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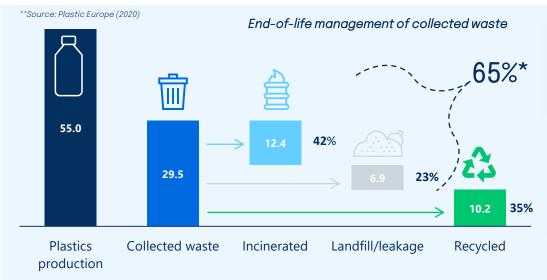
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Advanced recycling: key to unlock plastic waste circularity

European plastics end-of-life management in 2020 $(Mt)^{**}$



* 19 million tons per year of plastic waste unrecycled in the EU





Pryme One: starting up installation attracts ample waste supply





Pryme's technology flexibly handles varied polyolefin & contamination contents.

Pryme starting up has attracted firm interest from established waste processors.

Pryme focused on a pragmatic approach to plastic waste sourcing:

- Pryme integrating with existing waste systems avoids the need for extra investments ensuring a reliable and available feedstock supply.
- RDF pellet producers efficiently convert post-consumer & industrial plastic waste bales.
- This includes shredding, gravity separation, dust & metal extraction, drying & densification.
- The output meets density/moisture standards without solids, safeguarding equipment's.
- The quality of the input bales determines the final polyolefin content.
- Europe has an adequate supply of baled material meeting Pryme's specifications.

Pryme is currently working with more than 8 waste suppliers.

 These feedstock suppliers provide varying qualities of feedstock in order for Pryme to determine the optimal feedstock blend/mix.



Pryme working with RDF producers aligns with our IMPACT purpose of diverting plastic waste from incineration while reducing emissions.



^{*} RDF: Refuse-Derived Fuel

Pryme One: up to 40k tons plastic waste through one reactor



Plastic Waste



Melted Plastic Waste



Thermochemical Cracking



Plastic Pyrolysis Oil - PPO

PW bulk reception & storage

Densified or fluff PE - PP waste Up to 350 tons storage capacity Unloading & transfer of 1 truck / hour





Industry proven extrusion

5 tons per hour installed capacity Degassing of moisture & volatiles From 20°C to 350°C in 30 seconds





Exclusive reactor technology

5 tons per hour on a single reactor 20 m3 oxygen-free vessel Electrically heated above 600°C





Two step condensation unit

Streamlined & versatile process Non-condensable management PPO batch storage unit







PRYME'S TECHNOLOGY EDGE:

High-capacity reactor with precision heat controls

Key differentiators

- \checkmark Delivers up to 7x the capacity of competitor reactors in use.
- \checkmark Superior core temperatures compared to existing thermal technologies.
- ✓ Improved temperature control for optimized thermochemical cracking.
- ✓ Yields plastic pyrolysis oil with increased quality consistency.
- \checkmark Dry odourless, free flowing ash residue evidencing complete reaction.

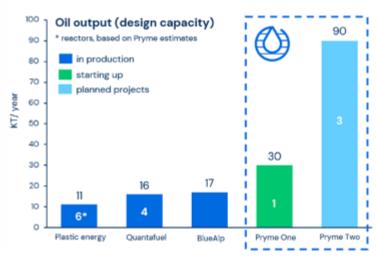


Left: Pilot Plant – mini Pryme, in operations since Q1-2023.

Right: Ash residue from Pryme One



40k tons plastic waste expected through one reactor





Strong fundamentals for Pryme and advanced recycling



- ✓ Pryme focuses on efficiently converting plastic waste into PPO, prioritising volume & scale.
- ✓ *Upgraders / petrochemicals* demonstrate flexible PPO intake specifications to supply circular products to consumers.
- ✓ Pryme successfully secured, for its first two plants, three PPO sales contracts with prominent downstream players.
- ✓ Market Projections indicate that demand for pyrolysis oil will exceed supply for the foreseeable future strongly supported by EU regulations mandating all packaging material to be recyclable by 2030.
- ✓ The entire supply chain is gearing up for the increased demand from advanced recycling; feedstock suppliers, petrochemicals, chemicals and brand owners.



Shells PPO upgrading unit starting up in 2024 and is partly supplied by Pryme One.



Pryme One: Production Status





- Pryme's focus regarding the start of production at Pryme One has been on verifying the technology and
 improving the production process. The Pryme One installation technology is based on proven technology blocks
 although the application for the purpose of processing plastic waste is new.
- As Pryme One is a pioneering installation, the hot commissioning of the plant has highlighted many areas for improvement. Such improvements have been implemented during the period following the production of first oil.
- The optimization of the processes and installation has been the primary focus rather than producing the highest
 possible volume of pyrolysis oil. Pryme One is Pryme's first installation serves as a basis for Pryme's future plants.
 Thus, the focus on optimizing the processes.
- Since the production of first oil at Pryme One, almost 20 production runs at varying lengths and production rates have taken place. During these runs around 170 metric tons of pyrolysis oil have been produced. The majority of this oil has been sold to customers. More than 250 tons of plastic waste has been processed.
- The Pryme One production process is based on the feeding from 2 extruders into a single reactor. To date, all the production has taken place by utilizing one extruder only. The start-up of the second extruder is scheduled for September 2024. When running both extruders simultaneously Pryme expects to be able to approach the 5 tons per hour nameplate capacity for the reactor. The highest production rate to date has been around 2.7 tons per hour through a single reactor, most likely the highest ever production rate for a European production facility.
- The various production runs have utilized many qualities and sources of feedstock providing valuable learnings to Pryme.
- Multiple process improvements have been implemented since the first oil was produced. Most of these
 improvements are related to optimizing the reliability of the installation for longer production runs.
- The ambition for Pryme One is to achieve stable production levels in Q4 2024.



Pryme: expected plant economics

Expected Plant Economics				
	Unit	Pryme One 2024**	Pryme One at nameplate capacity	Pryme Two at nameplate capacity
Annual capacity	MT* of pyrolysis oil	12.000	30.000	90.000
Selling price pyrolysis oil	€/MT of pyrolysis oil	1.200	1.20 0	1.200
Cost of plastic waste feedstock (delivered)	€/MT of pyrolysis oil	300	300	300
Energy Cost	€/MT of pyrolysis oil	130	130	90
Other plant OPEX	€/MT of pyrolysis oil	500	220	150
Plant EBITDA	€/MT of pyrolysis oil	270	550	660
Annualized Plant EBITDA @ annual capacity	<u>€ Million</u>	<u>3,2</u>	<u>16,5</u>	<u>59,4</u>
Approximate replacement investment	€ Million	40,0	40 ,0	0, 110
Annualized Plant ROI	<u>% p.a.</u>	N/A	41%	54%
Memo: Annual non-plant related overhead	€ Million	5	6	12

^{*} MT = Metric Tons

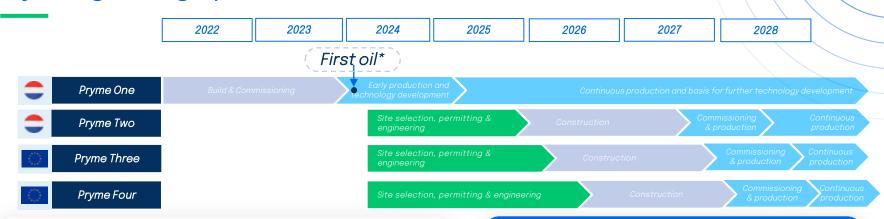


Current market prices, already signed oil supply agreements, advanced technology and large-scale efficient operations provide for attractive plant economics for Pryme.



^{**} Pryme One in 2024 represents a ramp up year. Pryme anticipates the ramp up process to continue into 2025. The figures for "Pryme One 2024" represent run rate figures and may not reflect actual FY 2024 performance.

Pryme: gearing up for an ambitious rollout



- Pryme One offers valuable insights for our next commercial scale plants. It will serve as the technical basis for Pryme's future plants
- Pryme has concluded a pre-feasibility study of potential future plant sites. The number of sites have been narrowed down to 6 sites.
- The number of sites will be narrowed down to 3 sites in the next months followed by commercial analyses and permit applications.
- In parallel, work is largely completed for a BOD (basis of design) for Pryme's future plants. This will be followed by more detailed engineering activities.
- The speed of the rollout of new plants will be determined by access to funding, finalizing terms for each site and obtained permits which all are prerequisites for the start of construction.
- In order to compress lead-times, some of the workstreams will be overlapping, for example by constructing skid plant modules.

Pryme aims to start production at Pryme's next plant in the 2027:

 Pryme intends to finalize feasibility studies, obtain permits and conclude project approvals for up to three plants within the next 12-18 months, pending successful funding being obtained.

* First production of PPO realized in January 2024.

Strong investment case backed by measurable circularity impact



- ✓ **Dedicated & committed team** of industry veterans pioneering a new value chain
- ✓ Scalable & flexible industrial processes combining existing proven technologies
- ✓ Attractive growth potential through increasing needs for circular plastic demand
- ✓ Regulatory support bolstering the adaptation of circularity for plastics
- ✓ Europe's largest capacity advanced chemical recycling plant
- ✓ Backed by significant shareholders: LyondellBasell, Taranis, Invest NL & Infinity Recycling
- ✓ First oil produced early 2024 followed by successful limited production runs with 170 metric tons of pyrolysis oil produced to date.
- ✓ Attractive off-take contracts in place
- ✓ Clear and ambitious growth strategy focused on value creation



Pryme expects to deliver above average returns through large-scale plants by leveraging purpose developed established technology.

