







# What is coming to America? (cont'd)

- Conversion technologies for higher valued liquid fuels and chemicals
  - MSW -- watch what is coming on line closely
  - Mixed plastics almost ready for prime time
- Proven WTE depends on:
  - Energy economics
  - Political will



5



## **Local Solid Waste Management Goals**

- What are the state laws and regulations that affect what the local system needs to change to?
- What do you want/need to do?
- How do we make it happen?
- Is the public ready for the change(s)?
- How will "it" be paid for?
- Can "it" be approved by elected officials, their constituents, and regulators?





#### **Markets First**

- What are you making and how much is it worth?
  - Materials have high value
  - Compost for soil amendments have low value
  - Fuels and energy have value low to high value
  - Residues have negative value
- Who takes market and pricing risk?
  - Prices
  - Terms and term
  - Variability
  - Affect on service fees



7



#### Costs

- What will conversion technologies cost?
- The public sector doesn't have money
- It needs to cost less
- Cost to the waste service customer should be the focus
  - Service fees at the facility less relevant





## **Project Development**

- Address the "building blocks"
- Match collection with processing/recovery
- Develop the project concept
- Decide on ownership and risk posture
- Select contractor and technology
  - Procurement process vs. developer "Valley of Death"



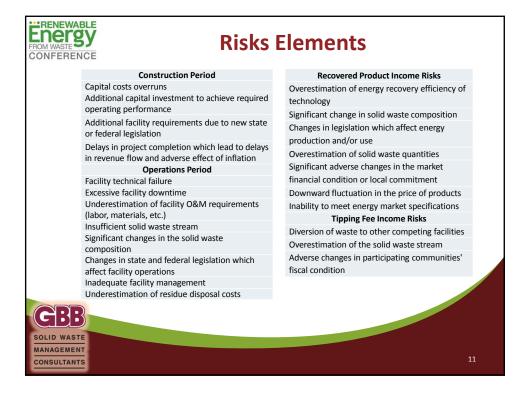
9



# Project Development (cont'd)

- Keep addressing the "building blocks"
- Developing public knowledge and acknowledgement of need
- Have patience....these projects may take years to get to project financing









## **Engaging the Public**

- Fighting emotion and bias with logic and science
  - Engage public relations support
  - Conduct focus groups
  - Be ready for anti-environmental terrorism
- Link to Solid Waste Authority of Palm Beach County response to the Florida Sierra Club
  - http://www.swa.org/pdf/SWAPBC GBB Final R
    eport 050311 w-Atchs.pdf



13



## Legislation and Regulations

- Will more states ban food scraps from disposal?
- Will U.S. landfill disposal ever be as expensive as in EU and UK?
- Too many changes introduces economic risk
- Permitting needs to be streamlined/rational
- Several states stepping up recycling/diversion goals and Producer Responsibility (EPR)
- EPA needs to help lead the way with RFS and EF rules



Waste is very recyclable and it is also very renewable!



