



US FLIRT BATTERY BEMU

Metra, Rock Island Beverly Line

In 2024, Metra placed an order for eight train sets consisting of two cars and one PowerPack each for the Rock Island Beverly Route in Illinois.

The Notice to Proceed (NTP) took place in June 4, 2024, marking the first US FLIRT BEMU order by a US Transit Agency.

This project involves the introduction of the US FLIRT with a winterization package to accommodate extreme winter temperatures.

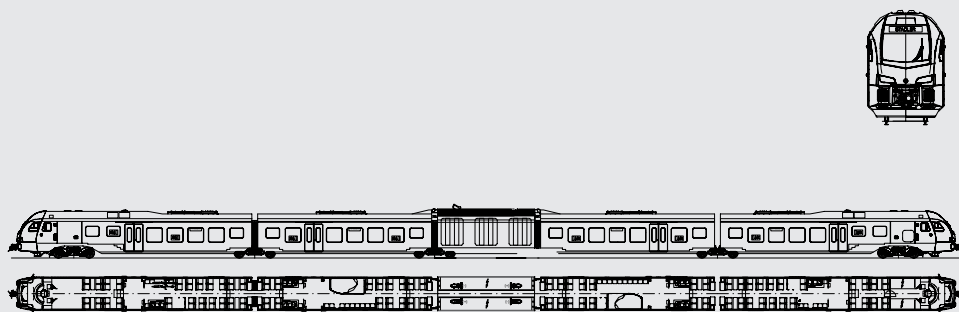
Riders will benefit from the new trains in various ways, including ADA-friendly features, USB ports for powering customer accessories, the transition from diesel to green technology through battery-powered trains, and a winterization package for customer comfort during cold weather.

The trains will have 1MWh power at the wheels and DC fast-charging batteries, connecting Chicago using green technology.

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Technical features

Technology

- Zero-emission battery-electric drive
- LTO battery packs with regenerative braking
- DC fast charging up to 2MW, Plug-in round-trip recharge in under 1.5 hours
- Lightweight aluminum carbody built to FRA Class 1 Crash Worthiness

Comfort

- ADA compliant
- Level entry, low floor boarding height
- USB charging at every seat and in ADA areas
- Cantilevered seats for more legroom and luggage space
- Walk-through gangways across the full trainset

Reliability & Safety

- Redundant vehicle control computers with seamless failover
- Onboard diagnostics with remote data transfer for predictive maintenance
- Built-in cybersecurity with firewalls and network segmentation

Winterization

- HVAC designed for ext. temperatures from -40F to 104F
- Heated pantograph, headlight glass and vestibule floors
- Coupler winter cover and double-layered bellows
- BTMS maintains optimal battery temperature
- Layover mode heats and cools train before service begins

Vehicle data

Customer	Metra
Gauge	56.5" (1435 mm)
Designation	Rock Island Beverly Line (LaSalle to Blue Island)
Axle arrangement	Bo' +2'2' + Bo'
Number of vehicles	8, options for 8 more
Delivery	2028
Seats	208
Tip-up seats	56
Standing spaces	278 (4P/m ²)
Boarding height	24" (615 mm)
Entrance width	71" (1800 mm)
Length over coupling	2027.6" (51500)
Vehicle width	113.4" (2880 mm) 117.3" (2980 mm) PP
Vehicle height	162.6" (4129 mm) 168.7" (4285 mm) PP
Bogie wheelbase	Motor bogie 106.3" (2700 mm) Trailer bogie 106.3" (2700 mm)
Driving wheel diameter	34.3" (870 mm) new
Carrying wheel diameter	34.3" (870 mm) new
Continuous power at wheel	1 MWh
Max. power at wheel	1 MWh
Maximum speed	79 mph (127 km/h)