CRANE

Power Electronics

Henry “Trey” Endt, Vice President & General Manager

INTRODUCTION

CRANE

Legacy Experience | Power Density Leader | High Reliability | Intelligent Packaging

- Power Systems
- AC / DC Power Conversion
- DC / DC Power Conversion
- TRUs / ATRUs
- Transmitters & Amplifiers
- Energy Storage & Management



>10%
market share

6%
sales CAGR
2021 - 2030

APPLICATION CRITICAL POWER CONVERSION AND MANAGEMENT

STRONG CUSTOMER BASE

CRANE

- Valued customers
- Global technology leaders
- Harsh environments
- Mission critical applications

BOEING
LOCKHEED MARTIN
AIRBUS
Raytheon Technologies
NORTHROP GRUMMAN
L3HARRIS™
Viasat
BAE SYSTEMS






MISSION CRITICAL HIGH RELIABILITY SYSTEMS AND COMPONENTS

EXPANDING OUR ADDRESSABLE MARKET

CRANE







EXPANDING OUR MARKET WITH HIGHER POWER

CRANE

Developed Core Building Block Converter Technology



Integration to Line Replaceable Units



Expansion into Full Power System



RADAR SYSTEMS



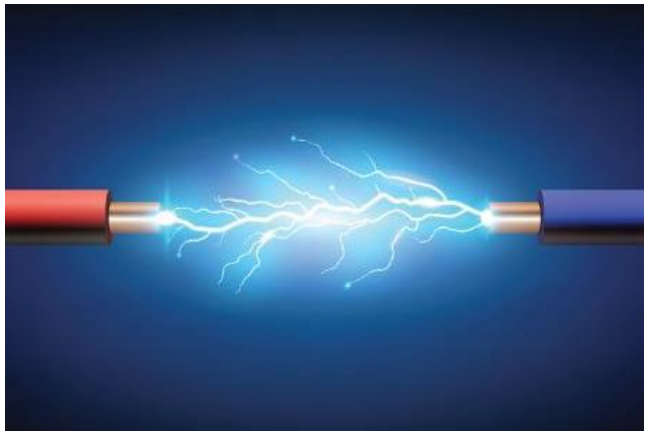


SCALABLE HIGH POWER BUILDING BLOCKS TO SUPPORT GROWTH OPPORTUNITIES

BREAKTHROUGH INNOVATION FOR A MORE ELECTRIC WORLD

CRANE



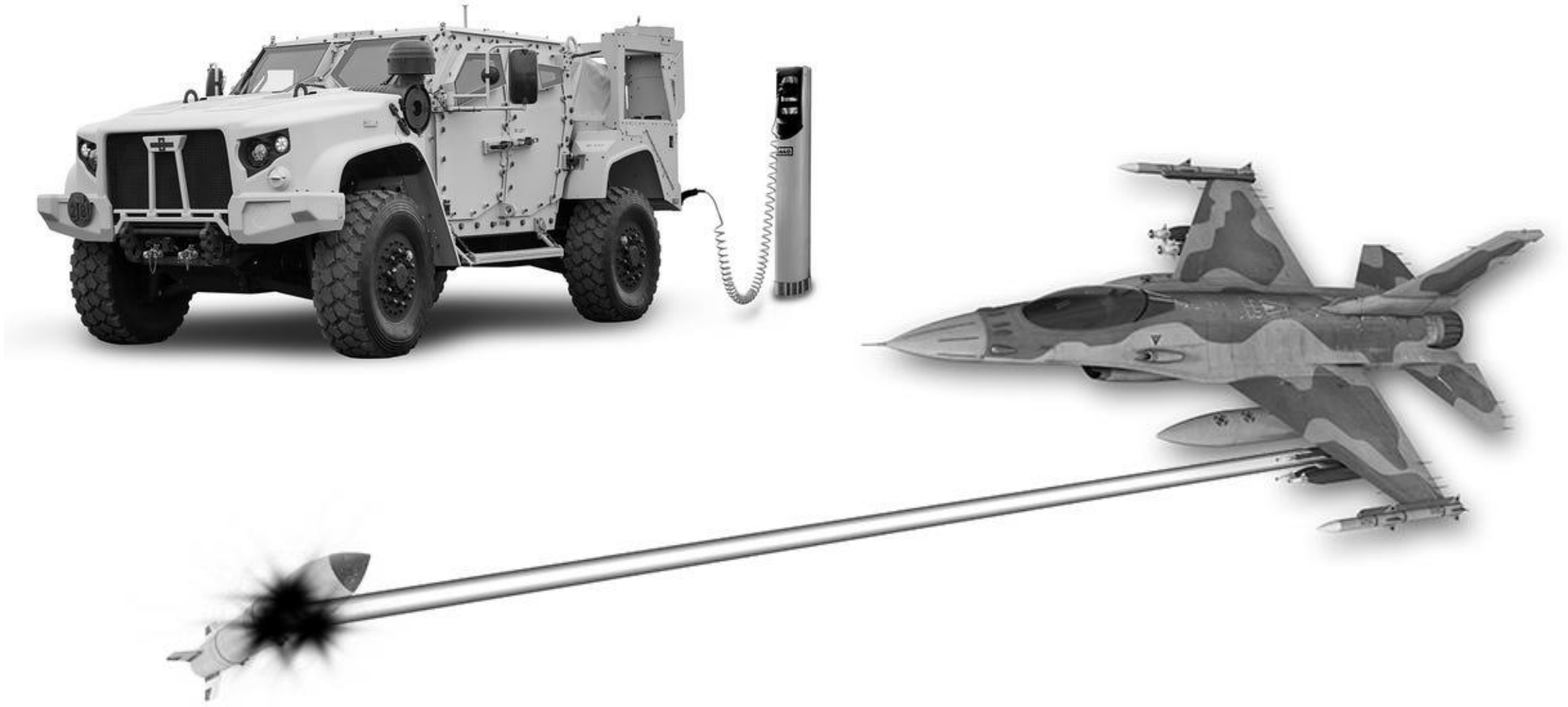


Technology and Product Roadmaps to Address Evolving Power Management Requirements



HIGHER POWER AND BI-DIRECTIONAL CONVERSION

CRANE



POWER ROADMAP FOR MORE ELECTRIC VEHICLES

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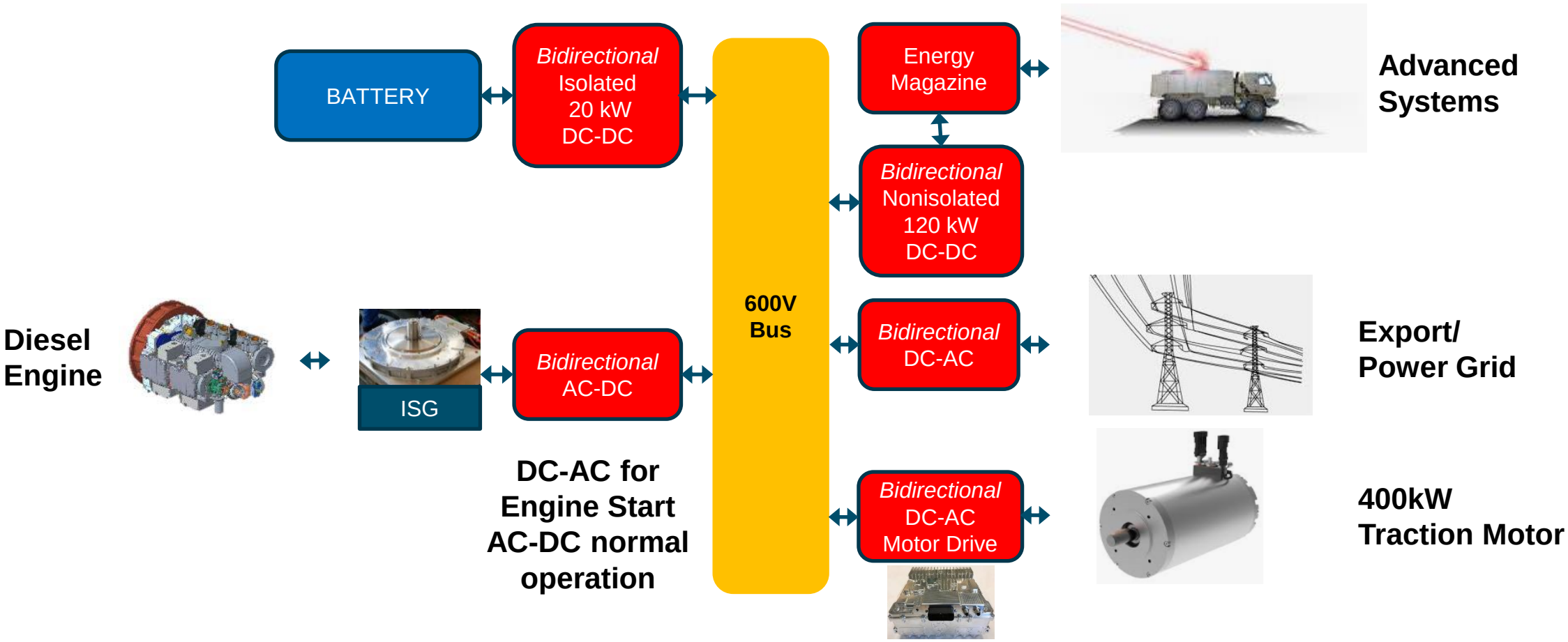
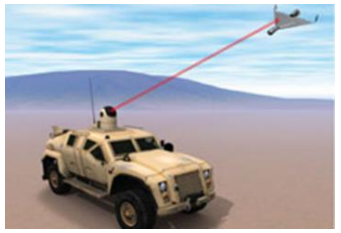


ALL HIGH-POWER ARMY VEHICLE APPLICATIONS REQUIRE BI-DIRECTIONAL CONVERSION

FURTHER EXPANDING OUR ADDRESSABLE MARKET

CRANE

On-Board Power







MEV High Power





High Power Supplies



2030

2020

2015

AESA System Power













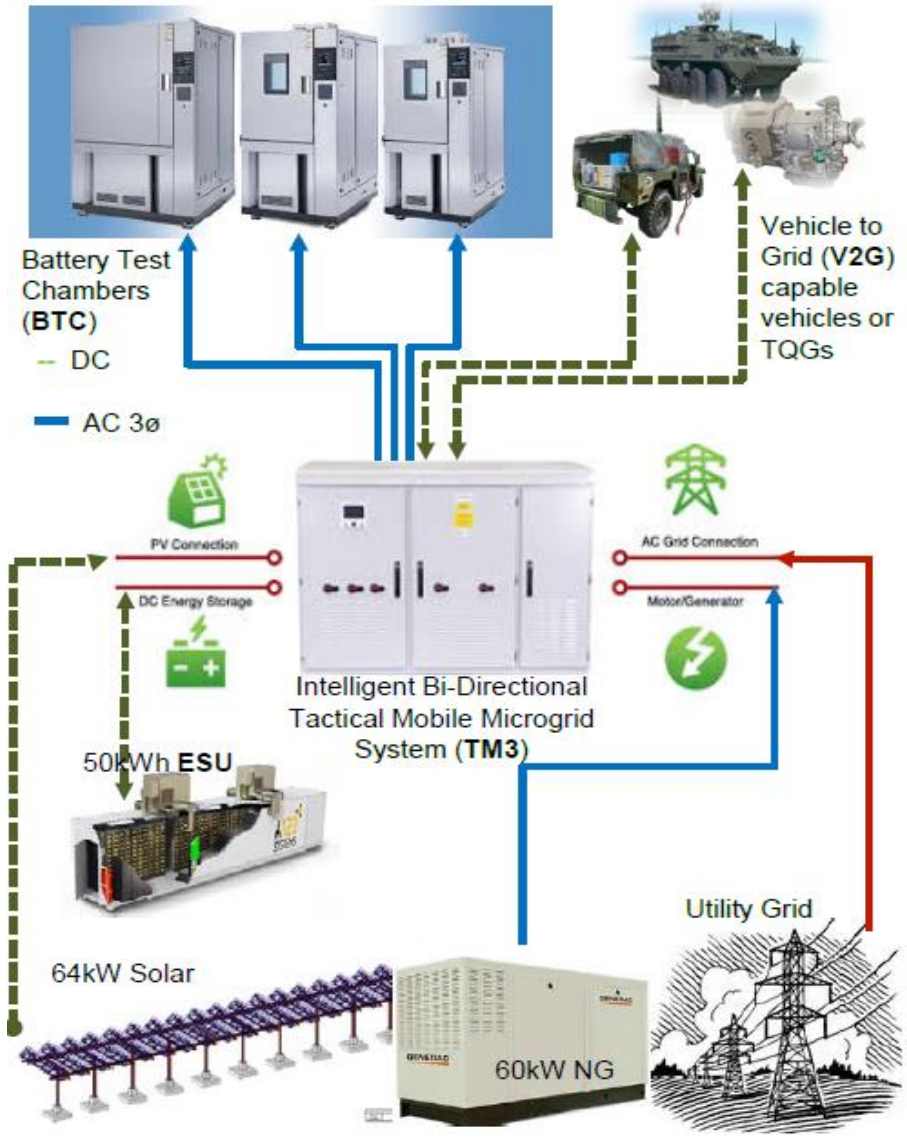


High Power Module

MICROGRIDS AND OTHER OPPORTUNITIES

CRANE

- Addresses DoD energy challenges
- Uses a generator, battery or renewable resources
- Advantages
  - Not dependent on outside fuel sources
  - Redundancy
  - Decentralized generation and distribution
  - Lower fuel consumption
  - Ability to redistribute available energy

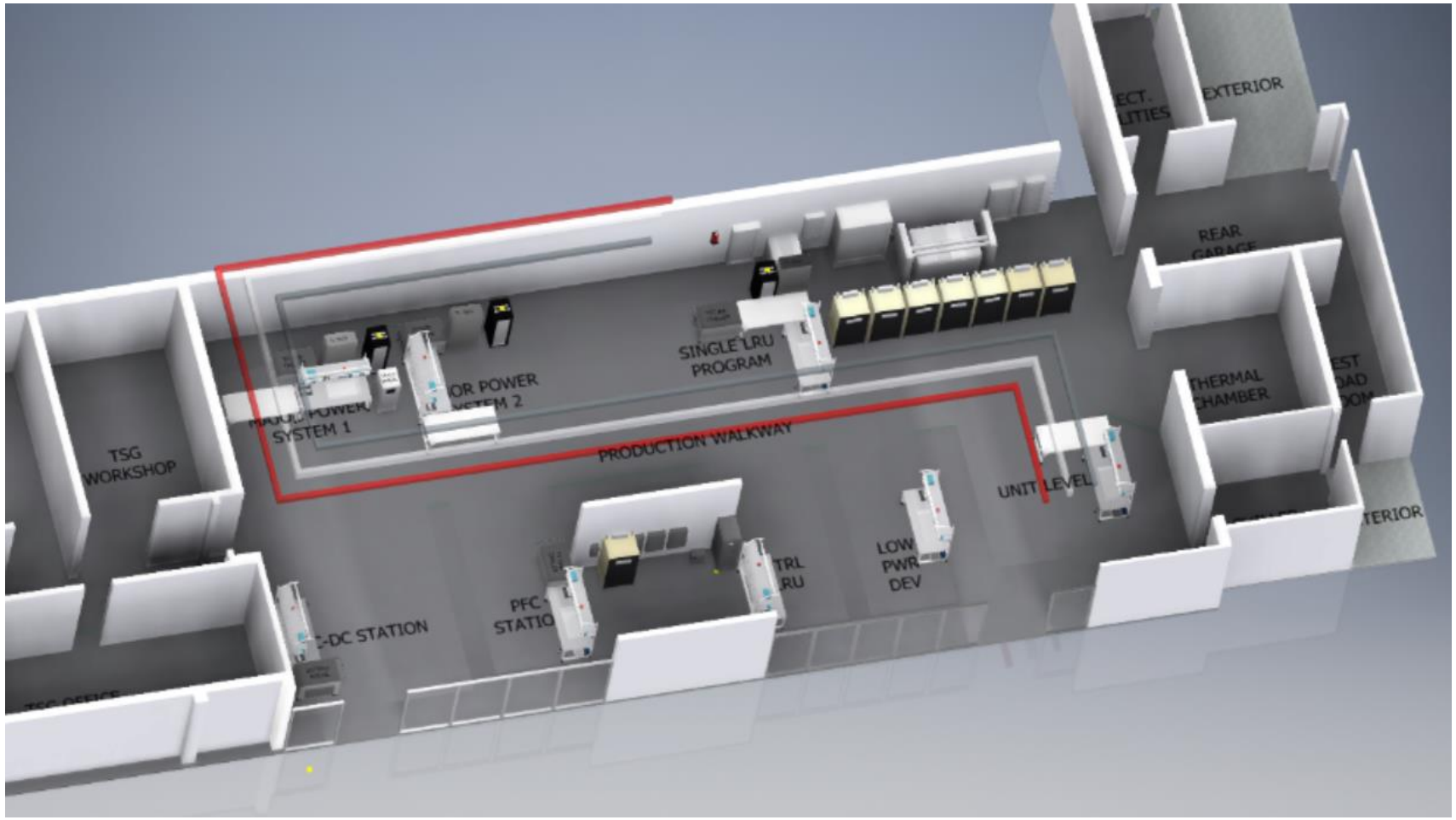


HIGH POWER TEST LAB

CRANE

- **1.48 MW of Capability**

- **Features**
  - 7000 Sq. Ft.
  - 1MW Power availability
  - Discrete/Systems
  - Three overhead power rails
    - 277/480 Vac
    - 120/208 Vac
    - Variable voltage, variable frequency
  - Static/Pulsed loads
  - Environmental capability
  - Multiple workstations

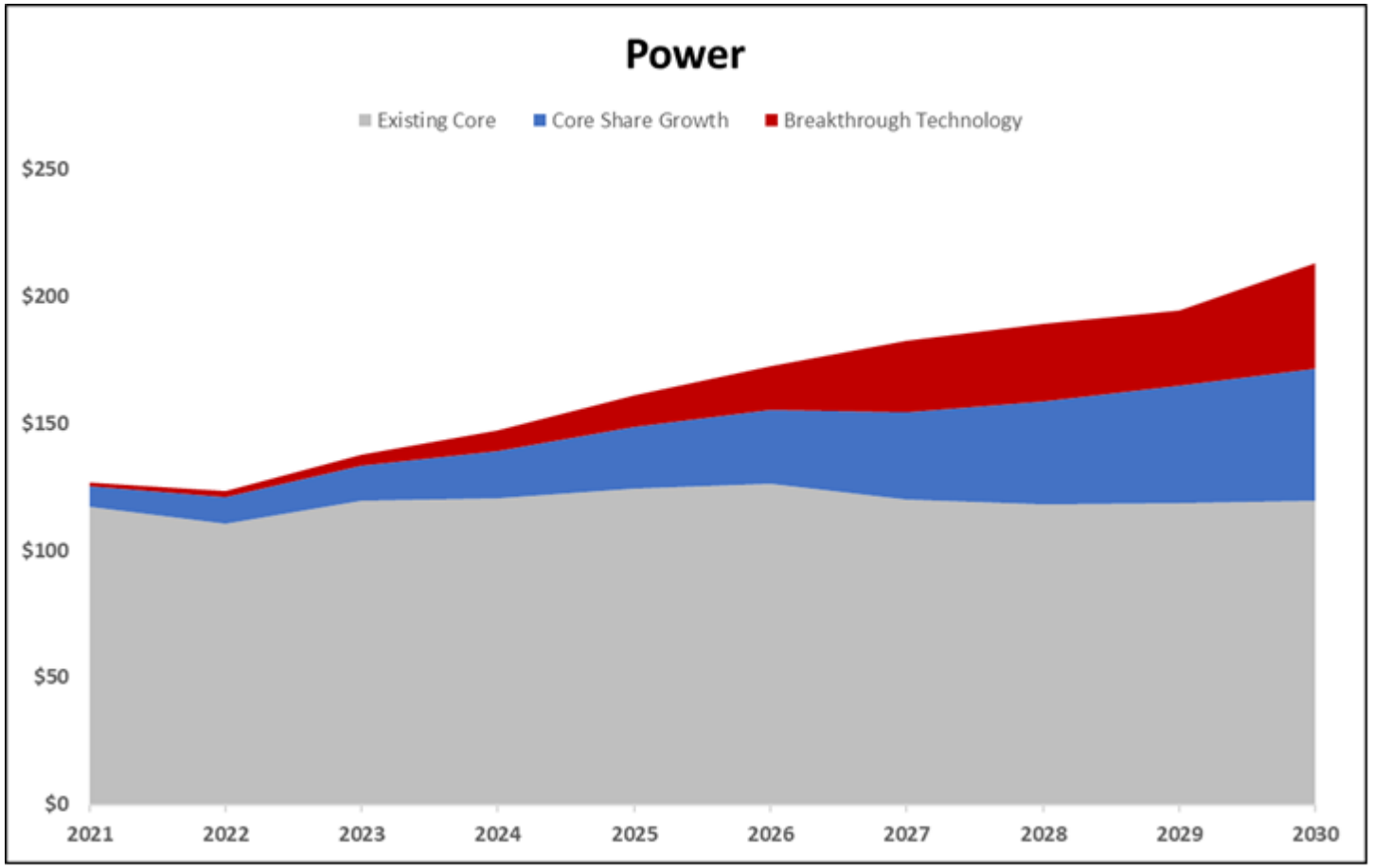


ENABLING NEXT GENERATION POWER SYSTEMS

GROWTH POTENTIAL

CRANE

- Designing products for next generation electric systems
- High Power Density
- Industry leading development and test capability



AESA POWER DRIVING GROWTH; POSITIONING FOR THE EMERGING MEV MARKETS

CRANE®

AEROSPACE & ELECTRONICS

INNOVATIVE | TRUSTED | COLLABORATIVE



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