MRMI

Driving Decarbonization through Emissions Transparency: Stories from the Steel and Aluminum Industries April 17, 2024

Agenda

ltem	Facilitator/Speaker	Time
Welcome and introduction	Hao Wu and Nicole Labutong	5 min
Presentation and panel discussion	Wenjuan Liu and invited speakers	35 min
Q&A	Hao Wu	10 min
Next phase of work and wrap-up	Nicole Labutong	10min

Speakers



Nicole Labutong RMI Principal



Rémi Julio Hydro Sustainability & LCA Engineer RMI – Energy. Transformed.



Hao Wu RMI Manager



Samuel Berrigan ARUP Façade Engineer



Wenjuan Liu RMI Manager



Moe Benmbarek Oldcastle Sr Engineer



Fernando Antonanzas Alcoa LCA Manager



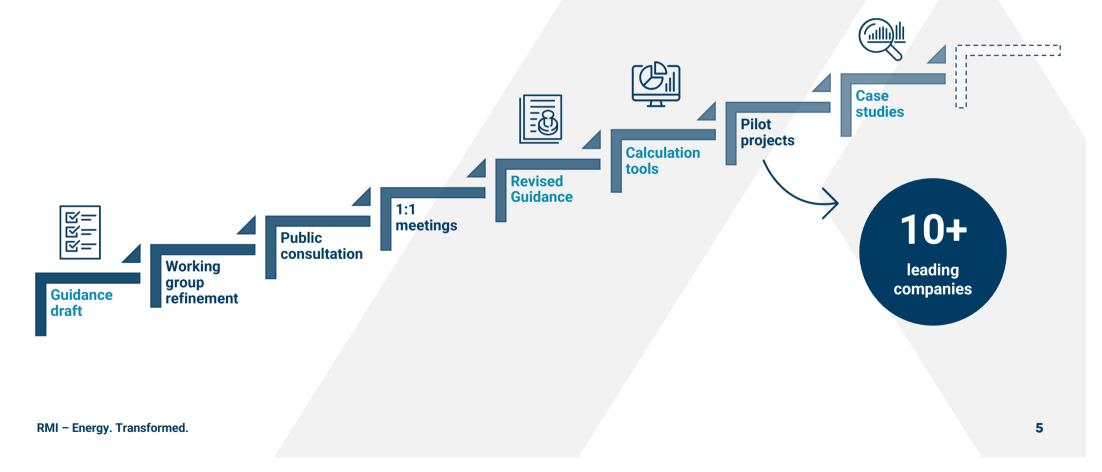
Nick Coleman Tata Steel Principal Sustainability Specialist



RMI'S EMISSIONS TRANSPARENCY WORK

Solutions developed with industry stakeholders

100+ organizations engaged through working groups, 1:1 meetings, public consultations, and pilots





Pilot outcomes

Driving steel and aluminum decarbonization through emissions transparency

Cross-cutting outcomes

Enhancing decarbonization strategies through emissions transparency, consistency, comparability and collaboration

Aluminum: Hydro and US Electric Vehicle Manufacturer

Comparable and transparent climate data metrics drive potential changes in the buyer's supplier engagement for more responsible sourcing practices. Aluminum: Alcoa, Oldcastle BuildingEnvelope, Arup, and BXP

A collaborative model between an aluminum producer, curtain wall manufacturer, building façade designer, and property manager to enhance emissions transparency across the buildings value chain.

Steel: ArcelorMittal and Toyota



Clearly defined boundaries and calculation rules enables emissions comparability among steel products.

Tata Steel UK and Jaguar Land Rover

Calculating and transferring product-level data, and exploring how the reported data could be utilized to facilitate procurement of low GHG emissions steel.

Steel: Chinese Steelmakers and Automakers

A standardized data format facilitates the uniform presentation of product climate data throughout the supply chain, streamlining the reporting process for suppliers and simplifying data collection for buyers.

Case studies show impact of data-driven action

Pilots demonstrated that improving data transparency can enable decarbonization action

ALUMINUM: AUTOMOTIVE

- Integrating sectoral targeted metrics in supplier survey could improve responsible sourcing practices
- **Standardized emissions data exchange** enabled integration and scale benefits.

ALUMINUM: BUILDINGS

- Standardized calculation tools can reduce the emissions calculation and reporting burden for aluminum companies.
- Improved embodied carbon specifications for façade systems inform the procurement of low-carbon aluminum.

STEEL: AUTOMOTIVE

- Product level data will inform participant's internal carbon pricing system
- Product-level data will be critical establishing the scope 3 inventory for participant to set 1.5 C aligned reduction targets

STEEL: AUTOMOTIVE

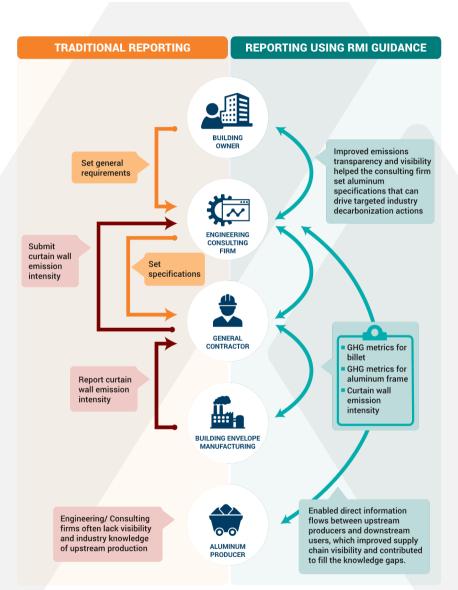
- Standardization and harmonization of assessment methodologies and data exchange could support corporate in supply chain emissions reduction.
- The additional metrics could enhance transparency regarding **suppliers' abatement actions**, thereby improving procurement practices.

Aluminum pilot

Alcoa - Oldcastle - Arup - BXP

RMI Aluminum Guidance was used to:

- Enhance collaboration on emissions reporting and data exchange across the buildings value chain
- Reduce emissions calculation burden
- Develop specifications that drive procurement of low carbon aluminum



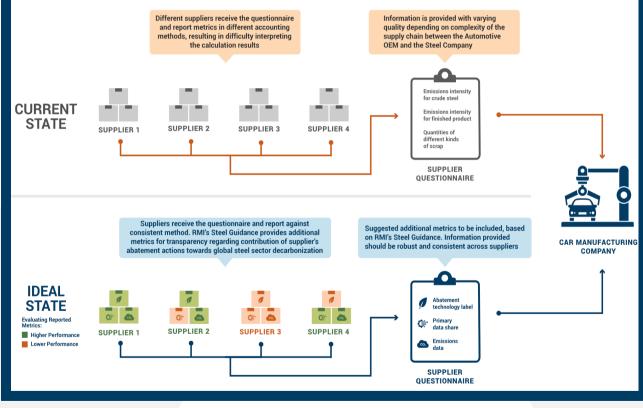
*Note that between the Building Envelope Manufacturer and the General Contractor, usually there is the building envelope/glazing contractor. This was not included in the graphic for brevity.

Steel pilot

Tata Steel UK and Jaguar Land Rover

RMI Steel Guidance was used to:

- Test product-level GHG data reporting
- Strengthen **shared understanding** of reporting processes and challenges
- Improve supplier data collection for sustainable procurement practices





Panel Discussion

Moderator:

• Wenjuan Liu, Manager, RMI

Speakers:

- Fernando Antonanzas, Life Cycle Assessment Manager, Alcoa
- Moe Benmbarek, Sr Engineer, Oldcastle
- Nick Coleman, Principal Sustainability Specialist, Tata Steel
- Rémi Julio, Sustainability & LCA Engineer, Hydro
- Samuel Berrigan, Façade Engineer, ARUP





The road ahead

The challenges that remain, and our work to address them

Challenges remain in translating disclosure into action

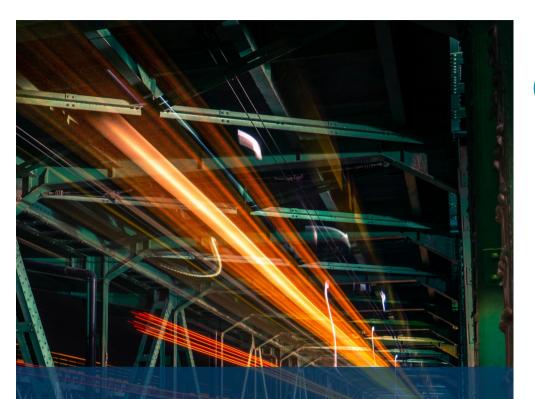
Incentive Stronger incentives required for suppliers to take reduction actions

Capacity

Suppliers lack necessary knowledge and capacity to calculate emissions

Knowledge gaps remain in how to:

- Improve supplier data quality
- Interpret uncertainty in data
- Build internal momentum and buy-in for impactful projects
- Effectively engage suppliers
- Implement reduction
 actions
- Track supplier progress
- Quantify emissions
 impacts and costs



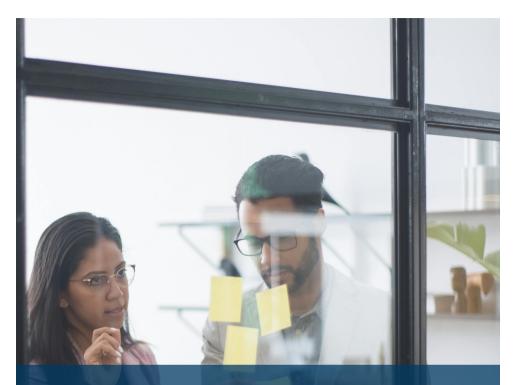
Buyers' Handbook

A guide for Scope 3 supply chain action



Empower downstream corporates with actionable guidance to address emissions hotspots in their supply chain through better product-level data, focusing on the following areas:

- Improving GHG footprinting and target setting using relevant, supplier-specific data
- Implementing GHG reduction levers that align with corporate needs and strategies
- Having a clear path built internally for stepping up for more impactful actions



Supplier Training

Building emissions reporting capacity



Strengthen the reporting capabilities of

suppliers by enabling effective emissions measurement and reporting through upskilling organizations with little to no emissions reporting capability, thereby:

- Improving the availability of supplierspecific emissions data
- Providing data that provides insight to material decarbonization "hot-spots"
- Reducing burden for buyers needing to train suppliers

Our collaborative model

How to get involved and support RMI's work on supply chain decarbonization



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Contact us



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Wenjuan Liu Manager wliu@rmi.org



Your input is highly valued!



