

NIBE Element Railway Solutions North America

NIBE Element Railway Solutions North America (NIBE North America) is a subsidiary of The NIBE Group, a Swedish-based, global leader in sustainable energy solutions with over 21,000 employees in 30+ countries.

NIBE North America’s rail heating systems are built upon advanced European rail heating technology, purpose-built in the U.S. for North American rail operators.



When Winter Hits Hard, NIBE Advanced Rail Heating Solutions Keep Trains Moving

NIBE North America’s electric rail heating solutions are based upon advanced rail heating technology developed by SAN Electro Heat (SAN) and deployed across Europe. Our patented dual-element heating system was designed in response to the catastrophic blizzard that shutdown rail operations across the Northeast region of the U.S. in 2015.

Noting the failure of traditional track switch heating systems, NIBE North America, in partnership with OMNI Control Technology (OMNI), developed the first-ever dual-element modulated rail switch heating system. Designed, automated, and built in the U.S., Blue Point uses patented pulse width modulation (PWM) to dial in the exact wattage needed—keeping tracks free of ice and snow, even in the most extreme conditions.

The PWM controller’s ability to modulate energy use has created an added advantage; energy **savings of 90% and higher** have been achieved where Blue Point has been deployed.

Since the introduction of Blue Point, NIBE North America has developed a comprehensive portfolio of electric rail switch and catenary heating and monitoring solutions. We’re here to help you create the best rail heating system to keep your tracks free of ice and snow, make life simpler for operators, and enable significant energy savings.



Electric Rail Heating and Monitoring Solutions



**BLUE
POINT**

- **Blue Point Switch Heating Control System:**

Completely autonomous system utilizing weather sensors, rail sensors, and predictive services to control rail heat autonomously.



**BLUE
WIRE**

- **Blue Wire Automated Catenary Heating Control System:**

Powered directly from overhead wires, Blue Wire heats wires to prevent ice before it forms. The only catenary wire heating system available in North America.



**BLUE
RAIL**

- **Blue Rail Third and Running Rail Automated Heating Control:**

Optimized, uninterrupted service of a third rail traction-power rail vehicle.

- **Embedded Rail Heaters:** Waterproof heating for embedded light rail and trolley systems.
- **Intelligent Weather Station (IWS) Advanced Control and Monitoring System:** Automates legacy systems for optimal performance and energy efficiency.
- **Monel 400 Sheathed Flat Heaters:** Engineered for unmatched longevity, corrosion resistance, and performance in rail environments where traditional stainless-steel heaters fail.



1987

SAN deploys first rail heating solution for British Rail



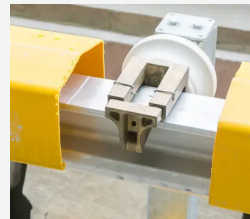
2000

Autonomous Electric Rail Switch Heating system developed by SAN.



2017

NIBE North America introduces patented dual-element heating system to the North American market with first deployment for Amtrak.



2025

Over 500,000 electric switch heating and more than 2,000 autonomous rail heating control deployed across Europe.



2026

NIBE North America introduces 1500 V DC Blue Wire catenary heating for light rail systems

NIBE ELEMENT
RAILWAY SOLUTIONS
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