1 Buckeye Drive
Perry, FL 32348-7702

Contact Information:
Director: Lonnie O. Ingram
ingram@ufl.edu | 352-392-8176

Plant Manager: Ralph Hoffman
rhoff@ufl.edu | 850-584-4507

Chief Process Engineer: Ismael U. Nieves
ismael.nieves@ufl.edu | 850-584-4507
Step 1. BIOMASS FEED
Step 2. PRETREATMENT
Step 3. LIQUEFACTION
Step 4. SEED PROPAGATION
Step 5. FERMENTATION
Step 6. BEER WELL
Step 7. DISTILLATION
Step 8. DECANTER
Step 9. DATA ANALYSIS
Everything entering the process leaves as a commercial product.

**Process Chemicals**
- Magnesium Sulfate
- Trace Metals
- N, P, K

**Biomass (70% Sugar)**
- 3-5 tons/day

**Fertilizer Co-Products**

**Solids Boiler Fuel Co-Products**
- 1-2 tons/day

**Ethanol**
- 210-350 gallons/day

**Day 0**
- Seed Propagation

**Day 1**
- Pretreatment
- Liquefaction
- Fermentation

**Day 1-4**
- Fermentation

**Day 4-5**
- Beer Well
- Distillation
- Decanter