

Supporting Information

A review of commercial plastic waste recycling into graphene material

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Table S1. Some typical organizations focus on recycling plastic and rubber materials into carbon materials and related products

Company	Country	Techniques	Output products
Cecilia https://www.ceciliaenergy.com/	USA	Modules system with zero CO ₂ resistance	<ul style="list-style-type: none"> - Performance carbon powder - Recycled polymer composites - Product inquiry form
Eco Carbon https://ecocarbons.org/	USA	N/A	<ul style="list-style-type: none"> - Activated carbon - Carbon molecular sieve - Synthetic graphite
Clariter https://clariter.com/	Luxembourg	<ul style="list-style-type: none"> - Thermal cracking - Hydro-refining - Distillation and unification 	Sustainable petrochemicals by upcycling plastic waste: high-value waxes, oils, and solvents
Enerkem https://enerkem.com/	Canada	<ul style="list-style-type: none"> - fluidized bed gasification vessel - 	biofuels and renewable chemicals.
Vow ASA https://www.vowasa.com/	Norway	Biogreen pyrolysis	convert plastic waste into fuel
Symius https://www.symius.com/	USA	In situ exfoliation method to fabricate a graphene-reinforced polymer matrix composite	graphene polymer composites
GrapheneGolden https://graphenegolden.com/	Kingdom of Saudi Arabia	N/A	converting plastic trash into high-quality graphene
EcoRub https://2dfab.com/	Sweden	N/A	graphene in recycled rubber materials
GOLeafe https://goleafe.com/	USA	N/A	extracts graphene oxide from organic materials, including waste tires
Gerdaugraphene https://www.gerdaugraphene.com/	Brazil	N/A	
Space Blue	UK	N/A	recycle tyre rubber to

The University of Manchester https://spaceblue.co.uk/			graphene
Universal Matter https://www.universalmatter.com/	USA	flash joule heating technology	convert diverse carbon feedstocks to graphene