FINANCING ROADMAP



Pre-Seed

- **Pre-seed $250K**
- Patent granted
- Global patents secured
- Legal corporate structure
- Business plan development

Seed (SAFE)

As of 12/3/2021

- **$3M (under LOI)**
- Pre-revenue
- Proof of concept (POC)
- Grant applications
- Engineering staff hiring
- Strategic POC partners engage
- **Letter of Intent with the City of St. Paul (Regional HQ Establishment)**

Executed 12/7/2021

Series A

- **$15M**
- Potential licensing revenue Reefer
- Potential leasing revenue EV School Buses
- Market Prototypes
- Customers

SPV Project

- **$90M PHASE I** in Minnesota
- Harvest energy, storage and distribution
- SPV to own Rail Cars, Electric Buses and EV charging stations in MSP, MN
- **Letter of Intent with Levo Mobility LLC for $30M**

Executed 11/15/2021

MINNESOTA R2G HUB PROJECT OVERVIEW

St. Paul Union Depot Station

- **Project objective:** To enable the State of Minnesota to build the nation's first net-zero carbon emissions smart city.
- **Current status:**
  - City of St. Paul, MN and Twin Cities area selected as ideal pilot City.
  - $30M LOI executed with Levo Mobility on 11/15/2021.
  - LOI executed between Ecolution, City of St. Paul and Brown Venture Group on 12/7/2021.
- **Ecolution's Role:** To lead a consortium bringing abundant alternative clean energy to Minnesota.

PARTNERS & SUPPORTERS

Levo POWERED BY NUVVE

NUVVE

BROWN VENTURE GROUP

WABASH NATIONAL

MERITOR RUN WITH THE BULL

warecorp

Day&Zimmermann

KTM ENGINEERING

CLEMSON UNIVERSITY

Penn University of Pennsylvania

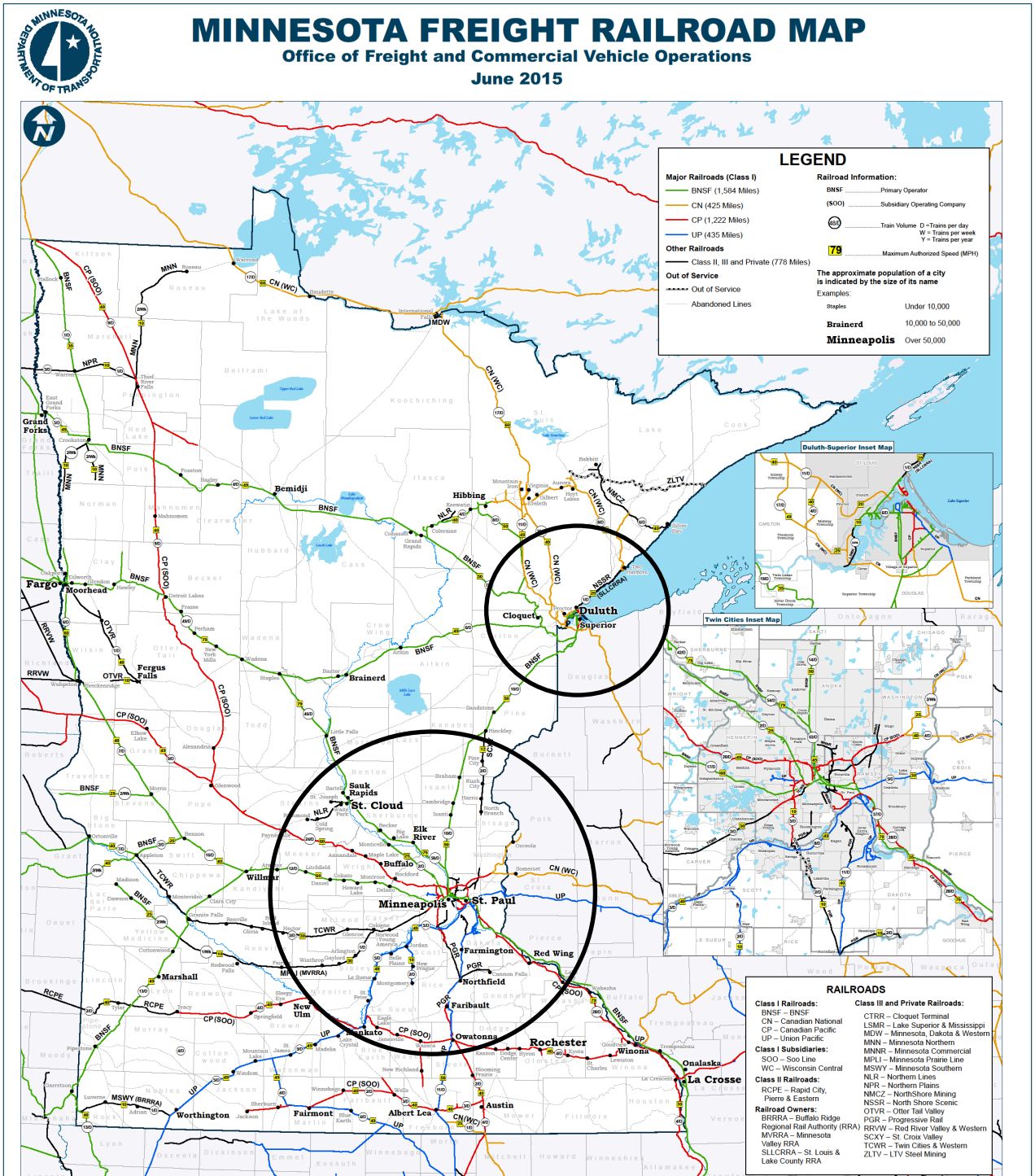
Wharton University of Pennsylvania

PANTEK PARTNERS DEEP TECH | ASIA | INVESTMENT BANKERS

NUVVE V2G Concept

Renewable energy sources need storage. Electric vehicles (EVs) have a built-in energy storage system. Vehicle-to-grid (V2G) technology bridges the gap between these two sectors and also helps regulate energy on the grid.

RAIL-TO-GRID (R2G)



PROJECT TARGETS

- 10 active class I routes
- 15 active class III routes
- High volume convergence in MSP and Duluth
- 100 Electric Buses
- Charging Stations

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POWER CO.

A JUST-IN-TIME ROLLING ELECTRIC GRID

www.ecokwh.com
info@ecokwh.com

Johanne G. Medina Then
Founder & CEO
johanne@ecokwh.com

Craig T. Bouchard
Founder & Executive Chairman
craig@ecokwh.com

Johnny Then-Gautier
Co-Founder & CTO
johnny@ecokwh.com