Customer Breakout Session II: 8:50-10:00 AM, Wednesday, September 19, 2007

Group:	Gp. 2-Cleveland Room
Facilitator:	Ken Vogel
Recorder:	Christian Tobias/Gautam Sarath
Presenter:	Mark McCaslin

For your Component, what should be the Sub-Components?

Please make Sub-Components clear, concise and unambiguous

Recommended Sub-Components (in priority)	Relative Weight
Traditional Breeding Regional approaches including marker-assisted selection	10
Basic Research (model systems? Cell Wall, Physiology, Architecture, abiotic stress)	8
HTP Phenotypic Assays-coupled to conversion efficiency/quality	6
New Energy crops (including oil crops)	6
Dual use crops (breeding for stover quality)	5

Key Energy Crops (unranked)
Sugar Cane
Sorghum
Switchgrass
Miscanthus
Arundo donax
Alfalfa
Other Grasses (needs to be explored further)
Maize

Recommended Sub-Components (in priority)	Relative Weight
Primary Biomass Crops Focus on a few with >1000gal/ac potential	
Secondary Crops: Starch, Stover, Biod.	
Regional Feedstocks	
Traditional Breeding Regional approaches MAS (1)	
New Biomass Crops/Breakdown barriers to investigate/weediness issue has been a problem that needs to be resolved	
Compositional properties-energy crops	
Dual use crops food/fuel stover quality breeding for better stover quality/composition-grain crops	
Environmental stress tolerance traits	
Marker assisted selection-application to more crops	
Germplasm development for perennials/breeding systems	
Association of key traits with markers	
Phenotyping-rapid predictive assays associated with conversion	
Basic understanding of plant physiology/cell wall (2)	
Higher oil-yield crops	
New Energy crops (3)	
Dual use crops (4)	
Basic Research (5)	

For each sub-component, recommend research partnerships that ARS should continue or explore with external institutions (e.g., other Federal agencies, universities, National Labs, and/or industry) – please record on flipcharts