

R&D Needs Summary

- Sustainable recovery of nutrients (e.g. Phosphorus)
 - Metal recovery
 - Water soluble chemicals
 - o Recycle nutrients back to ecosystem
- Biochemicals
 - Produce chemicals from waste
- Collection network optimization
 - Mechanical separation
 - Multi-residential & rural recycle
- Plastics
 - Increase of types that can be recycled
 - Non-biodegradable plastic contamination
- Characterizing waste streams
 - Lack of readily available data
 - o Inclusive, transparent, objective data
- Historical case studies
 - o Draw conclusions and knowledge from past
 - Failure and gap analysis
- LCA costing for processes and options
 - o Technical, environmental impact
 - Inform policy decision-making
- Ash utilization in thermal treatment
 - Recovery as another "R"
 - Urban mining
- Data
 - Need status, measure to manage, definitions
- Full costing to set objectives and desired outcomes
- Advanced EFW
 - o Barriers, needs, support, social understanding
- Markets



