



A Canadian company
with an innovative
solution to recycling
difficult to recycle
materials

PolyMass: a new building material

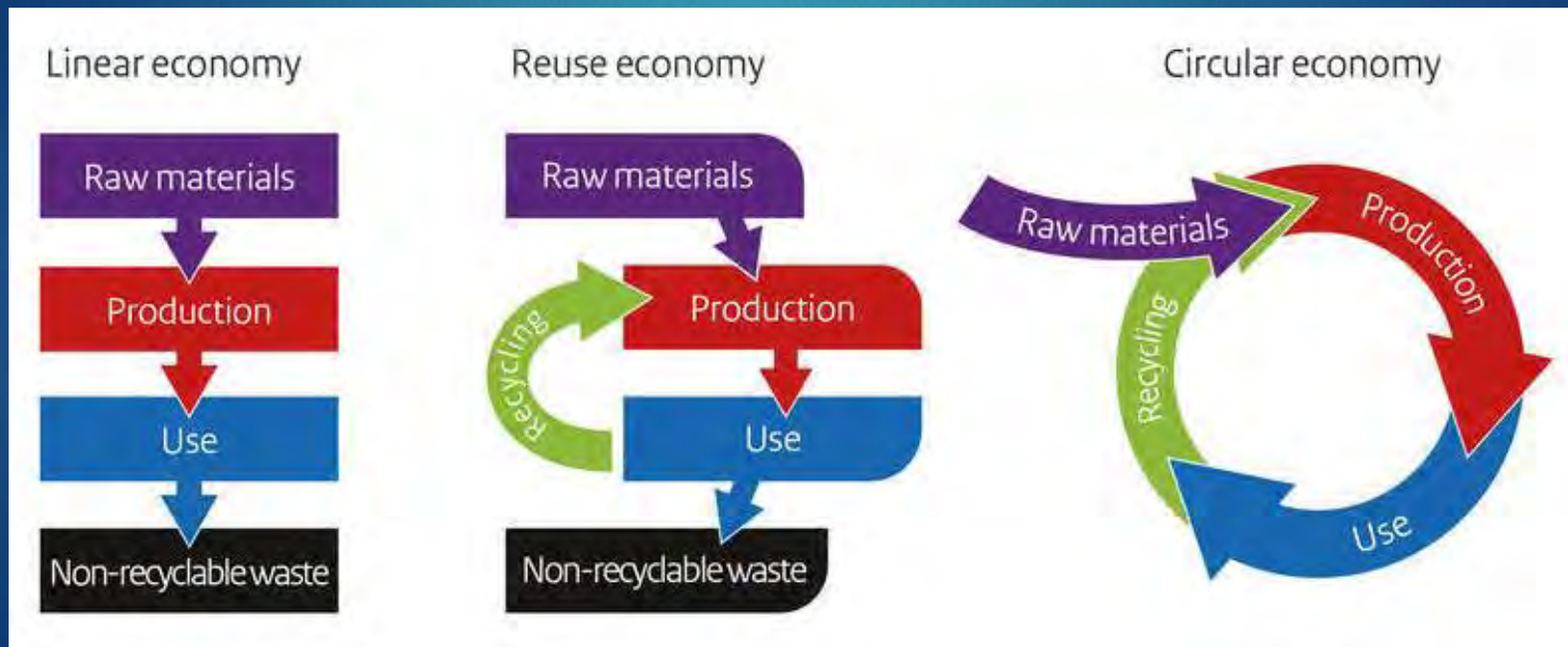
ReGen has developed an innovative composite (PolyMass); made from reclaimed waste material and a proprietary organic binding agent. The product is a building material that can be formed into any shape, is produced at a low cost; the material will work as a concrete and wood substitute.

- ▶ New building material can be formed into virtually any shape.
- ▶ As strong as concrete, less expensive than lumber
- ▶ Energy Solution; with altered formula we have a low cost cleaner burning synthetic coal (Akin to Pyrolysis)



The ReGen Approach

Create a circular economy where all grades of plastics along with wood, paper and fiber waste are recycled to create a composite product. At the end of the composites life cycle it can simply be recycled over again!

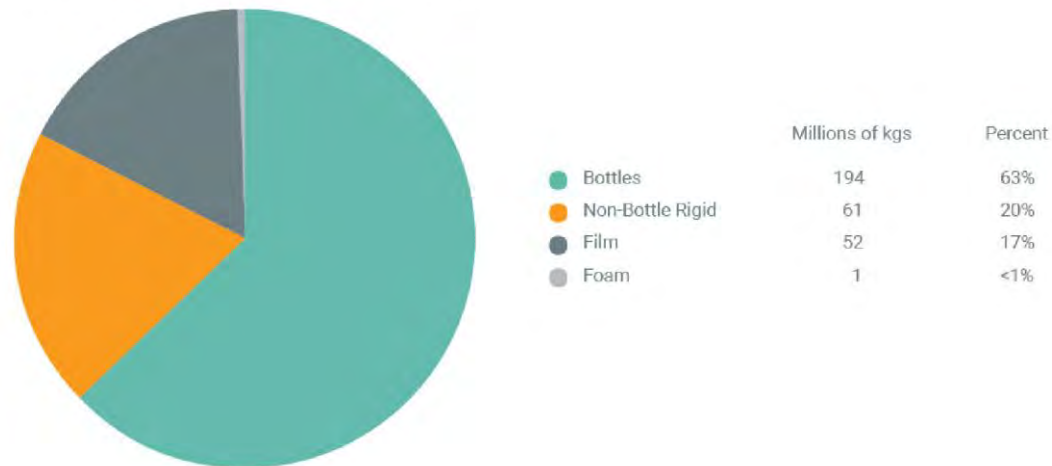


<https://www.government.nl/topics/circular-economy/from-a-linear-to-a-circular-economy>

The State of Plastic Collection

- ▶ 309 Million KGs of Plastic is collected for recycling in Canada in 2017.

Figure 2. Canadian Plastic Recycled by Major Category in 2017



- ▶ 31 Million KGs being sent over seas in 2016 (no longer being accepted) We recycle at a rate of 9%

More about Plastics



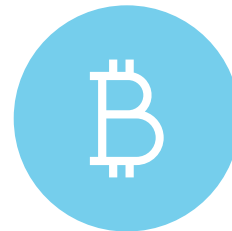
According to June 2019 report by the CPIA "2017 Post Consumer Plastics Report" they found that Plastic Bottles continue to be the highest volume of plastics collected. Film collection still very low.



The Plastics' ban occurred December of 2017 after this report. The effects of this ban is now just being felt. All the reports we could find boasted great recycle rates but were written prior to the ban.



Commercial Plastic recycling had a huge Data Gap. Residentially Film and others are about 66% of the generated plastics and only 18.8% are recovered. The amount of generated plastics is almost double that collected.



ReGen's experience for 2018-2019: Large waste collectors were not accepting certain plastics especially (FILM) from Commercial and that resulted in a huge influx of requests for us

So we
have
this!



Progress

Included in the upgrade: Additional space for processing – New building

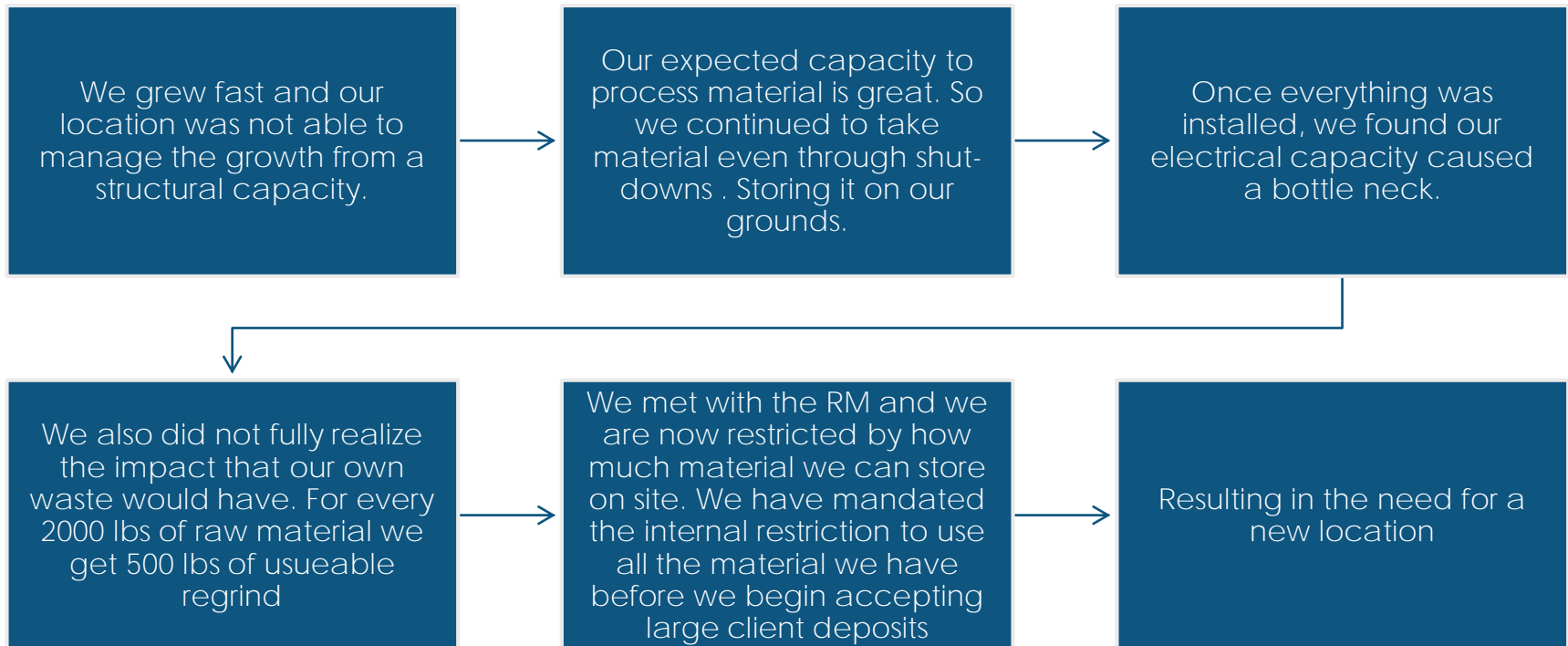
- Vecoplan shredders
- Rotogran granulators
- All new conveyors systems in both processing and manufacturing
- new high capacity mixers
- state of the art saws
- electrical upgrades

Capacity of processing :

2,000 lb per day -to 80,000 lbs per day



Lessons



What's new

In the last 18 months we have diverted approximately 3 Million lbs of material from landfill. We have processed about $\frac{3}{4}$ of that into product including :

- Benches
- Pallet Block/Stringers
- Synthetic Lumber



Coming Next

NEW PLANT FOR WINNIPEG

Locations have been scouted and we are negotiating on a location hopefully, will be completed before year end. New plant will take about 24 month to construct with a new location in Winnipeg up by end of 2021.

Diversions intentions outside Manitoba

- 2020** One New plant in Canada Toronto finalizing lease on location by end of November
- 2021** THREE New plants in the USA Los Angeles, Phoenix, Detroit

Our high impact goals per manufacturing line:

- ▶ 2020 – 29 million pounds of landfill diverted material recycled annually
- ▶ 2021 – 100 million pounds of landfill diverted material recycled annually
- ▶ 2024 – 200 million pounds of landfill diverted material recycled annually

We believe we can help free landfills of plastic.

COMING SOON

Programs in the works:

Plastic Bag Recycling – Bag up
Manitoba

City of Winnipeg- 4R Depot

Seasonal Recycling

Fort Whyte Center programs

WHRA program



Thank you!

If you have any further questions or inquiries please email:

mgowdar@regencomposites.com

