



GLASS RECYCLING: CHALLENGES AND SOLUTIONS

STEINERT 
MAGNETIC + SENSOR SORTING SOLUTIONS

CONTAINER GLASS LIFECYCLE IDEAL CASE



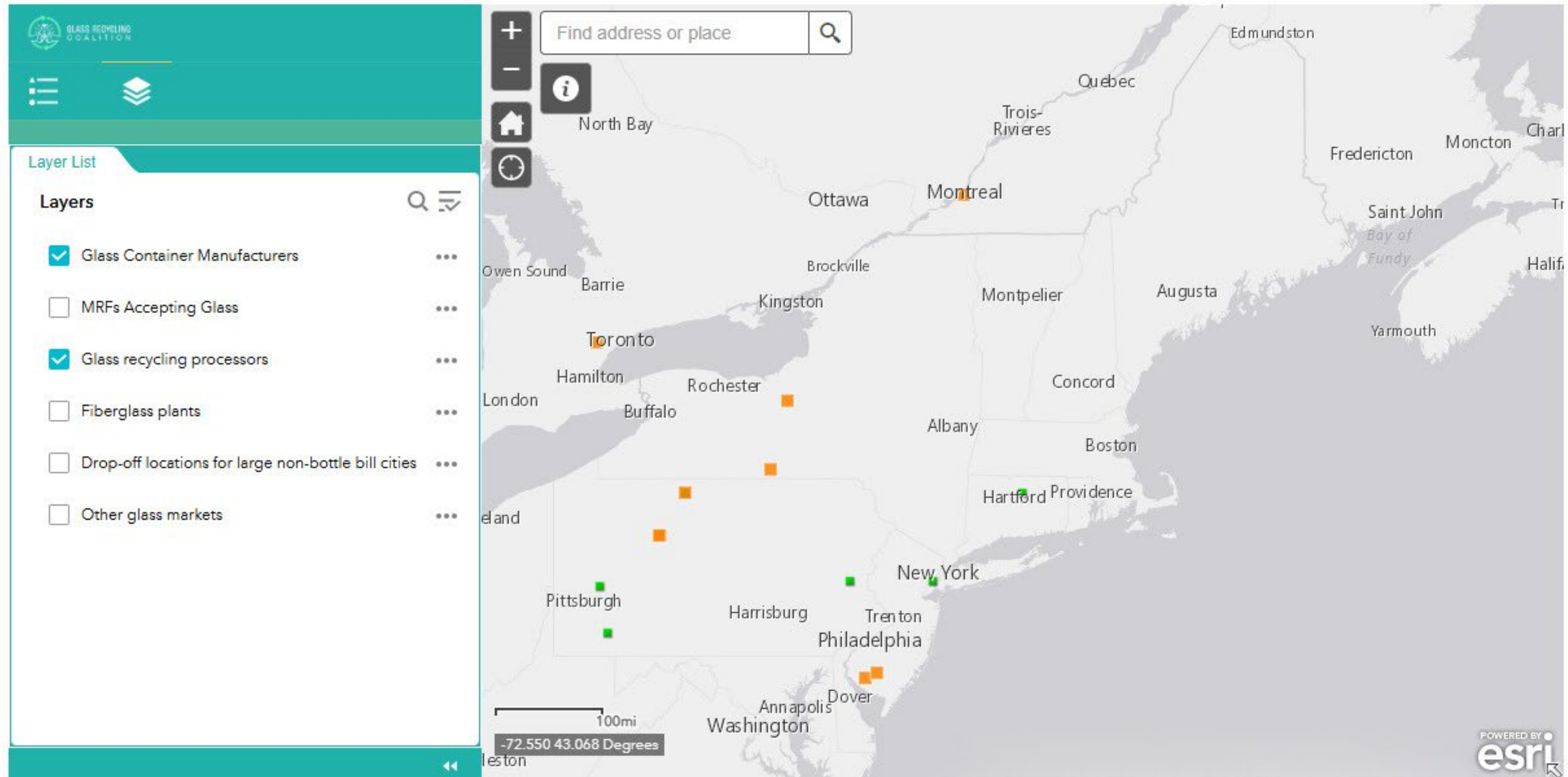
GLASS CONSUMPTION / RECYCLING

	Glass packaging waste generated	Collected / recycled	Outside recycling
United States	11-12 million tons	3.5 million tons	>7 million tons (Alternative Daily Cover, construction additives, insulation materials, etc)
European Union	17 million tons	13.2 million tons collected 12.6 million tons recycled	<4 million tons

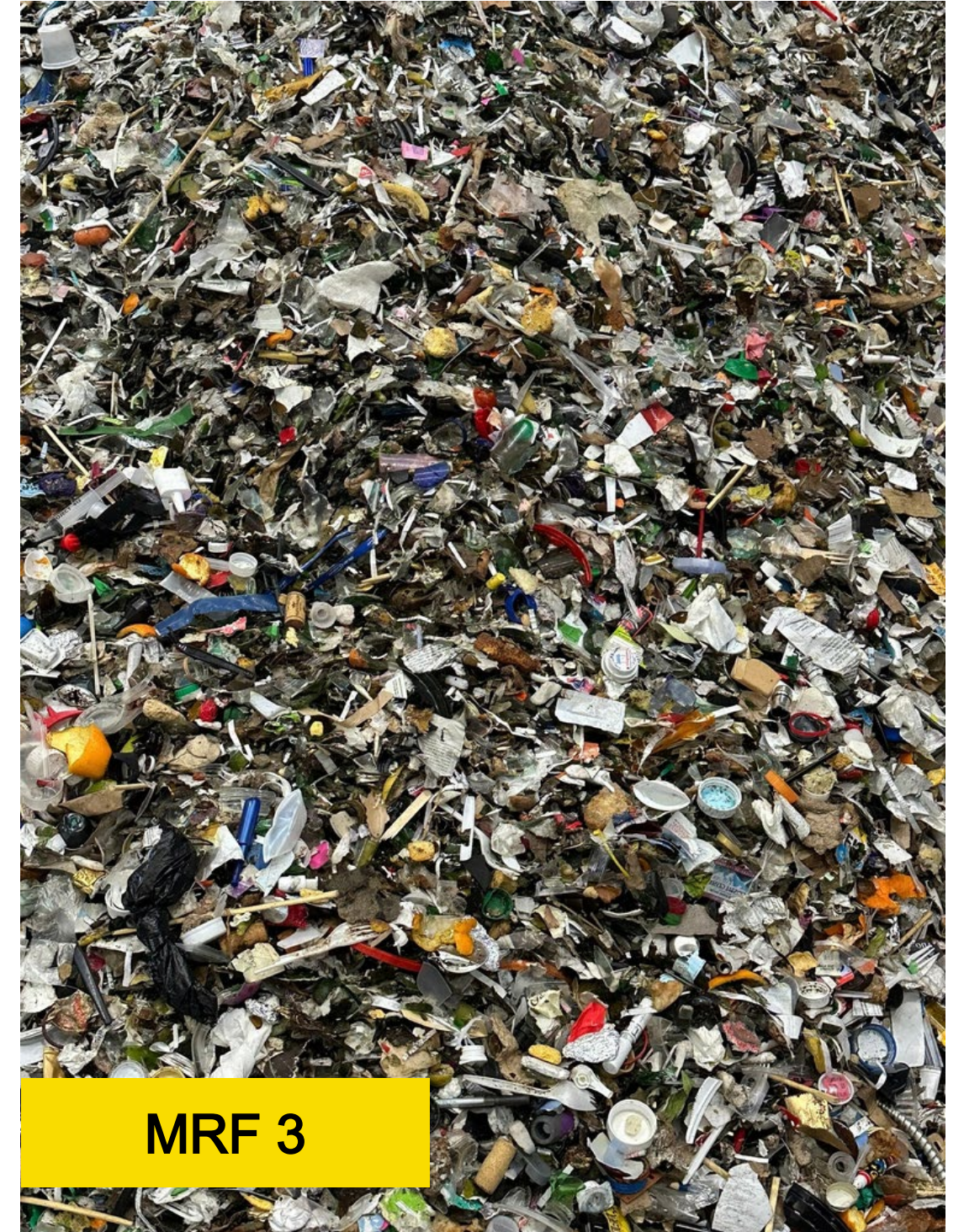
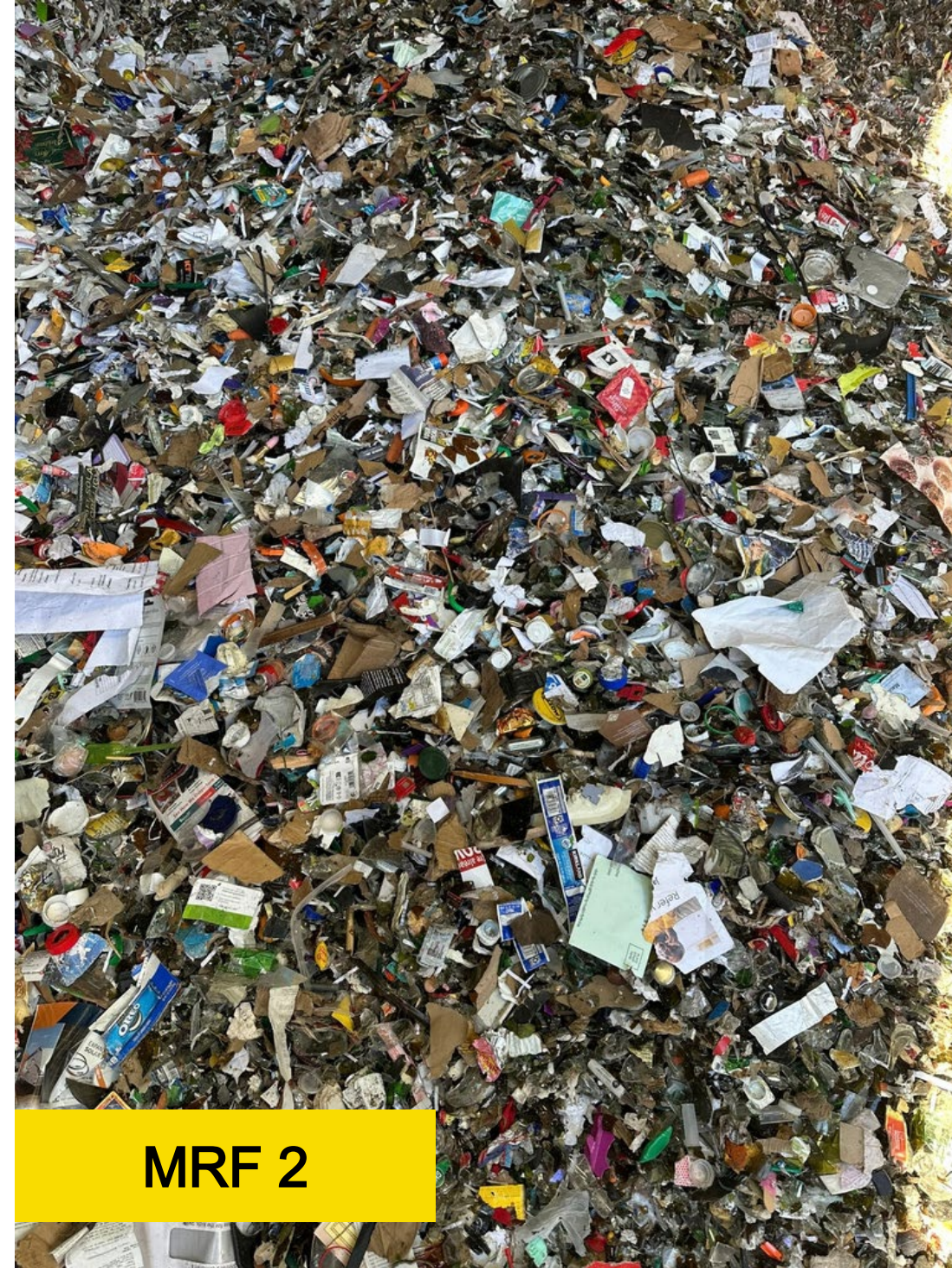
GLASS RECYCLERS

	USA	EU	
Glass recycling	Around 40 facilities	Over 100 facilities	EU: Glass deposit system and EPR working well USA: EPR covers glass packaging in 7 states, deposit system in 10 states
Glass bottle production plants	Less than 50 (3 closed in the USA in the past 2 years)	Over 160	USA: annual production about 12 million tons EU: annual production about 26 million tons
Recycled glass content	About 38%	Over 75%	Replacing 10% of primary materials with recycled glass saves 3% energy in the furnace

GLASS OFFTAKE AND PRODUCTION CAPACITY



/ OUR CHALLENGE—MRF “GLASS”



OUR CHALLENGE— MRF “GLASS”

- Average glass content: 40–60%, with some cases as low as 30%.
- Highly contaminated with paper, plastic, and organics, resulting in high moisture content and costly cleanup.
- Recyclers sometimes need to mix this material with “good” glass from separate collection to feed it into their equipment.
- Without a dryer in the system, sorter cleanup is required frequently because wet material sticks to static surfaces.
- Cleaning = downtime.



STEP-BY-STEP SOLUTION

- EPR
- Infrastructure for a separate collection system (reverse vending machines, buy-back locations)
- New equipment at MRFs
- New glass recycling plants



STEINERT MSORT TURNKEY SOLUTION FOR MRF GLASS CLEANUP

Process & Separation

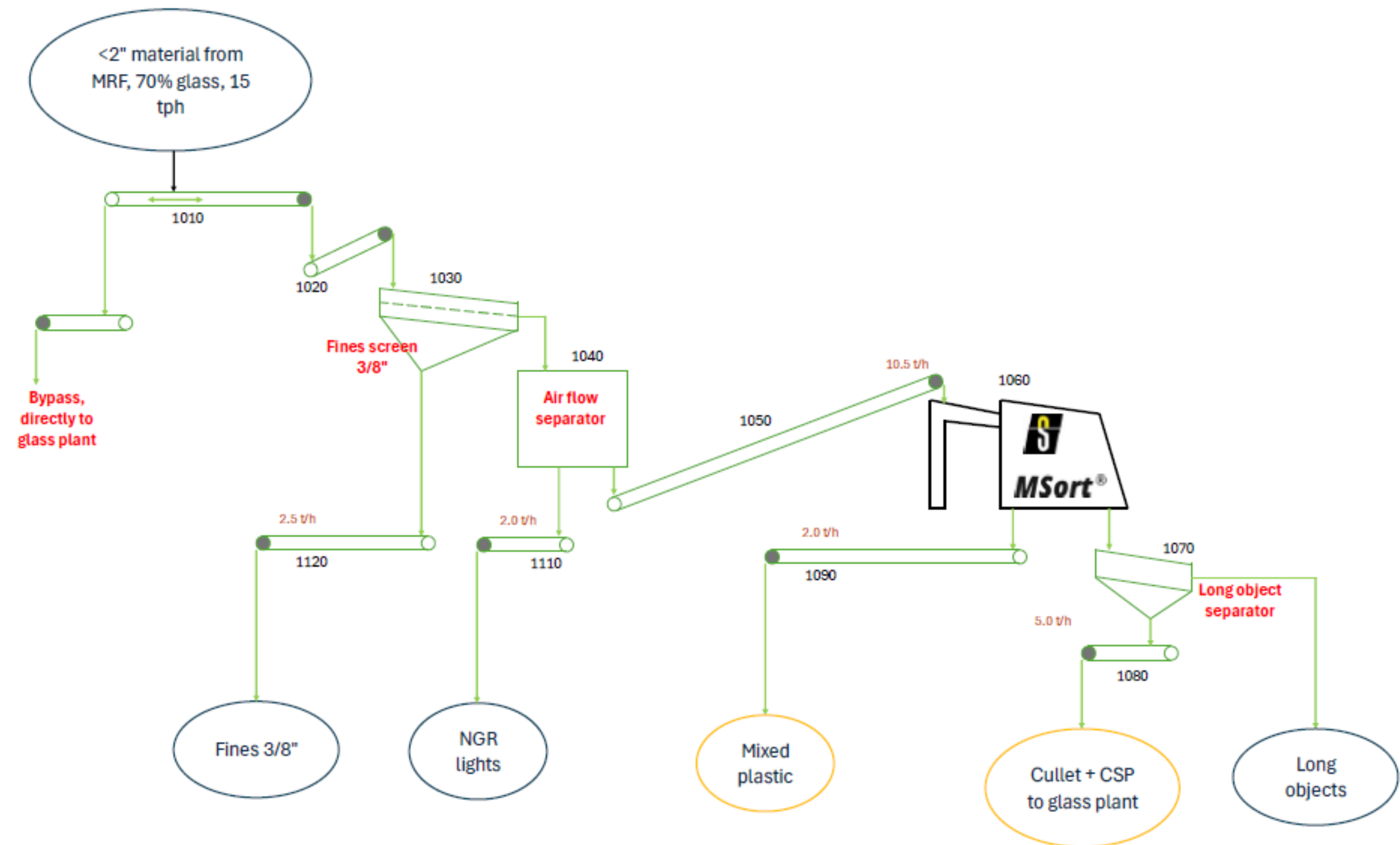
- Fines screen: 3/8" (1/4")
- Air flow separator
- MSort: Separates mixed plastic from glass

Products

- Mixed plastic stream
- Glass stream

Optional:

Magnetic and eddy current separators for metal removal



Contact

STEINERT US

285 Shorland Drive
Walton KY 41094

+1 800-595-40174
Sales@steinertus.com
steinertglobal.com/us/

Scott Chase

STEINERT Territory Manager - Waste Recycling

+1 (859) 739-0468
Scott.Chase@steinertus.com



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