

2027 Workstream Summary & Terms of Reference

Molecule Group Workstreams: A Platform for Global Collaboration

Molecule Group is a policy firm and industry convenor focused on accelerating the deployment of sustainable fuels, chemicals, and materials across global markets. In an increasingly complex policy landscape, **Molecule Group fills a critical gap by providing a cross-technology, cross-border platform for advancing policy alignment on sustainable molecules.** Others separate molecules by end use, domestic needs from international perspectives, or climate ambition from commercial feasibility. Molecule Group brings those conversations together—across sectors, across borders, and across value chains.

As an industry convenor, Molecule Group unites a broad coalition of stakeholders, including companies, trade associations, academic researchers, NGOs, think tanks, and government representatives. Through targeted workstreams, we aim to support the policy and market transformations necessary to grow sustainable molecules globally—in line with international climate and energy dialogues at the International Energy Agency (IEA), Clean Energy Ministerial (CEM), UNFCCC (COP), and other meetings of world leaders and decisions makers like G7 and G20.

Each Molecule Group workstream creates space for structured, technical collaboration on key policy opportunities and eliminating market barriers. The goal is not only to support political ambition but also to define practical next steps for building trusted, credible, and scalable markets for sustainable fuels, chemicals, and materials.

The following pages outline Molecule Group's 2027 workstreams, which are designed to catalyze collective action, inform policymaking, and build a durable foundation for sustainable molecules in the global economy.

2027 Workstreams

Molecule Forum (International Workshop Series)

The Molecule Forum is Molecule Group's flagship global workshop series and the principal convening expression of its international community of practice. Held in connection with major international gatherings and strategically important regional policy moments, the Forum brings together industry leaders, policymakers, financiers, technical experts, and civil society to accelerate the deployment of sustainable fuels, chemicals, and materials.

Each Forum is designed as a curated working convening rather than a conventional conference. Regional editions create space for outward-facing engagement and trusted stakeholder discussion, connect to Molecule Group's broader workstreams, and retain flexibility to respond to emerging developments and stakeholder priorities.

Molecule Forum Deliverables:

- **Four (4) In-Person Molecule Forums**
 - Molecule Group will host four regional Forums during 2027. Final locations and timing will be confirmed against the international calendar, stakeholder priorities, and the moments offering the greatest opportunity for policy and market impact. Where practical, Forums will be held alongside meetings such as the Clean Energy Ministerial, UNFCCC COP, G20 activities, or other relevant gatherings.
 - Forum topics may range from broad cross-sector discussions to focused workshops on a single issue. Sessions may combine private stakeholder dialogue with engagement involving invited policymakers, international institutions, and other external participants.
- **Pre-Forum Planning Meetings**
 - Molecule Group will host virtual planning meetings in advance of each Forum to align stakeholders on priority topics, objectives, participants, and desired outcomes. Molecule Group will manage event logistics in-house while seeking stakeholder input on agenda development, regional partnerships, venue considerations, and follow-up opportunities.

Land-Use for Sustainable Transactions

The World Resources Institute's Greenhouse Gas Protocol (GHGP) has altered its approach to carbon accounting through the Land Sector and Removals Standard (LSRS), adopting assumptions that diverge from consensus biogenic carbon life cycle assessment principles. Once implemented, the LSRS could create a major hurdle for sustainable biofuels, e-fuels, chemicals, and products that use biogenic carbon as a feedstock or fuel.

Building on the 2026 ILUC Reconsidered workstream, Molecule Group is convening a cross-sector, multi-stakeholder Land-Use Coalition around a two-phase action plan: an immediate response to the adverse effects of LSRS implementation and a longer-term framework that supports mutual recognition of sustainable fuels and products through a Sustainable Fuels Passport.

Land-Use for Sustainable Transactions Deliverables:

Phase I: Accelerate an immediate and effective cross-sectoral response to the LSRS.

- **Document areas of global industry consensus** with respect to best practices in the quantification of fuel and chemical sustainability using life cycle assessment (LCA), including their climate benefits;
- **Specify issues within the LSRS and the likely impact** it will have on all bio-based and bio-adjacent industry including food and beverage, textiles and fashion, sustainable fuels and chemicals, and pulp and paper;
- **Communicate these issues and stakeholder recommendations** to governments and international organizations such that they can assist in drawing attention to the detrimental impacts resulting from the adoption of the counter-productive GHGP standards. International organizations shall include the Clean Energy Ministerial, International Energy Agency, International Civil Aviation Organization, International Organization for Standardization, and the International Maritime Organization, among others.

Phase II: Develop a framework and criteria for a “sustainable fuels passport”, based on scientific LCA principles, that supports interoperability required for international trade.

- **Map the sectors impacted by the LSRS**, actively engaging sectors and stakeholders unfamiliar with the GHGP LSRS and its impending impacts;
- **Host a series of critical stakeholder dialogs**, crossing borders and sectors - including liquid biofuels, biogases, low-emissions hydrogen and hydrogen-based fuels, agriculture, forestry, chemicals, materials and products.
- **Identify areas of global industry consensus** with respect to best practices in the quantification of fuel sustainability using life cycle accounting (LCA);
- **Develop consensus for the framework of a sustainable fuels passport** that supports the mutual recognition of sustainable fuels, products, chemicals and materials as a minimum standard for presumptive global recognition to facilitate interoperable carbon accounting across regions and jurisdictions;

Impact Accounting

The Impact Accounting workstream seeks to ensure that the full life cycle GHG benefits of sustainable fuels, chemicals, and materials are accurately recognized wherever climate performance informs policy, procurement, investment, reporting, or market participation.

The workstream addresses regulatory and sectoral accounting methods, life cycle assessment methodologies, procurement systems, international initiatives, and corporate GHG accounting and target-setting frameworks, including the GHG Protocol and the Science Based Targets initiative. It also covers the accounting and policy conditions needed for credible market-based procurement and chain-of-custody systems.

Building on the 2026 Impact Accounting Framework, the 2027 workstream will maintain the Framework as a central asset while expanding comparative analysis, cross-workstream implementation, standards engagement, and international collaboration.

Impact Accounting Deliverables:

- **Voluntary Market Standards Advocacy:** Coordinate stakeholder participation in WRI/GHG Protocol, SBTi, Actions and Market Instruments, Let Green Gas Count, and other relevant standards processes.
- **Maintain and Update the Impact Accounting Framework:** Promote and revise the Framework in response to standards developments, implementation experience, and stakeholder needs.
- **Global Life Cycle Accounting Comparison:** Develop a concise white paper comparing major global LCA methodologies and applied accounting frameworks, explaining material differences and gaps affecting recognition of life cycle GHG benefits.
- **Carbon Accounting Passport:** Provide Impact Accounting expertise to the joint Carbon Accounting Passport project and determine how life cycle carbon information and supporting documentation can be represented across market and accounting contexts.
- **International Collaboration:** Expand technical collaboration with the Clean Energy Ministerial's Future Fuels work and other relevant international bodies.
- **Monthly Stakeholder Meetings:** Conduct structured, topic-driven virtual meetings led by Molecule Group and informed by workstream members.

Indicative 2027 Milestones:

- **Q1 2027:** Confirm stakeholder priorities; determine work to be conducted on Impact Accounting Framework and annual standards-engagement; scope the global LCA comparison and Impact Accounting contribution to the Carbon Accounting Passport.
- **Q2 – Q3 2027:** Draft the global LCA comparison; advance Framework promotion and maintenance; develop stakeholder positions and comments as relevant; and expand international technical collaboration.

- **Q4 2027 and ongoing:** Publish and promote the global LCA comparison; update the Framework as warranted; support Carbon Accounting Passport development; and identify additional activities with stakeholders.

Chemicals & Materials

As demand grows for climate-aligned alternatives to fossil-based chemicals and materials throughout the economy, this workstream focuses on unlocking the full potential of bio-based, synthetic, and hydrogen-derived products in non-fuel applications. From bioplastics to recycled carbon content, e-chemicals, and advanced synthetic materials, this sector presents unique challenges and opportunities distinct from energy production. The Chemicals & Materials workstream will examine sustainability criteria, market access, and lifecycle analysis methodologies tailored to these applications, with an emphasis on enabling policy recognition and trade. It will also explore how evolving regulations—such as product carbon disclosures, circular economy policies, and extended producer responsibility—can support innovation while ensuring environmental integrity. The aim is to create a supportive international policy environment that catalyzes sustainable chemicals and materials markets in parallel with sustainable fuels.

Chemicals & Materials Deliverables:

Molecule Group is working to launch the Chemicals & Materials workstream in 2027 and remains open to stakeholder feedback regarding priority topics. The workstream will focus broadly on catalyzing development and market access for sustainable chemicals & materials, including detailed work surrounding existing LCA and policy frameworks, as well as extended producer responsibility (EPR) rules.

Transatlantic Market Connectivity Alliance

The Transatlantic Market Connectivity Alliance (TMCA) builds on several years of engagement with the U.S. Department of Energy, Office of the United States Trade Representative, and the European Commission to establish a practical connection between third-country fuel supply chains and the European Union's Union Database for Biofuels, beginning with the United States.

The Alliance's current focus is the U.S.-EU Alternative Fuels Export Framework (AFEf), an industry-led approach intended to enable U.S.-produced biomethane, e-methane, and derivative fuels to satisfy relevant UDB, Renewable Energy Directive, and FuelEU Maritime requirements with minimal U.S. administrative involvement. A functional connection would support credible traceability, guard against double-claiming and fraud, and open commercially meaningful pathways to EU markets.

U.S. products will remain the primary focus in 2027. As stakeholder interest warrants, the Alliance may also evaluate pathways involving Canada, Brazil, or other third countries.

Transatlantic Market Connectivity Alliance Deliverables:

- **Convene the Alliance:** Facilitate monthly working group meetings to share UDB developments, align priorities and external engagement, refine common materials, and assign follow-up actions.
- **Advance the AFEF and Support U.S.-EU Engagement:** Maintain the AFEF as the basis for seeking a clear U.S. government position and a pragmatic pathway acceptable to the European Commission; coordinate stakeholder input; and support meetings with U.S. agencies, DG-ENER, and other Commission services.
- **Represent the Alliance and Assess Additional Pathways:** Conduct meetings and follow-up on behalf of the TMCA when full participation is not practical, report back to stakeholders, and evaluate additional third-country opportunities.

Indicative 2027 Milestones:

- **Q1 2027:** Confirm priorities, update the AFEF as needed, and establish the annual engagement plan.
- **Q2-Q4 2027:** Support U.S.-EU engagement, technical review, and follow-up toward an agreed connection pathway, including meetings around key in-person events where possible.
- **Ongoing:** Meet monthly, monitor UDB implementation, represent the TMCA as needed, expand the working group, and evaluate third-country opportunities.

Stakeholder Categories & Engagement

Workstream Leader (\$30K)

Take a leadership role in guiding a specific workstream—help define deliverables, drive Stakeholder engagement, and shape outcomes:

- Anchor sponsor of workstream
- Actively participate in all workstream meetings
- Provides strategic guidance and final review of major deliverables
- Acknowledgment on public materials for workstream
- Seat on Molecule Group Executive Committee
 - Bi-monthly workstream discussion and status update
 - Provide feedback on 2027 Molecule Forum activities and workstreams
 - Acknowledgement as part of Executive Committee

Workstream Sponsor (\$10K)

Provide financial support and actively participate in shaping the direction and outcomes of a specific workstream:

- Enabling sponsor of workstream
- Actively participate in all workstream meetings
- Acknowledgment on public materials for workstream

Executive Committee Co-Chair (\$100K)

Provide strategic feedback across all workstreams, receive regular status updates, and help guide Molecule Group's advocacy, forums, and international engagement:

- Workstream Leader for all (4) four Molecule Group workstreams
- Co-Chair Molecule Group Executive Committee
 - Bi-monthly workstream discussion and status update
 - Provide feedback on 2027 Molecule Forum activities and workstreams
 - Acknowledgement as part of Executive Committee

Strategic Partner (contributions encouraged, no minimum required)

Demonstrate mutual support, alignment in values, thought partnership, and a joint commitment to advancing sustainable molecules as part of the global Stakeholder community.

Stakeholder Category Matrix

	Stakeholder Category	Cost (USD)	Open Policy Update (Quarterly)	Forum Co-Chair (Region)	Chosen Working Group Meeting (Monthly)	Executive Committee Meeting (Bi-Monthly)	Executive Committee Co-Chair
	Executive Committee Co-Chair	\$100,000					
Molecule Forum	Forum Leader	\$30,000					
	Forum Sponsor	\$10,000					
Workstreams	Workstream Leader	\$30,000					
	Workstream Sponsor	\$10,000					
	Strategic Partner	Strategic Partner Agreement					

2027 Terms of Reference

Organizations with a commitment to advancing sustainable fuels, chemicals, and materials globally are invited to become Molecule Group Stakeholders.

Molecule Group Stakeholders commit to:

- Engage in the following Molecule Group workstream(s) for 2027. See "2027 Workstreams" for additional information:
 - ___ Molecule Forum
 - ___ Land-Use for Sustainable Transactions
 - ___ Impact Accounting
 - ___ Chemicals & Materials
 - ___ Transatlantic Market Connectivity Alliance
 - ___ General (Strategic Partner)
- Support your chosen workstream(s) as a Stakeholder in the following capacity. See "Stakeholder Categories & Engagement" for additional information:
 - ___ Executive Committee Co-Chair (USD \$100K)
 - ___ Workstream Leader (USD \$30K per); Please specify: _____
 - ___ Workstream Sponsor (USD \$10K per); Please specify: _____
 - ___ Forum Leader (USD \$30K per); Please specify: _____
 - ___ Forum Sponsor (USD \$10K per); Please specify: _____
 - ___ Strategic Partner (Contributions Encouraged; No Minimum Required)
- Designate one (1) in-house representative as a primary contact for engagement:
 - Representative Name: _____
 - Email address: _____
 - Phone number: _____
- Consult on timely and appropriate content for the Molecule Forum and workshops, when such event is hosted in your geographic region.
- Share data and research that helps strengthen the evidence base for sustainable fuels, chemicals, and materials.
- Provide your logo and agree to be listed as a Molecule Group Stakeholder in written and digital materials.

Count us in! We agree to the Roles and Responsibilities outlined here-in. Please include the below named company as a Molecule Group Stakeholder.

Your Company Name: _____

Authorized Representative Name: _____

Authorized Representative Signature: _____ Date: _____