

At PLASTICS, we're committed to keeping you informed about the latest trends and innovations related to the plastics supply chain. As the voice of the plastics industry, we bring together the entire supply chain to advocate for practical solutions and provide valuable resources to help businesses excel in the market.

Global plastic demand is estimated at 470MTpa in 2022. For perspective, the 100Mbpd global oil market equates to around 5bn tons per year of crude oil, showing that plastics comprise almost 10% of total global oil demand. Our outlook in the energy transition sees increasing demand for polymers, most likely to 1,000MTpa by 2050. Many polymers are crucial inputs for new energies.

PRESS RELEASE: Kuala Lumpur, 26 June 2019 - PETRONAS Chemicals Group (PCG), the petrochemical arm of PETRONAS, yesterday signed a Memorandum of Understanding (MoU) with PLASTIC ENERGY Ltd, a chemical recycling company, to collaborate in addressing plastic waste that cannot be recycled by conventional means in Malaysia. The strategic collaboration ...

The recycled plastic used in the snappable pots is certified by the ISCC, a global sustainability certification system that supports the transition to a circular economy. The 39% recycled plastic they contain was validated using the "mass balance approach" endorsed by ISCC, which makes it possible to track the amount and sustainability characteristics of ...

However, the plastics industry needs to catch up to the energy industry in order to achieve a plastic circular economy. The plastics industry needs to make a number of changes, including:

The plastics industry is a mature industry, which means that its growth will track economic growth. What's your outlook for Saudi Arabia and the GCC this year and the next year? The IMF's latest projections call for global economic output to ...

Find the latest news and updates from Plastic Energy and the chemical recycling industry as we accelerate the global transition to a circular economy. ... Heinz and Tesco partner with Plastic Energy, SABIC, and Berry Global to launch sustainable packaging innovation made with post-consumer recycled soft plastics ... The technical storage or ...

The Carbon Capture, Transport, and Storage Supply Chain Deep Dive Assessment finds that developing carbon capture and storage (CCS)--a suite of interconnected technologies that can be used to achieve deep decarbonization--poses no significant supply chain risk and will support the U.S. government in achieving its net-zero goals.

The U.S. Plastics Pact has just rolled out Roadmap 2.0, an ambitious new plan designed to overhaul how companies handle plastics in their packaging and across the plastic supply chain. Building on the groundwork



laid by the initial Roadmap to 2025, this updated strategy sets even higher goals for reducing plastic waste and promoting a circular economy.

Plastic Energy offers its customers a sustainable and innovative solution to the global plastic waste problem. ... supporting industry, governments and organisations in a shared mission to prevent plastic pollution. ... The technical storage or access is strictly necessary for the legitimate purpose of enabling the use of a specific service ...

Under the background of the power system profoundly reforming, hydrogen energy from renewable energy, as an important carrier for constructing a clean, low-carbon, safe and efficient energy system, is a necessary way to realize the objectives of carbon peaking and carbon neutrality. As a strategic energy source, hydrogen plays a significant role in ...

We emphasize the significance of Waste-to-Energy (W2E) and Waste-to-Fuel (W2F) technologies, e.g., pyrolysis and gasification, for converting difficult-to-recycle plastic waste into a...

However, despite these achievements, there are many challenges and problems to be addressed. The electrocatalytic upcycling of plastic wastes typically involves alkaline or acidic pretreatment to enhance solubilization and promote interaction between the electrocatalysts and plastic waste.

This perspective describes recent strategies for the use of plastic waste as a sustainable, cheap and abundant feedstock in the production of new materials for electrochemical energy storage ...

Polyethylene terephthalate (PET) is widely used as a primary plastic packaging material in the global socio-economic system. However, research on the metabolic characteristics of the PET industry across different countries, particularly regarding the entire life cycle supply chain of PET, remains insufficient, significantly hindering progress in addressing plastic ...

The empirical findings and following discussions presented in this section are based on performed interviews of actors in the value chain shown in Fig. 2, reviewed documents and also direct observation in operation sites (where possible). This section is divided into the main material flows in automotive industry, i.e. metal and plastic.

thereby entering the human food chain14,15. As these plastics further degrade into nanoparticles, there is a potential risk that these nano- ... coupled with energy storage to achieve carbon ...

Energy and GHG impacts from imported plastic products are expected to be substantial for high-volume flows, such as PET fiber. In the near future, MFI will be expanded to include an option to model global supply chains, leaving a rigorous quantitative assessment of such impacts is left as future work.



Despite this, plastics also play a crucial and often overlooked role in advancing renewable energy technologies and promoting energy efficiency. This comprehensive exploration delves into the ...

However, it will depend on the proportions of the individual components of the plastic waste. If it is assumed that the 2.2 tonnes analysed contain only PE, the amount of energy recovered will be significantly higher than if the same amount of plastic waste contained mainly PVC.

The linear flow of plastic through the value chain is one of the primary current sources of CO 2 emissions and environmental pollution. A significant portion of plastic is used only once in products and packaging, with only a limited amount being reused or recycled (Dijkstra et al., 2020) Europe, 31% of all plastic waste is sent to landfill, while 39% is ...

The domestic plastics industry is responsible for roughly 2% of U.S. energy consumption and 3% of U.S. GHG emissions.2 Commodity plastic waste is particularly challenging to process, which allows it to easily build up in the environment and break down into microplastics. Under a business-as-usual scenario,

Special attention is given to emerging technologies such as pyrolysis, gasification, and waste-to-energy incineration, which offer promising avenues for converting plastic waste into valuable energy resources. This comprehensive review provides a valuable overview of the current state of handling plastic waste for energy generation.

In addition to Torlon PAI, PEEK has also performed successfully for years as a high-performance material for seals and critical components used in isolation, compression, storage, and distribution applications in the hydrogen supply chain. Key performance benefits behind the use of both materials include lighter weight and superior strength-to ...

A " very low density " form (VLDPE) with extensive short-chain branching is now used for plastic stretch wrap (replacing the original component of Saran Wrap) and in flexible tubing. ... they play essential roles in energy storage, signaling, ... Plastics recycling has become a major industry, greatly aided by enlightened trash management ...

With their advanced recycling unit in Geleen having reached the final stages of construction, chemical company Sabic and chemical recycler Plastic Energy have announced a new collaboration with German waste management company Siemer, a one-hundred-year-old family business, and environmental and waste disposal specialist Landbell for the sorting and ...

Plastic waste poses significant environmental challenges. Electrocatalytic upcycling of plastic waste represents a novel catalytic technology characterized by its mild operational conditions, ...

The potential for energy recovery from waste plastics. Detailed analysis of 2.2 tonnes of general plastic waste



on the environment. Plastics are essential in our economy and everyday life. However, plastic pollution is a global concern. To address this issue, the European Strategy for Plastics in a Circular Economy was adopted in January 2018.

Scientists from Nanyang Technological University, Singapore (NTU Singapore) have created a process that can upcycle most plastics into chemical ingredients useful for energy storage, using light ...

Researchers looking for an efficient way to upcycle waste plastics into something useful have seen the light. Scientists from Nanyang Technological University, Singapore (NTU Singapore) have created a process that can upcycle most plastics into chemical ingredients useful for energy storage, using light-emitting diodes (LEDs) and a commercially ...

Vecor Technologies focuses on providing innovative solutions in ceramics and renewable energy storage. Its ceramic products improve the performance of coatings, plastics, and other polymers while reducing manufacturers" costs and reducing supply chain risks.

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