



Advanced Recycling Victoria – Altona

Community Information Session



March 2023

Who we are

- Advanced Recycling Victoria (ARV) are part of Licella, an Australian technology development company.
- Licella have a process to chemically recycle End-of-Life (waste) plastics.
- Licella have spent 15 years developing our technology and have a demonstration facility in NSW.
- ARV is bringing Licella's Australian advanced recycling technology to Victoria.











The problem we are helping to solve

The size of the plastic problem in Australia:

3.4 million tonnes of plastic consumed during 2019-20

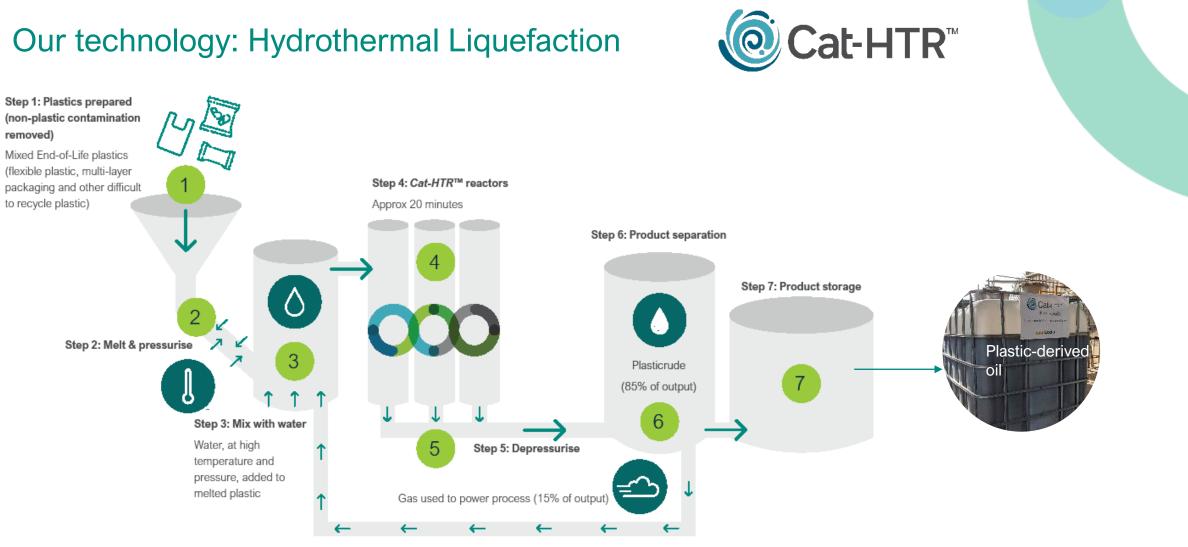
2.5 million tonnes reaching their End-of-Life with

13% recovered.¹



We will not reach our National Waste Targets for plastic without advanced recycling.







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Advanced manufacturing + Circular Economy

A first of its kind advanced recycling facility enabling a Circular Economy for plastic

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Our proposed advanced recycling plant would:

⊘ of End of Life plastics with the potential to expand to **120,000 tonnes per annum**

Producing 17,000 tonnes (increasing to over **100,000 tonnes**) per annum of oil that could be used back in the local plastic supply chain

Have the potential to produce over 15,000
 ⊘ tonnes (increasing to almost 100,000 tonnes) per annum of recycled plastics

Significant job creation and economic benefits from proposed plant:

- **31 long term jobs** for plant operation and project development,
- S7 indirect jobs in long term across the supply chain.

Modular design allows for easy expansion, meaning over **200 people could be employed over the next 10 years** and the facility contributing over \$100 million a year to the local economy.

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	A new vision for our industrial areas	
	Supportive industry networks	
	A resilient economy	
	Location of choice for new industry	
	Prosperous	

Project Timeline

- First time food-grade recycled packaging made in Australia
- Proved it is possible to make recycled packaging content locally
- Announced March 2021



Feasibility study

- Led by Licella
- Demonstrated significant economic and environmental benefits from a local plastics circular economy

The opportunity for a local circular econom

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- Catalyst for ARV
- Published Nov 2021

Community engagement

- Licella engaged Capire
- Consulting Group in 2021
- 2021: 3 focus groups (HBCC & Inner West Air Quality Network)
- 2021-2022: 4 community information sessions (virtual)
- 2023: In-person community sessions
- Ongoing commitment to listen, inform and support.

Approvals

- Development Licence from EPA Victoria granted in December 2022.
- The project meets the HBCC's SUZ3 land zoning requirements.
- Currently undergoing site planning permit with HBCC.

Build and operate

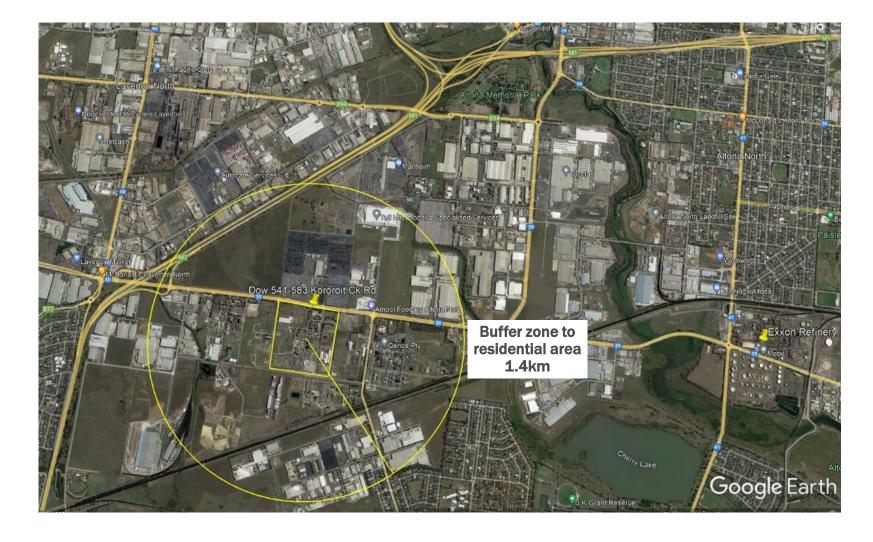
Approx 18 months construction timeline (estimate second half 2024)
Stage 1: 20K T per annual processing capacity.





Location of proposed facility: 541-583 Kororoit Ck Rd, Altona

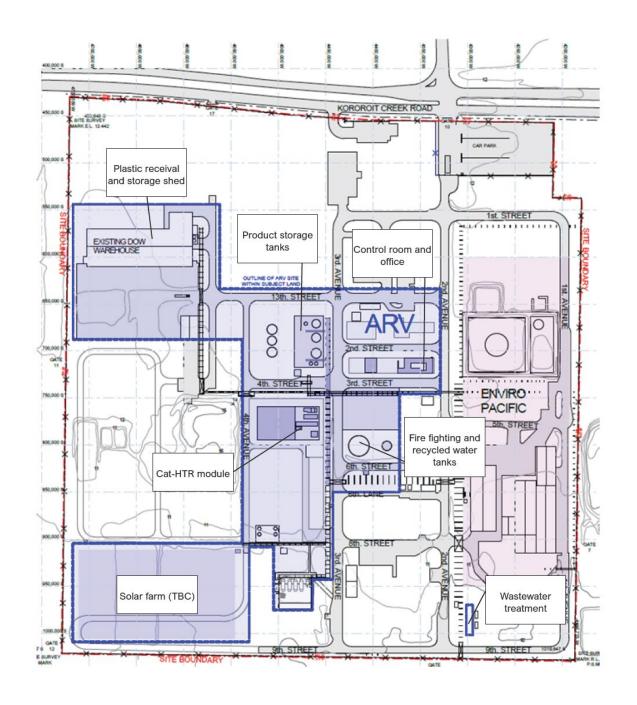
• The area is zoned for petrochemical use (SUZ 3)





Proposed site plan

- Cat-HTR™ module 25m x 35m
- Front End Bldg 25m x 36m
- Plastics Prep Bldg 100m x 125m

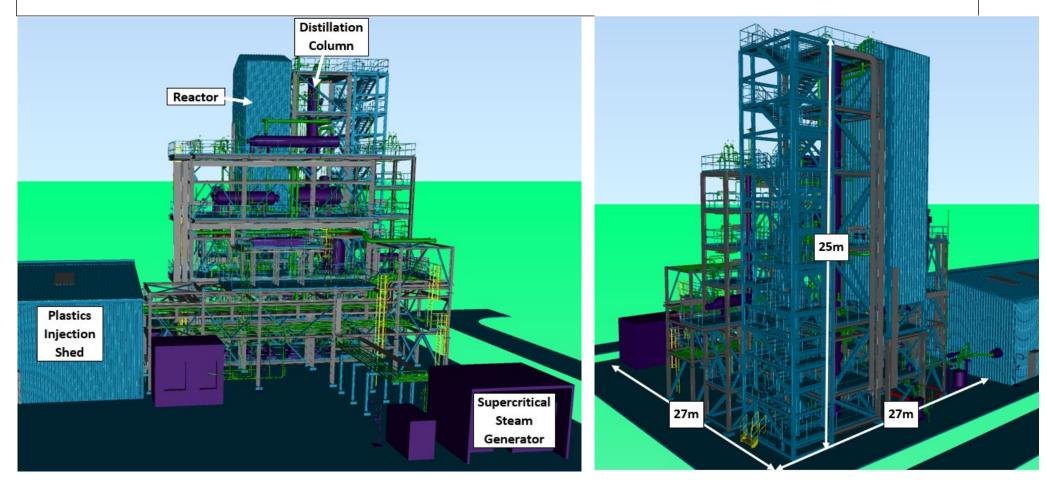




Our proposed advanced recycling facility



- Cat-HTR™ module.
- The location is 340m south of Kororoit Creek Road.





About us



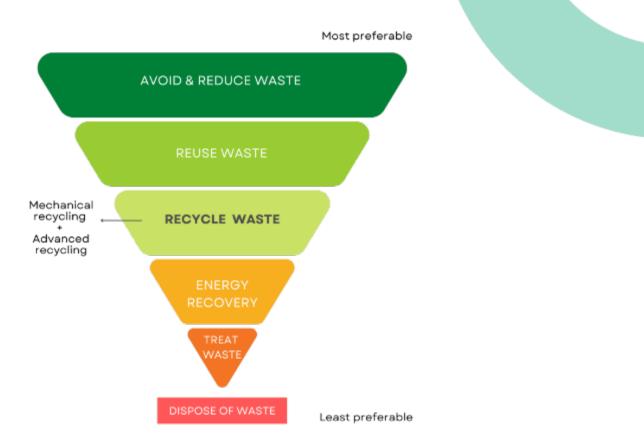
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Proposed Altona advanced recycling facility

Issues raised by the community

- Air quality impacts
- Road congestion & truck movements
- Storage of plastic on site
- Competing with waste to energy



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Air Emissions Modelling

Substance	Assessment criteria		Facility emission only		Background only		Facility with background	
	Averaging	GLC	Modelled	% of	Recorded	% of	Modelled	% of
	period	(ppm)	value (ppm)	criterion	value (ppm)	criterion	value (ppm)	criterion
NOx	1 hour	0.12	0.0056	4.6%	0.052	43%	0.055	45%
	1 Year	0.03	0.00042	1.4%	.010	34%	0.011	36%
SO ₂	1 hour	0.2	0.00044	0.22%	0.062	31%	0.062	31%
	1 day	0.08	0.00018	0.23%	0.019	24%	0.019	24%
	1 year	0.02	0.000041	0.21%	.0026	13%	.0027	13%
NH ₃	1 hour	4.6	0.0015	0.03%	-	-	-	-
	1 day	1.7	0.00035	0.02%	-	-	-	-
	1 year	0.1	0.00009	0.09%	-	-	-	-

 Table 4 - Modelled maximum GLC showing maximum level for any gridded receptor¹³.
 before flue gas scrubbing