



Sustainable Collaborations for Organic Waste Management

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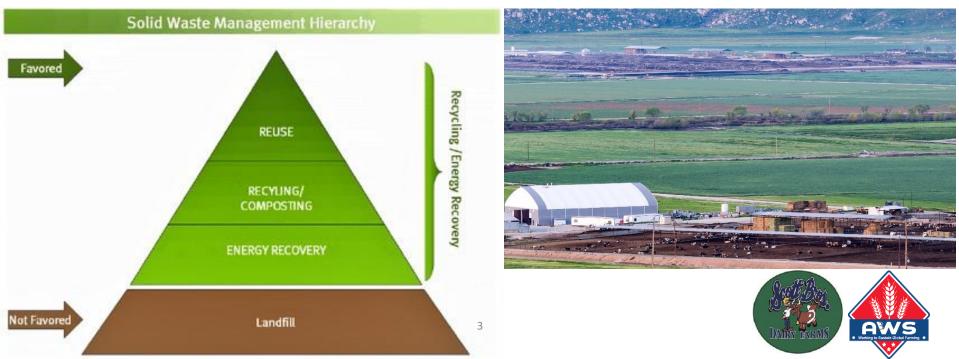


1) AWS Biochar grows healthy food crops 7) AWS Diesel powers 2) AWS Process inputs farm equipment to can be any organic harvest healthy food biomass crops The Next Generation of Organic Recycling 3) AWS Separation 6) AWS creates the Solutions cleanest burning technology is diesel in the world industry leading 5) AWS Process 4) Thermal Conversion outputs can include process is the only renewable diesel and technology approved in clean electricity the strictest air districts



Sustainable Collaboration Project Goals

- Develop community based strategic plans for organic waste management
 - SB 1383 compliance through smaller sites close to feedstock & offtake markets
 - Community partnerships with haulers, composters, farmers, technology providers
 - Sustainable agricultural solutions to integrate green, wood, food, manure wastes
- Reduce volume, transportation while creating value-added end products
 - On-farm compost centers to convert organic wastes to compost for on-farm use
 - Biochar production from organics added to compost to create Healthy Soils
 - Biofuels production from organics produce carbon negative transportation fuels



AWS BIOCHAR + COMPOST - COMBINED BENEFITS

AWS Biochar

- Hard Carbon (stable)
- High nutrient content (early, positive yields)
- Microbiology home
- High water retention
- CO2 sequestration
- Salts/toxins lockup
- Short production time
- Applied at any plant development stage
- Application flexibility
- Volume reduction

Compost

+ AWS Biochar

- + Microbiology home
- + Water retention
- + Stable humic compounds
- + Nutrient management
- + Plant availability
- + pH bal., CN ratio adjust
- + Reduced GHGe & VOC's
- + Reduced N loss
- + Salts/toxins lockup
- + Reduced curing times
- + No bulking agents
- + Volume pricing

Compost

- Soft Carbon (VOC's, decomposition)
- Lower nutrient content with green waste
- Microbiology home
- Moisture retention
- Long curing (4-6 weeks)
- High bulk application (tillage, turn-down only)
- Good volume pricing



Questions?



