

# A Brief Summary of Modern WTE Technology

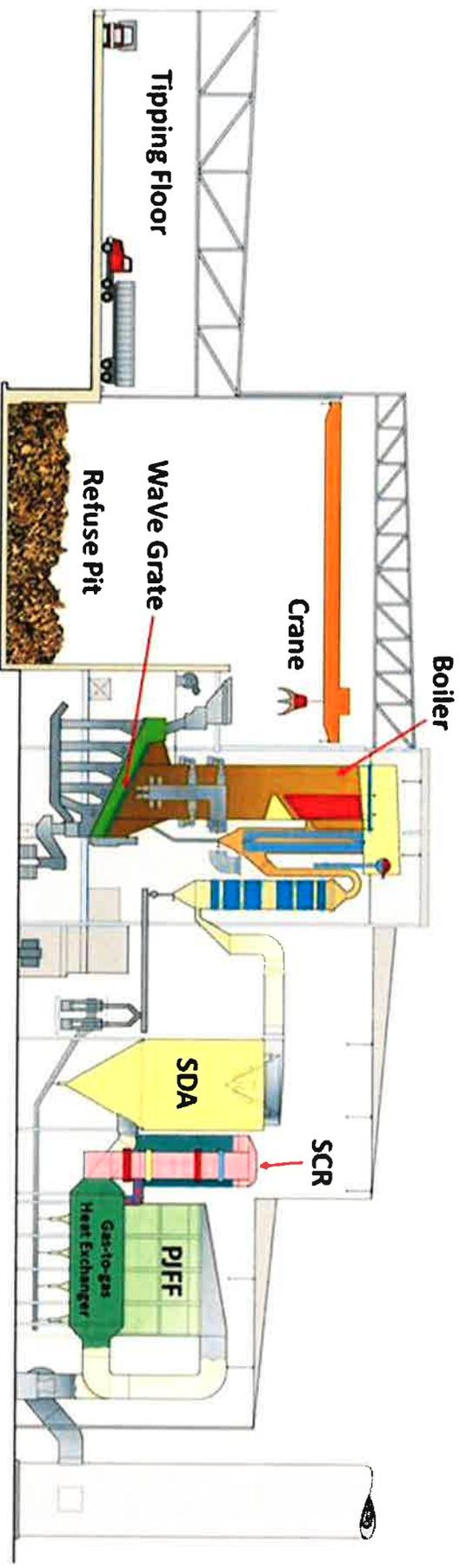
Sustainable Waste Management Solutions for the 21<sup>st</sup> Century



Presented to Brevard County BOCC  
March 31, 2016  
Brevard County, FL

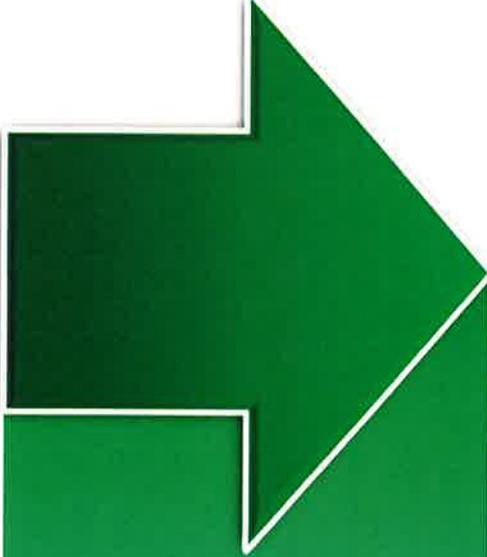
**CDM**  
Smith

# Typical Massburn WTE Facility Cross-Section



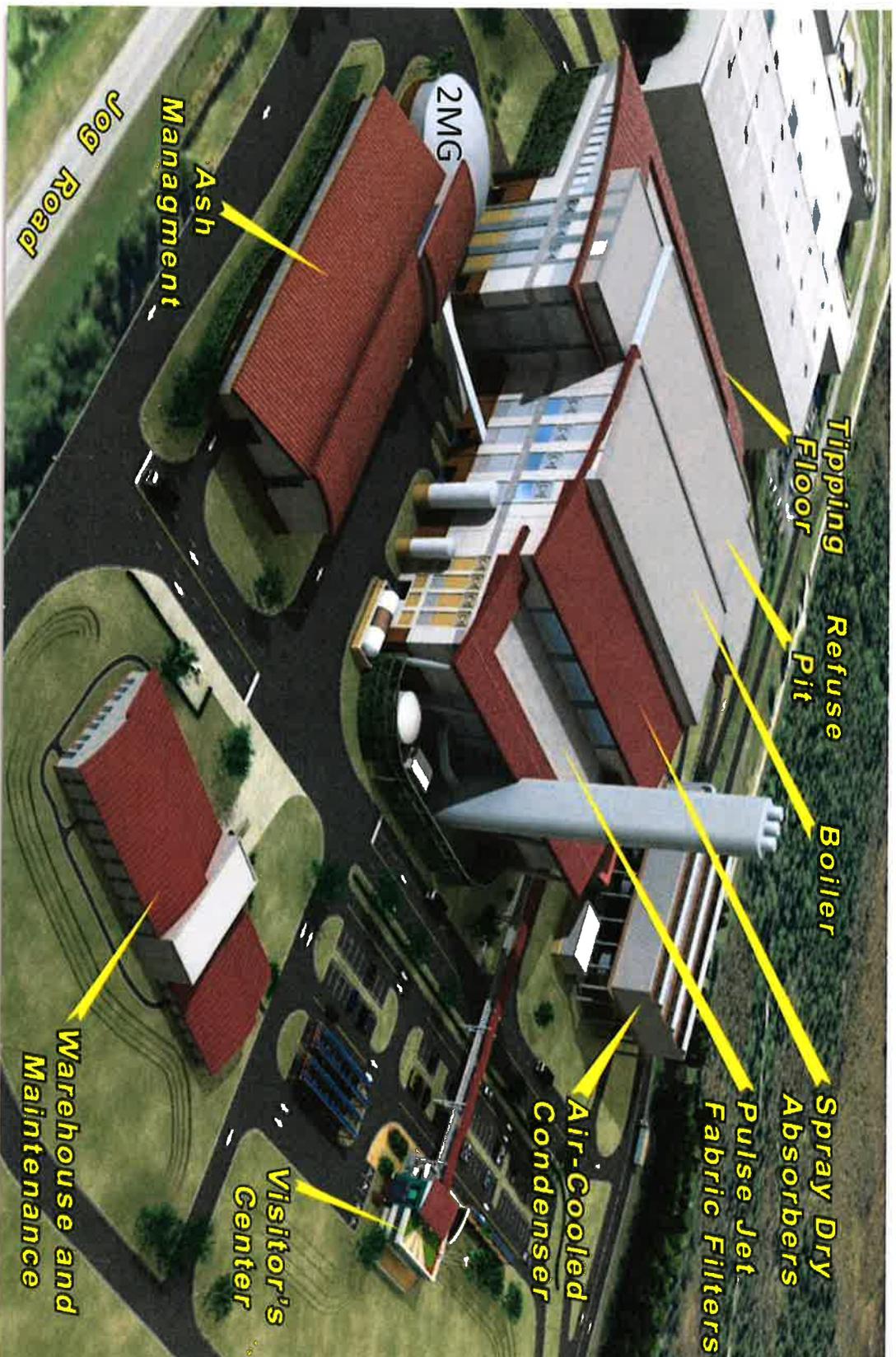
Volund technology employed at the newest WTE facility in the U.S.  
(Palm Beach County, Florida)

# WTE Trends - Improved Efficiency, Sustainability, but Higher Capital Costs and Lower Power Payments!

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- WTE facility expansions and new construction
  - Attention to aesthetics/LEED®/innovation
  - More stringent emission limits and GHG reporting
  - Higher Heating Value (HHV) of MSW
  - Inconel overlay on boiler tubes
  - Boiler/T-G availability
  - Use of reclaimed water for cooling
  - Gross/net electric generation
  - Non-ferrous metal recovery
  - Integrated solid waste management/eco-campus
  - Higher capital costs of WTE construction

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- Air emissions
  - Reagent consumption
  - Water consumption
  - Lower payments for electricity sold to the electric grid

**WTE Cost - An 1,800 tpd WTE Facility @  
\$250,000/ton of Capacity Will Cost ~ \$450 million**



**New 3,000 tpd WTE Facility in Palm Beach County, Florida**

Thank you for your kind attention, if you have any questions, please ask.

**Paul Hauck, PE**  
CDM Smith



**Address:**  
1715 N. Westshore Boulevard,  
Suite 875  
Tampa, Florida 33607



**Telephone:**  
813.281.2900



**E-mail:**  
[hauckpl@cdmsmith.com](mailto:hauckpl@cdmsmith.com)