



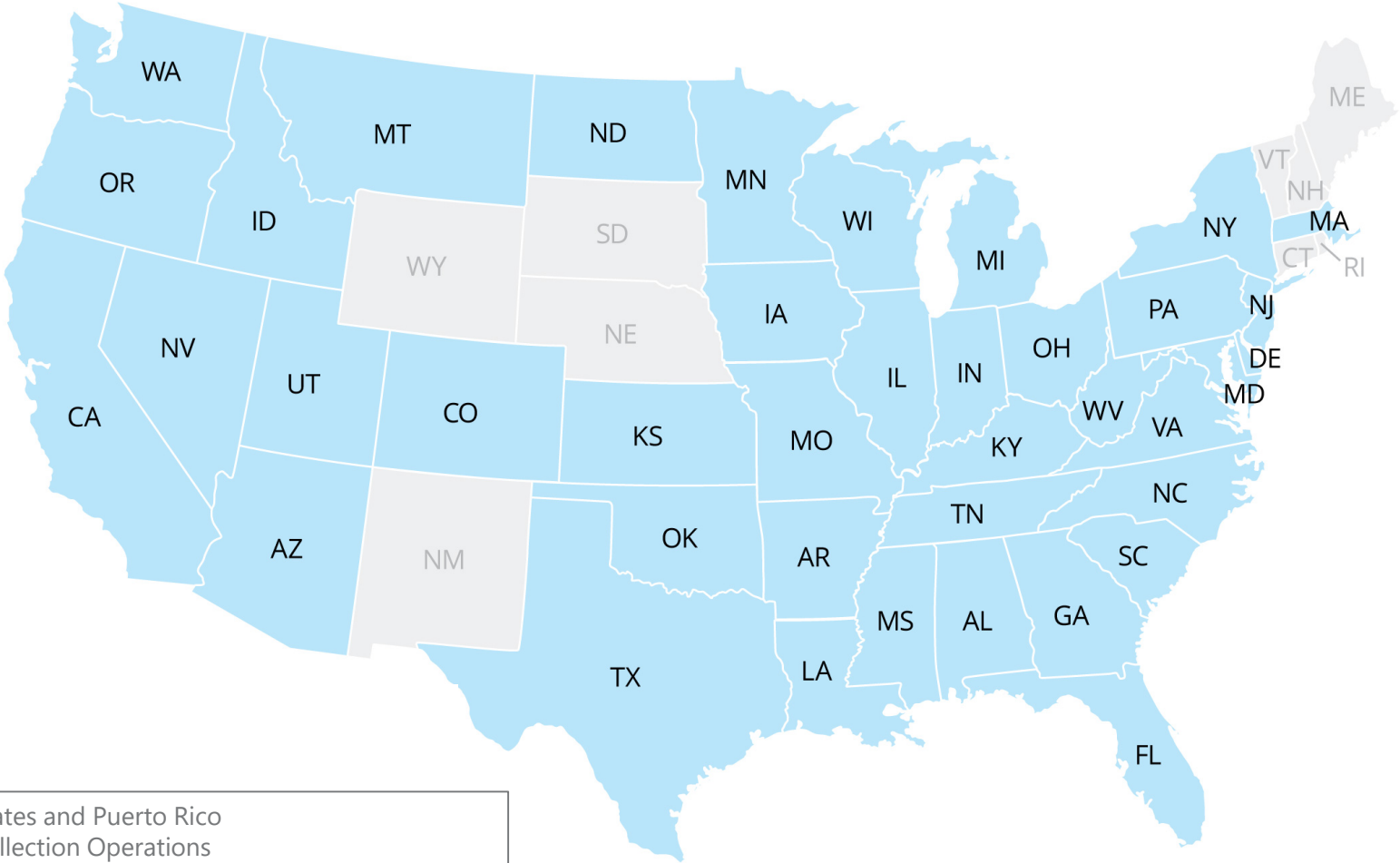
California Bioresources Alliance

Chris Seney

Director, Organics Operations



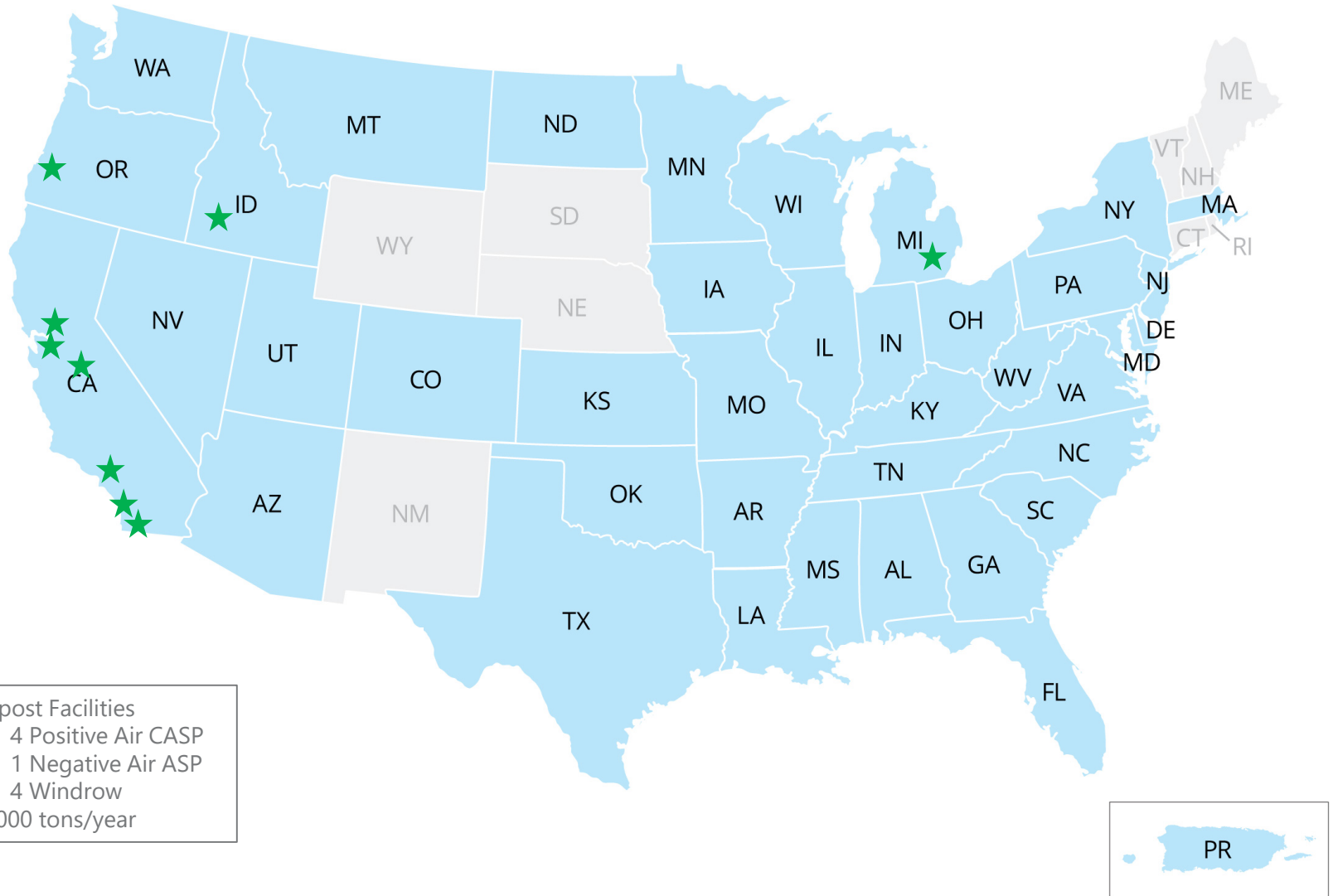
Republic Services - National Footprint



- 39 States and Puerto Rico
- 335 Collection Operations
- 202 Transfer Stations
- 191 Active Landfills
- 90 Recycling Centers
- 7 Treatment, Recovery, and Disposal Facilities
- 10 Salt Water Disposal Wells
- 70 Landfill Gas and Renewable Energy Projects



Compost Facilities



Organics Planning

- CA Organics Capacity Needed
 - ~7,000,000 Tons Capacity by 2020
 - ~14,000,000 Tons Capacity by 2025
- Customer Focus
 - Collection (Commercial - AB1826)
- CA Markets
 - Developing Multiple Solutions
 - Strategy Varies by Location
 - Multiple Outlets/Partners
- Orange County SSO - Closed Loop
 - Collection, Pre-process & Compost



Permitting New Capacity

- Significant Barrier
 - Risk, Cost, Time
- Personal Experience
 - Compost Facility – 1,100 Tons/Day
 - Permit Timeline - 9 years (2004-2012)
 - Development Cost ~\$6 Million
 - CEQA (EIR), NEPA, CalRecycle, Water Board, AQMD, BLM, CDFG, USFWS
 - Legal Challenges (CEQA)
- Additional Regulatory Support Exists Today
 - Collaboration



Contamination

- Substantial Challenge
 - Green Waste
 - Food Waste (SSO)
- Organics Heavily Contaminated (10-15%)
 - LF Only Option
 - Expected to Increase
- Pre-processing Technologies
 - Separates Food Waste & Contamination
 - 99% Separation



Organics Pre-processing Line



Unprocessed vs Processed Organics

Unprocessed



Processed FW



Contamination



Questions

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