



Greenway Steel Partners with S1Seven to Digitally Transform the Metals Supply Chain

A breakthrough partnership delivering verified data, transparency, and sustainability for steel and metals manufacturers.

Driving Change in a Data-Driven Industry

The metals supply chain is entering a period of rapid transformation. As global markets demand verifiable sustainability data and regulators introduce new carbon reporting rules, traditional systems of paper certificates and disconnected databases no longer suffice.

At Greenway Steel, we've built our business around helping manufacturers and distributors navigate developing Sustainability related initiatives. Now, in partnership with S1Seven, a leading European provider of blockchain-based digital infrastructure, we're taking the next step, delivering digital material passports (DMPs) that bring trusted, verifiable data to every link in the steel value chain.

This collaboration gives our customers a practical, future-ready solution for traceability, carbon accountability, and compliance, all powered by a secure, interoperable digital backbone.

The Industry Challenge

Steel and metals producers generate a massive amount of data, from chemical composition and mechanical properties to energy use and emissions. This data, employing latest technology, can be shared more efficiently and consistently across the value chain.

Mill test certificates, quality records, and sustainability declarations typically move through email, PDFs, or spreadsheets, formats that can be lost, duplicated, or even altered. Environmental metrics such as embedded CO₂ often get trapped in isolated systems, making it difficult to comply with frameworks like the EU Carbon Border Adjustment Mechanism (CBAM) or emerging Digital Product Passport (DPP) requirements.

The result? Bottlenecks, redundant work, and uncertainty over what's "true." The metals industry needs a way to exchange data that is verifiable, standardized, and trusted across organizations.



The Solution: Digital Material Passports

S1Seven’s blockchain-based platform enables exactly that.

A **digital material passport (DMP)** acts as a living digital record of a product or batch of steel. It contains key information such as composition, performance, and environmental footprint; data that can be securely updated via ledger accounting as the material moves from producer to processor to OEM.

Each record is cryptographically signed and stored on blockchain, ensuring that data integrity is guaranteed and that all participants in the chain have access to the same verified information.

“The metals industry doesn’t need more paperwork. It needs verified digital data that everyone can trust.”

— *Randy Charles, Founder, Greenway Steel*

How the Partnership Works

In the Greenway–S1Seven model, every participant in the supply chain contributes verified data to the DMP:

1. **Steel Producer:** Uploads batch-level production and emissions data.
2. **Processor, Fabricator or Service Center:** Adds processing information (cutting, coating, fabrication) while preserving the chain of custody.
3. **OEM:** Accesses verified, structured data for LCA or CBAM reporting.
4. **Reporting Entity:** Uses the DMP for integrated ESG or compliance submissions.

The DMP becomes a single source of truth, reducing redundancy, human error, and audit time across the entire value chain.

Tangible Benefits for Industry Stakeholders

- **Verified Carbon and Compliance Data:** Automates emissions reporting and ensures traceable CO₂ data for each batch. Ideal as well for material test results, chemistries, and certifications
- **Efficiency Gains:** Replaces paper and spreadsheets with real-time digital workflows.
- **Enhanced Trust:** Eliminates data disputes and builds transparency across partners.



- **Sustainable Sourcing Advantage:** Meets growing OEM and regulatory demands for verifiable sustainability data.
 - **Regulatory Readiness:** Aligns with EU DPP and international traceability frameworks.
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Looking Ahead

Greenway Steel’s collaboration with S1Seven is more than a technology deployment, it’s a strategic step toward digital sustainability leadership in the metals sector.

By demonstrating how verified data can move securely across the steel lifecycle, we’re enabling our partners to meet emerging global standards while improving operational efficiency and transparency.

Our goal is simple: to ensure that when it comes to carbon and compliance data, our customers are ahead of regulation and not chasing it.

About Greenway Steel

Greenway Steel helps metals and manufacturing companies advance sustainability and compliance through data-driven initiatives and trusted partnerships.

About S1Seven

S1Seven provides blockchain-based infrastructure for digital material passports, enabling secure, interoperable, and verifiable data exchange across industrial supply chains.

For more information, contact info@greenwaysteel.com.
