



Accelerating decarbonization in the mining industry

The Greenhouse Gas (GHG) Alliance is a pioneering collaborative group formed to guide Komatsu's decarbonization journey by balancing sustainability with operational performance. By bringing together mining industry leaders, the alliance helps identify and prioritize the technologies and infrastructure needed to support real-world, zero-emission mining. One of its first major outcomes is the development of Komatsu's Power Agnostic truck platform — a flexible, future-focused design capable of supporting multiple power sources as the energy landscape evolves. This industry-driven approach is accelerating innovation and paving the way for a lower-carbon future in mining.



The GHG's mission is to:

- Develop and implement zero-emission technologies
- Promote environmentally mindful mining practices
- Share knowledge and best practices
- Drive innovation through joint research and development

Established in 2021

The GHG Alliance unites Komatsu with key mining customers to work toward a shared goal of delivering zero-emission mining solutions to help promote a more sustainable future.

**Learn how the GHG Alliance is shaping the future of
mining on the back page of this brochure**

Advancing the collective effort toward zero-emission mining

Komatsu is committed to empowering our customers on their decarbonization journeys. Our Power Agnostic truck line, a key outcome of the GHG Alliance, demonstrates how collaboration drives advanced technologies that balance performance, efficiency and environmental responsibility, helping customers reduce their carbon footprint while enhancing productivity and controlling operational costs.



Collaboration is key

Collaboration drives innovation, addresses operational challenges, explores cutting-edge technologies and helps develop environmentally mindful solutions for mining's future.



Creating a lasting impact

Driving industry-wide change involves promoting renewable energy, minimizing waste, improving resource efficiency, shaping policy and reducing environmental impact.



Paving the way

Accelerating the adoption of zero-emission technologies, including battery-electric vehicles, hydrogen fuel cells and renewable energy sources, is essential for building a greener future.



Making connections that last

Connecting mining companies, suppliers and industry associations provides the coordination and resources needed to reduce greenhouse gas emissions and drive environmental responsibility effectively.

Achieve carbon neutrality by 2050

How is the GHG Alliance making a difference?

- Powering pilot programs for Power Agnostic Diesel (PAD) and Power Agnostic Battery (PAB) trucks
- Leveraging industry partners to develop supporting infrastructure for electric mining vehicles
- Expanding global reach of electric truck pilots to accelerate industry adoption

Preparing for the future with training and support

- Leading operational readiness workshops that focus on safety, charging infrastructure and procedures
- Delivering safety and performance training for electrified mining equipment
- Guiding customers through the evolving decarbonization landscape for a more seamless transition

Komatsu's decarbonization goals by 2030

- Reduce product-related CO2 emissions by 50%
- Cut production-related CO2 emissions by 50%
- Source 50% of our energy from renewable sources



Explore how the GHG Alliance is driving meaningful change in mining

The Alliance includes



Founding members



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