



Rail. Reborn. Ready to Roll.

Intramotev is ready to transform your rail operations.



INTRAMOTEV



OUR APPROACH

Intramotev builds battery-electric railcars to automate and decarbonize freight movement for railroads, plants, mines, and ports.

We make rail faster and more flexible.

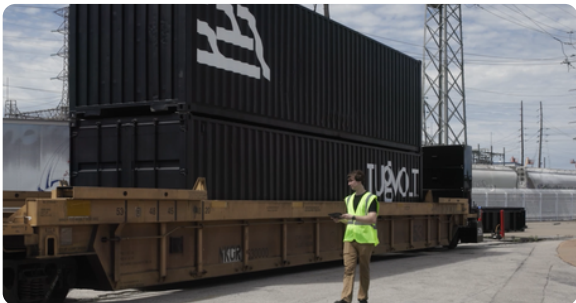
TUGVOLT™

SELF-PROPELLED RAILCAR RETROFIT KIT



FULLY BATTERY-ELECTRIC

The TugVolt is a battery-electric self-propelled railcar retrofit kit. We designed the TugVolt to help replace trucks in mining and transloading, move raw materials between facilities in plants or mills, and switch traditional railcars.



CUTTING FUEL COSTS

The TugVolt offers customers a 30% to 80% reduction in total transportation costs versus trucking and produces zero tailpipe emissions. It can also be operated remotely, keeping humans physically removed from dangerous railcars.



BACKWARD COMPATIBLE

The TugVolt is backward compatible and can be applied to any car or commodity type (hopper, box, intermodal, flat, tank, autorack, etc.) It can pull up to five traditional railcars.

***Want to see the TugVolt
in action? Scan the QR
code to take a look.***



ReVOLT™

RECYCLING WASTE ENERGY IN TRADITIONAL TRAINS



A HYBRID SOLUTION

The ReVOLT is a battery-electric, self-propelled railcar for creating hybrid unit trains. It allows customers to recycle waste energy using regenerative braking and makes electrification possible without sacrificing train length.



NO GREEN PREMIUM

The ReVOLT reduces diesel costs and emissions, and frees up expensive locomotive assets by replacing distributed power units. The savings are built into the product, so there's no green premium associated with our technology.



RELIABLE AND FLEXIBLE

Like the TugVolt, the ReVOLT can be applied to any car or commodity type. It also features a communications system to coordinate and integrate with a locomotive as well as an onboard charger and air compressor.



INTRAMOTEV

USE CASES

We're proud to serve both century-old family businesses and pioneering innovators in the mining industry.

Whatever your freight needs, we're here to deliver.



Mining and Transloading

- The TugVolt is a great tool for replacing trucks and road-trains in mining and transloading operations as well as moving raw materials between different facilities in plants or mills.

Intra-Plant

- The TugVolt can help move raw materials, work-in-progress inventory, and finished goods between facilities in plants or mills. No matter the material, Intramotev provides a reliable solution for moving it.

Switching Operations

- Intramotev can also support switching traditional railcars in-plant. Intramotev currently provides weekly switching services to Eagle Drayage, a 100-year-old family-owned freight carrier.

Electrification

- ReVolt technology enables companies to cut diesel costs by distributing battery energy storage across revenue-generating railcars. This allows for electrification without sacrificing train length.



Case Study

When Carmeuse Americas wanted to cut their fuel costs, they turned to Intramotev for help. Now they operate the world's first independently driven railcar in revenue service.

Carmeuse Americas operates a calcium mine in Michigan's Upper Peninsula, where the seasonal nature of the operation and its remote location make recruiting workers particularly challenging. Carmeuse has partnered with Intramotev to manufacture three TugVolt trains for use at their mine. The first TugVolt was operational in November 2024 and the remaining vehicles will be delivered when the mine reopens in Spring 2025.

Operation Details	
Route	1.5 miles (2.5km) mine to port
Train	1 locomotives, 6 cars
Commodity	Calcium
Volume	1mtpa

Project Benefits and Outcomes	
TugVolt conversion	3 TugVolt retrofits (consist = 3 TugVolts, 3 traditional railcars)
Diesel Elimination	3,000 gal/year
Est. annual OpEx savings	\$300,000 USD
Projected NPV	\$877,000 USD



Intramotev deploys independently driven railcar at Carmeuse mine



What Our Customers Are Saying

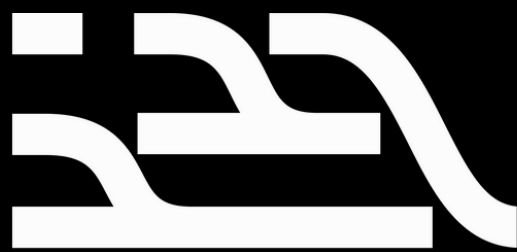
“The TugVolt is revolutionizing our hauling operations by replacing antiquated car spotting processes, optimizing manpower allocation, and reducing overall downtime in our transloading process. It’s truly a game-changer for our business and our bottom line.”

- Duke Koeller, CFO, Eagle Drayage

“Our partnership with Intramotev represents an incredible opportunity to increase our efficiency, decrease our carbon footprint, and keep our workers safe and focused on what they do best through adoption of emerging digital technologies. It’s a win-win for everyone involved.”

- Jeff Bittner, Senior VP of Operations, Carmeuse Americas

Interested in learning more about how Intramotev can transform your rail operations? Visit [Intramotev.com](https://www.intramotev.com) or email Hello@intramotev.com to get in touch with our team.



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