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Circular Plastics Service

Moving to a Circular Economy

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The plastics ecosystem is firmly on a transition where companies design out waste, keep resources in use as long as possible, extract the maximum value while in use, then recover and regenerate valuable products and materials at the end of life. Moreover, this transition is taking place within the broader structural shifts of energy transition as fuels demand peaks, raising the plastics demand risk profile and bringing forward challenges to balance emissions with circular plastics end of life goals.

The plastics transition to circularity raises critical questions that must be addressed through common goals and standards, with supporting data to determine the best path forward.

These key questions include:

How do companies understand and sort through the complex interplay between production and recycling economics, emissions, societal needs, and resources?

To what degree and at what pace will post-consumer recycling infrastructure and technology scale and accelerate to meet targets?

What is the potential for any unintended consequences of regulations and policies along the entire value chain?

How will economics for circularity be developed; and what role will policy play?

How do companies define their competitive position in a circular environment?

Circular Plastics Service

A comprehensive, scenario-based evaluation of how the plastics value chain is expected to transition from a linear to a circular economy. The service addresses implications of carbon intensity and the impact on future capital investments within the context of energy transition and carbon valuation, amid changing policy and regulations.

This service quantifies the magnitude and timing of substantial market shifts, identifies key regulatory and societal risks, and provides ongoing tracking of fast-moving developments. Clients will understand the potential impact of costs, investment and emissions of the linear and circular plastics models.

Gain a Tactical Advantage and Reformulate Your Company Strategy

Attain essential insight and analytics for the tactical oversight of your business as well as the reformulation of your company strategy around the transition from linear to circular value chains:

- Track government regulations, policies and targets established by brand owners, industry alliances, NGOs and ESG investors and understand what this means for your business in the countries and regions where you have operations
- Prepare a plan to mitigate against major sustainability-driven shifts in downstream plastics consumption
- Determine which parts of the company's product offerings are most vulnerable to reductions in demand for virgin (non-recycled) plastic.
- Assess opportunities for investment collaboration in circularity
- Assess the relative value propositions of competing recycle technologies and anticipate where investments will be directed to scale infrastructure.
- Anticipate the timing and magnitude of the impact to feedstocks that will develop during the plastics transition to circularity.

Benefits of the Service	Application by Customers
Anticipate future recycling volumes under different scenarios	• Understand the evolving risk of resins, monomers, and feedstocks being replaced by recycle • Assess opportunities for investment collaboration in circularity e.g. mechanical recycling
Quantify the timing and magnitude of impact on feedstock markets	• See how changing plastics consumption may impact feedstock requirements into chemicals • Prepare a plan to mitigate against major shifts in downstream consumption
Understand different regulatory regimes and track and anticipate changes globally	• See how regulations are likely to impact the plastics value chain and recycle rates • Understand which sectors of the value chain are most likely to need additional support from government and associations
Compare competing mechanical /chemical process technologies and understand which may prevail	• Understand how they will fit into the value chain • Determine which recycling technology to invest in
Evaluate the level of societal demand in different markets	• Avoid being surprised by evolving consumer preferences • Develop actionable policies for plastics use and waste to manage consumer perceptions • See how consumer/system behavior is expected to change in the long-term
Technology and technology trends	• See when and where new chemical and mechanical recycling facilities are being built and who is building them
Understand which chemical companies might prevail	• Find out where new investments are likely in the future across the plastics value chain • See which companies are most likely to be winners or losers
Calculate emissions and unit costs based on different infrastructure types	• See how unit costs compare across asset types and infrastructure types

Circular Plastics Service

Service Insight and Analytics		
Service Categories	**Description**	**Frequency**
Summary Reports, Client Interaction, One-off Reports	A summary report summarizing key developments from all modules across the circular plastics landscape focusing on “What has Changed” during prior period as well as periodic podcasts and focus pieces.	Quarterly
Regulatory I Policy I ESG	A comprehensive, global policy database of Plastics Regulatory, Policy and ESG activity with accompanying insight	Monthly Updates
Demand Risk	Scenario demand modeling, visualization and insight for virgin and mechanically recycled plastics with regional and end use segmentation	Updated twice per year
Waste Collection and Disposition	Scenario modeling and insight for collection and disposition of plastics waste via landfill, incineration, mechanical recycling and chemical recycling. Analyses of plastics waste supply including categories, volumes, specifications & quality requirements.	Updated twice per year
Plastics Recycling Technology	Technology scanning and scenario-based economic modeling for recycling technologies. Database of recyclers capacities, alliances, inputs & outputs, facilities commercialization progress.	Realtime database updates with scenario updates twice per year
Economic and Environmental Assessment	Scenario-based modeling and insight to evaluate the economics and emissions for circular plastics production compared to incumbent, fossil-based linear model for producing plastics.	Updated twice per year

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