



Electrification

Electrification enables companies to replace fossil-fuel-based systems with cleaner, electricity-powered alternatives, creating a powerful lever for long-term emissions reduction. When paired with strategic load management and thoughtful engineering design, electrification not only reduces operational GHG impacts but can also enhance system efficiency, safety, and resilience.

“Targeted electrification, layered with renewables, has enabled us to deliver measurable, cost-intelligent reductions today.”

– Bridgestone Americas

Highlights

Payback Potential: **Medium**

Implementation Complexity: **Medium**

Key Stakeholders: Facilities Mgrs.

GHG Reduction Potential: **High**

GHG Scopes Reduced: Scope 1

Progress toward these Honda Scorecard Requirements

- Reduce emissions 5.7% annually
- Reduce emissions by 34% by 2030
- Achieve carbon neutrality



How this drives GHG reductions

Transitioning industrial equipment and processes to electric versions cuts direct combustion emissions and shifts energy consumption to the steadily decarbonizing power grid. Align this transition with renewable power procurement for deeper decarbonization advancements.

Where to start

Map where fossil-fuel equipment is used, analyze utility use and cost data, and commission an electrification assessment to determine which systems can cost effectively transition to electric alternatives.

Prioritize projects by replacing high-use or end-of-life assets first and developing a phased roadmap that aligns with capital budgets.

Project examples

- Heat pump boilers
- Heat pump HVAC systems
- Industrial process electrification
- Fleet and yard vehicle (e.g., forklifts, yard tractors) electrification
- Electrification of material handling and internal logistics



Resources to guide you

[SP Energy Optimization Playbook](#): While primarily focused on on-site energy efficiency, this resource includes critical sections on helping establish internal organizational readiness and business case. The playbook equips facilities with the assessment and planning tools, as well as improvement pathways, needed to prepare sites for electrified equipment and higher electrical loads.