



iQ Renew

Intelligent Australian Recycling

ABOUT IQ RENEW

iQ Renew will be one of the first companies in the world to combine physical and chemical recycling.

iQ Renew was initially formed by Licella, global pioneers in chemical recycling, and has since merged with Australian recycler Stop Waste, an owner and developer of Material Recovery Facilities (MRFs).

iQ Renew will deploy the Cat-HTR chemical recycling technology for End-of-Life Plastic in Australia, alongside expanding its physical recycling operations. iQ Renew Wood Waste will target woody waste from the commercial and industrial construction and demolition sectors.

VIEW OUR VIDEOS

[Cat-HTR Technology \(Chemical Recycling\)](#)

[iQ Renew Material Recovery Facility \(Physical Recycling\)](#)

Videos also available at:

www.iqrenew.com/videos/

CAT-HTR PARTNERS



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Local recycling solutions desperately needed

In January 2018 China effectively banned the importation of foreign recyclable material. Since this time, the waste market has changed dramatically. New local solutions are needed now to deal with the huge amounts of resources no longer able to be sold to China.

Only ~50% of Plastics can be physically recycled

In Australia, around half of all plastic waste produced is considered End-of-Life Plastic (meaning it is otherwise sent to landfill).

A circular solution for plastics

iQ Renew is uniquely placed to provide a true circular solution for plastics, being the first company in Australia to combine physical and chemical recycling of plastic. In doing so, iQ Renew is uniquely positioned to be able to recycle close to 100% of plastics.



The Cat-HTR chemical recycling platform - End-of-Life Plastics and C&D Wood Waste

The Cat-HTR platform chemically transforms a wide range of low value and waste feedstocks into high value products.

By creating oil from End-of-Life Plastic we are reducing our reliance on fossil oil, creating new products from waste and diverting plastic from landfill and oceans.

The oil can be refined in a conventional refinery to fuels, waxes and chemicals - including the chemicals used to produce new plastic.

iQ Renew Wood Recycling will target wood waste from the construction and demolition (C&D) sectors, significantly reducing waste and increasing value from bi-products of the commercial and industrial C&D sectors.



Glass Innovation - A Sustainable Solution for Glass

iQ Renew's innovation is creating a truly circular solution for glass, as local solutions for glass collected kerbside are desperately needed. By crushing glass into a recycled sand product, iQ Renew has created a virtual quarry, reducing our reliance on natural resources and creating markets for recovered products.

 iQ Renew™ Virtual Quarry



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Physical Recycling



PET / HDPE Plastic



Optical sort technology separates out PET and HDPE.

Secondary processing adds value.



Plastic pellets & flake for manufacturing



Glass

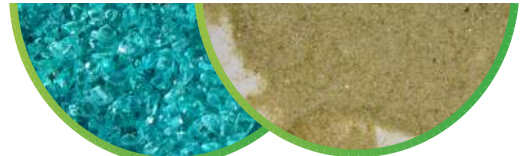


iQ Renew™ Virtual Quarry

Optically sorted (higher quality) & crushed (sand).



Cullet to remake new bottles & recycled glass sand



Paper



Additional sorting for higher quality.



Feedstock for recycled paper



Chemical Recycling



End-of-Life Plastic



End-of-Life Plastic, otherwise sent to landfill, chemically transformed using the Cat-HTR platform back into oil.



Fuels, chemicals & new plastics



C&D wood waste



Wood waste from the commercial and industrial construction and demolition (C&D) industry - chemically transformed using the Cat-HTR platform into biocrude.



Biofuels & biochemicals

