

## Driving Green Innovation: Godawari Power & Ispat Ltd. Leads the Way with EV Loaders

OCT 2024

**A**t Godawari Power & Ispat Ltd. (GPIL), sustainability isn't just a commitment—it's our core strategy. As one of India's pioneering names in the secondary steel manufacturing sector, we are proud to lead the charge in industrial decarbonisation through actionable innovation.

A cornerstone of this drive is the deployment of Electric Vehicle (EV) Loaders, replacing traditional diesel-powered equipment in our operations.

### A Bold Step Toward a Greener Future

In October 2024, GPIL integrated 12 state-of-the-art EV loaders into its plant premises, handling critical tasks like slag and scrap transfer, raw material handling, and yard operations—all fully replacing diesel-run machines. This bold move underscores our commitment to reducing carbon emissions and supports India's Net Zero ambitions.

### The Technology Powering Change

Our electric loaders are powered by state-of-the-art lithium iron phosphate (LFP) batteries, offering high energy efficiency, zero tailpipe emissions, and significantly reduced operational noise. Among the models deployed:

- **BEV-820TE** – Compact yet powerful with a 70.5 kWh battery, capable of delivering up to 50 kN breakout force with a 2,000 kg rated load capacity. Ideal for agile operations in constrained industrial environments.
- **856HE MAX** – A heavy-duty performer with a massive 350 kWh battery, producing up to 162 kN breakout force. Engineered for high-volume handling with a 3.5 m³ bucket capacity and faster cycle times.
- **838EV** enhances our EV fleet with a balance of power and efficiency. Based on the proven 838H Max platform, it weighs around 12.2 tonnes and offers bucket capacities up to 3.5 m³. Delivering over 120 kW of electric output, the 838EV operates with an LFP battery, advanced cooling, and smooth, zero-emission performance suited for plant operations.
- Completing our deployment is the LiuGong 922FE, a 24-tonne electric excavator built for heavy-duty tasks like trenching and lifting. It runs on a 423 kWh LFP battery and a 165 kW motor, offering 152 kN of digging force and up to 10 hours of runtime per charge. Fast-charging, low noise, and rugged protection make it ideal for intensive, eco-conscious work environments.

All models feature intelligent liquid cooling, IP67 protection, and fast charging capabilities, ensuring efficient uptime and adaptability to harsh working conditions.

### How GPIL Benefits from This Shift

- The replacement of diesel loaders with electric models brings multiple advantages:
- **Substantial GHG Reduction** – Zero tailpipe emissions in plant operations
- **Reduced Running Costs & Maintenance** – Fewer moving parts, no diesel fuel
- **Quieter, Cleaner Workplace** – Improved compliance with ESG standards
- **High Productivity Uptime** – Fast charging, long runtimes, robust design

### Setting an Industry Benchmark

Deploying 12 EV loaders—including BEV-820TE, 856HE Max, 838EV, and 922FE—is not just an emissions control measure; it's an exemplar of how traditional heavy industries can embrace clean tech without sacrificing efficiency or power. At GPIL, we're not just building steel. We're building a sustainable legacy—one electric lift at a time.

