

Electrification of Heavy Industrial Equipment and Machinery

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The Industrial Heavy
Equipment industry is
Dominated by Heavy
Emission Internal
Combustion Diesel
Systems



Carbon Emissions



According to the EPA, burning one gallon of diesel produces **22.4 lbs of CO₂**



Passenger Car

- Uses 1.75 gal gasoline per hour
- Emits 4.6 metric tons of CO₂ per year



Transit Bus

- Uses 1.5 gal diesel per hour
- Emits 34.9 metric tons of CO₂ per year



Heavy Equipment

- Uses over 4.0 gal diesel per hour
- Emits **91.5 metric tons** of CO₂ per year

91.52 Tons
(183,040 pounds)
CO₂
Produced per year
by One Front Loader

to offset one machine

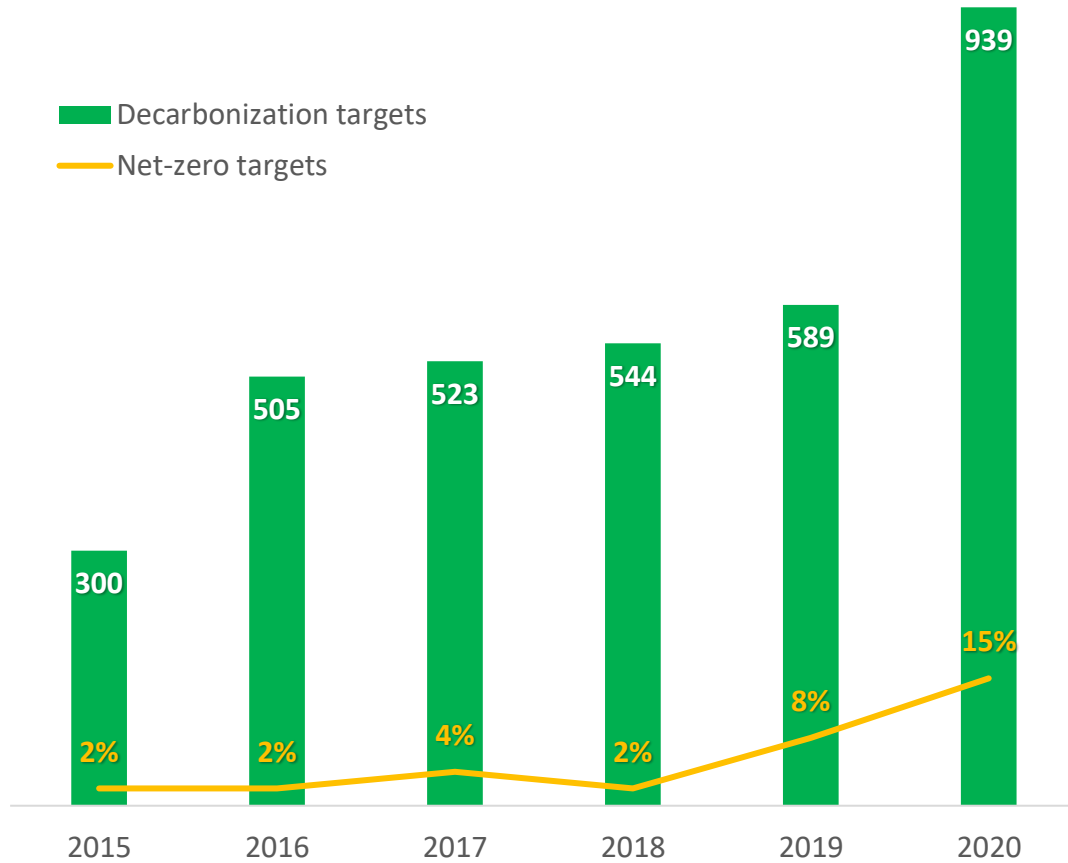
You would need
25.4
acres

Increasing Commitments to Sustainability

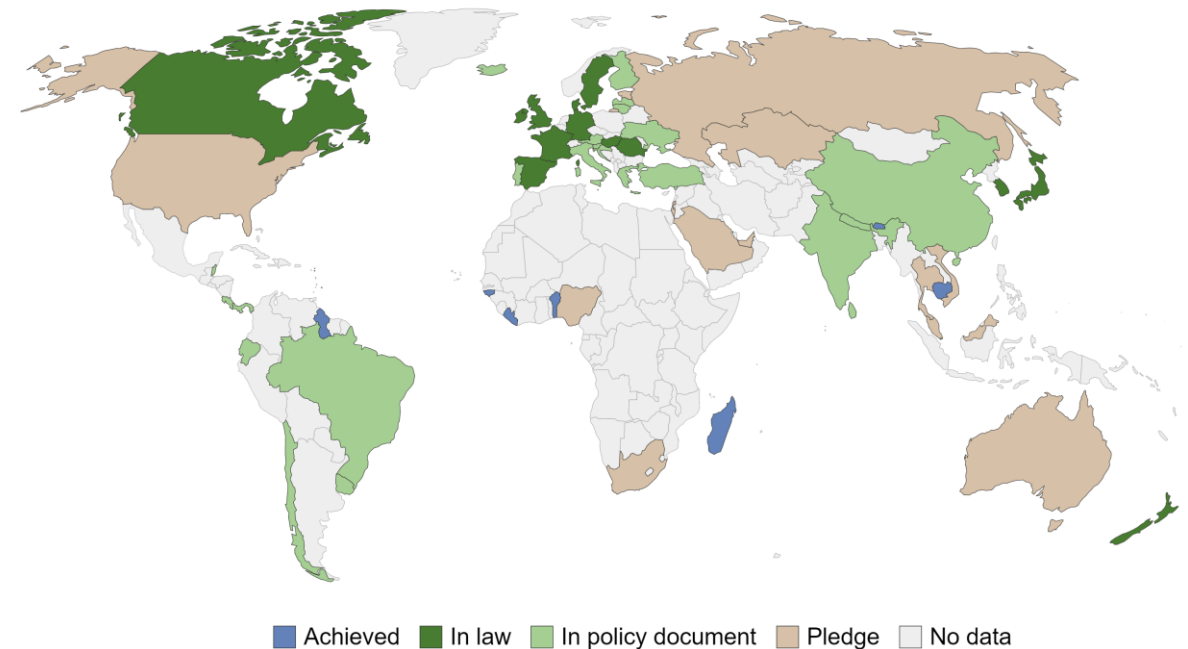


Decarbonization Targets Set By Publicly Listed Companies¹

Net-Zero Emissions Targets Set By Countries²

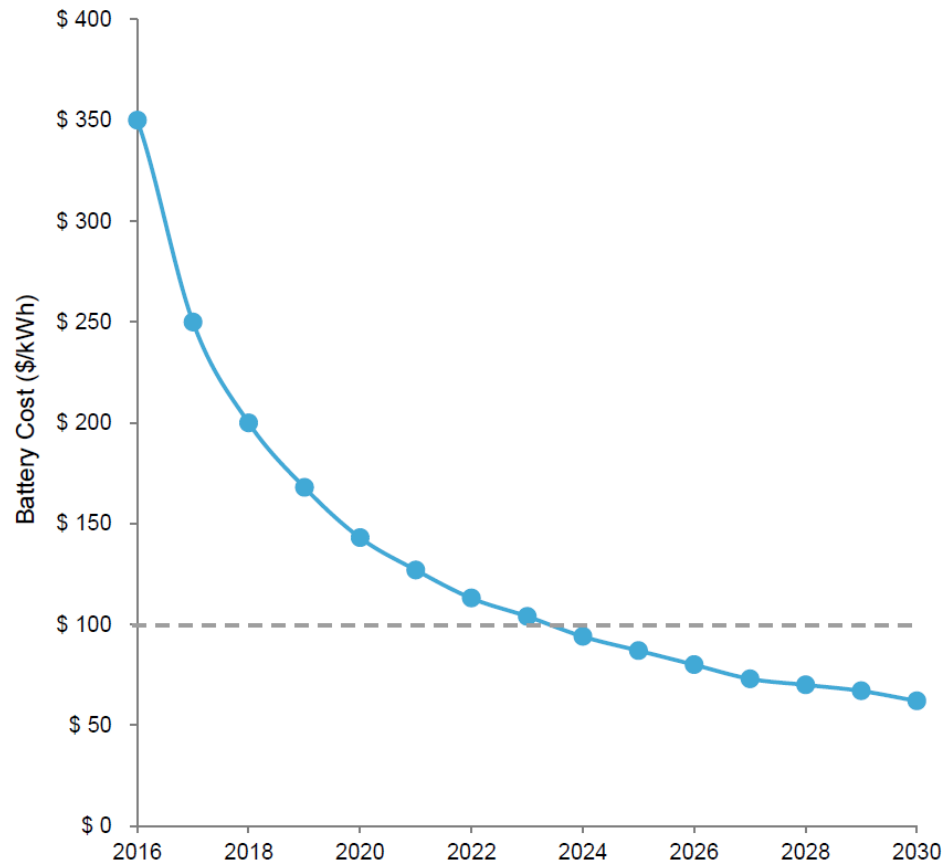


66 Countries Have Set Net-Zero Emission Targets
21 Have Set Their Targets In Law



Decreasing Battery Costs Drive Adoption Of New Electric Applications

Battery costs drop <\$100/kWh beginning in 2024; EVs compete on cost with ICE



ICE



ELECTRIC

TESLA



BYD



HEVI



Industrial Market Electrification Opportunity



FORKLIFTS

>\$80.0B

GLOBAL MARKET SIZE¹

8.0%

CAGR

66.5%

ELECTRIC MARKET SHARE

CONSTRUCTION MACHINERY

\$237.0B

GLOBAL MARKET SIZE²

4.5%

CAGR

<0.1%

ELECTRIC MARKET SHARE

The Industrial Heavy Equipment industry is Dominated by Heavy Emission Internal Combustion Diesel Systems

Benefits of Electric Industrial Equipment



Benefits Of Electrification



Low Carbon Footprint

- No operating emissions for a cleaner worksite
- Saves over 92 tons of CO₂ emissions per year



Less Noise Pollution

- Over 60% less operating noise and vibration
- Ideal for sensitive areas (cities, schools, parks)



Simple To Use

- No fossil fuels or tanks to transport and store
- Fast charging allows greater vehicle uptime



Simple Maintenance

- 40% less maintenance needs than ICE vehicle
- No required expensive maintenance packages



Significant Fuel Savings

- Hourly operations costs ~\$4/hour of electricity
- Yearly savings up to \$84,000 compared to diesel

Applications



Agriculture



Warehouse



**Property
Management**



Construction



**Waste
Management**



Manufacturing



Municipal



Mining

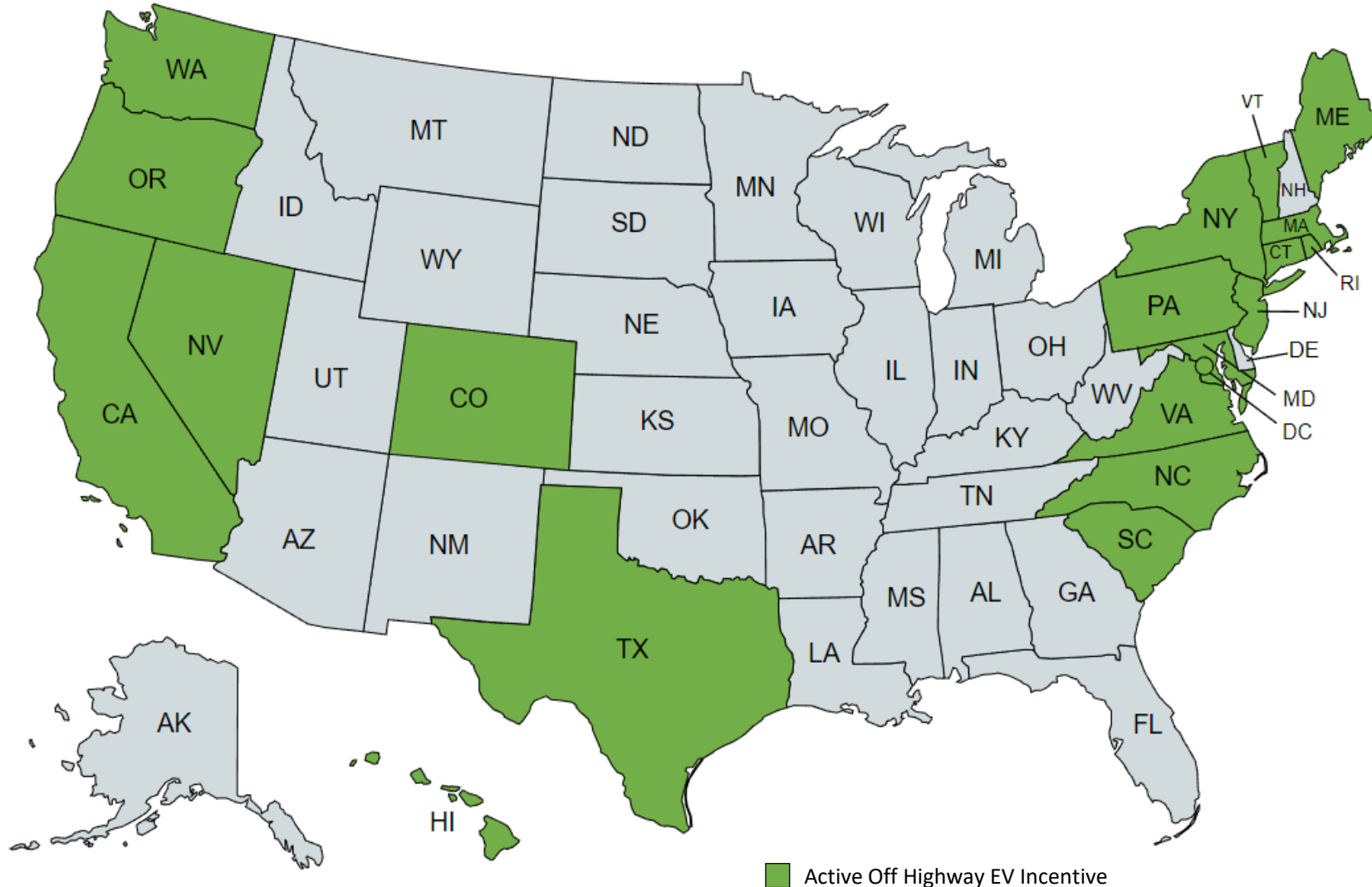
Perfect for Salt Operations



No fuel spillage to foul salt reserves and water ways. No emissions for safer use in salt silos.



Off Highway EV Incentives



- In 2022, HEVI Corp championed the first off-highway EV incentive passed in the USA in Maryland
- The incentive supports 20% of the purchase price of electric heavy industrial equipment



CHANGING
Maryland
for the Better

- Many states began to follow suit

Massive Global Opportunity



+1M heavy industrial diesel equipment produced annually representing over \$200B in sales



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