

# ***“Animal Waste to Energy”***

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***Some Brief  
Introductory  
Comments...***

***“Waste Happens..”***

## ***Animal Waste Production***

*Dry Tons/Year*

***North Carolina:***

- Poultry:	<b><i>1,180,000</i></b>
- Swine:	<b><i>1,460,000</i></b>
- Dairy:	<b><i>219,000</i></b>
- Beef (recoverable):	<b><i>7,300</i></b>

***United States:***

- Poultry:	<b><i>19,200,000</i></b>
- Swine:	<b><i>8,000,000</i></b>
- Dairy:	<b><i>40,500,000</i></b>
- Beef (recoverable):	<b><i>12,700,000</i></b>

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***Depending on the ash content, the energy value is between ~ 4 and 9 kcal/g dry weight, and most will be in range of ~4 to 5...***

## ***But Remember...***

- ***Much of animal waste has already gone through one extraction and recovery process in the animal, along with conversion to new forms in microbial systems within the animal digestive system...***

## ***Issues to Recovery...***

- ***Distribution, collection, transportation***
- ***Moisture content***
- ***Resistance to market access***
- ***Economics***
- ***Politics...***
- ***Other?***

## ***Processes..***

- ***Burn (various non-biological oxidative methods)....***
- ***Gasify (various processes and combinations)....***
- ***Biologically processes (aerobic, anaerobic, combinations, etc)....***
- ***Combinations of the above...***

**OK.....**

- \* ***What processes work best in the South?***
- \* ***What are the regional limitations on marketing?***
- \* ***What are the bottom line economics?***