

Siemens: Evidence-Based Sustainability With Verifiable Results

SIEMENS

Context

With more than 175 years of history, Siemens has established itself as a global technology leader in engineering, innovation and sustainability. Its operations span essential sectors including smart infrastructure, energy distribution systems, industrial automation and the digitalisation of manufacturing processes.

In an environment where decarbonisation, resource efficiency and transparency are no longer optional, Siemens has built its leadership through a distinctive approach to measuring, verifying and communicating its sustainability impact with scientific precision.

The Challenge: Turning Decades of Effort Into Measurable and Communicable Impact

For decades, Siemens has advanced multiple sustainability initiatives across different areas and regions. The real turning point came in 2021 with the launch of DEGREE, a strategic framework that aligned all efforts under ambitious and measurable objectives.

The results have been notable. Seven of the 14 DEGREE objectives were achieved one year ahead of schedule. In 2025, the company raised its ambitions for 2030, committing to scale this transformation exponentially.

However, the main challenge was not only to take action, but to demonstrate that impact in a verifiable way, create metrics that reflect both the company's internal footprint and the positive footprint generated for customers,

and establish a common language with the market based on data rather than promises.

“For Siemens, the key is making sustainability measurable. Our DEGREE framework is how we generate impact, guide performance and integrate our values into everything we do.”

Nina Bergmann,
Sustainability Director, Siemens Spain

Sustainability Integrated Into Business Strategy

Siemens has taken a decisive step by fully integrating the DEGREE objectives. Sustainability is no longer a parallel initiative, but a fundamental part of the business strategy. This convergence translates into measurable direction, clear prioritisation of resources and transparency at every level of the organisation.

Its approach is structured around three pillars of impact:

- 1. Decarbonisation and energy efficiency:** Both within its own operations and through the solutions it provides to customers.
- 2. Circularity and resource efficiency:** From product design through to end of life.
- 3. Impact on people:** Covering employees, communities and the entire value chain.

This strategic architecture enables Siemens not only to advance its own transformation, but also to amplify the transformation of its customers at a global scale.



Innovations in Measurement and Transparency: Two Leading Examples

1. Customer Avoided Emissions: Measuring the Positive Footprint

While many organisations focus exclusively on reducing their own emissions, across Scopes 1, 2 and 3, Siemens has gone one step further by creating Customer Avoided Emissions, an innovative metric designed to quantify the positive climate impact of its technologies.

This metric measures the emissions that customers avoid by using Siemens products and solutions compared with conventional alternatives, through three mechanisms:

- Optimised energy efficiency
- Enabling renewable energy
- Accelerated electrification

With a methodology aligned with the WBCSD and published in a technical whitepaper, the Customer Avoided Emissions metric uses real-world comparisons against documented reference scenarios.

2030 objective: Avoid more than 1 billion metric tonnes of CO₂e.

2025 result: Solutions sold in 2025 will avoid 199 million metric tonnes of CO₂e over their lifetime, exceeding the 155 million metric tonnes generated by Siemens across its entire value chain.

In other words, the positive footprint is greater than the negative footprint.

2. Siemens EcoTech: Rigorous Certification for Sustainable Products

In a market crowded with unsupported environmental claims, Siemens EcoTech stands out as a certification system based on scientific evidence and external validation. This system provides clarity for customers, regulators, procurement teams and engineers through objective criteria and verifiable data.

To obtain the EcoTech declaration, a product must demonstrate environmental superiority across three dimensions:

- Sustainable materials
- Optimal use
- Value recovery

This is supported by:

- Environmental Product Declarations
- Standardised EcoTech Profiles, validated by third parties from 2025
- External validation by TÜV Rheinland in accordance with ISO 14020 and ISO 14021
- Manufacturing in facilities powered by 100 percent renewable electricity
- Strict compliance with regulations on hazardous substances

In fiscal year 2025, Siemens doubled the number of products with an EcoTech declaration, demonstrating its commitment to verifiable and scalable sustainability across its portfolio.

“Our objective is to generate sustainable impact not only for ourselves, but also for our customers. That is why we recently introduced Customer Avoided Emissions as one of our tangible objectives.”



How Achilles Amplifies Siemens' Credibility and Visibility

Our participation in Achilles and its ESG reviews directly reinforce our strategic positioning with customers that are part of the Achilles communities.

Achilles helps differentiate Siemens in a highly competitive market by providing customers with transparency and traceability on ESG matters.

Through the Achilles platform, we can demonstrate that our sustainability strategy is not merely declarative, but fully integrated into our operational processes and supply chain management. This builds confidence and reassurance among customers who need to comply with demanding regulatory requirements such as the CSRD or the European Taxonomy. It also confirms that, with Siemens, they will find a reliable partner that can help them reduce ESG risks.

From a commercial perspective, Achilles enables us to speak the same language as our customers. Shared international standards and external assessments make it easier for customers to make decisions in procurement processes, supplier approvals and tenders, where ESG credibility is a decisive criterion. As a result, Siemens is perceived not only as a technology supplier, but as a strategic partner.

In addition, with the support of Achilles, Siemens strengthens the central message of its DEGREE strategy: Siemens is ready to support customers in their own sustainable transformation by providing solutions with real and demonstrable impact across the entire value chain.

Overall, Achilles consolidates Siemens' position as a reliable, rigorous and advanced company in sustainability, strengthening its reputation with current and prospective customers and turning its ESG strategy into a tangible competitive advantage in the market.



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