



## ADF Engineering Projects:

### 1. *Biofuels and Renewable Energy*

- A. 110 MGY Fuel Ethanol plants, Owner scope of work and miscellaneous projects.
  - 1. Location: Greenville, OH and Clymers, IN
  - 2. Client: The Andersons
  - 3. Dates: 2009- present.
  - 4. ADF Budget: various
  - 5. Scope: Detail engineering included: process, piping, structural.
- B. Univenture Algae production.
  - 1. Location: Marysville, OH
  - 2. Client: Univenture
  - 3. Dates: 2009- present.
  - 4. ADF Budget: various
  - 5. Scope: process engineering
- C. Barley protein concentrate: Definition Package
  - 1. Location: Montana
  - 2. Client: Montana Microbial
  - 3. Dates: Jan- Mar 2009
  - 4. ADF Budget: Various
  - 5. Scope: Process, preliminary engineering and CCE.
- D. Feedlot Ethanol plant preliminary studies.
  - 1. Location: Australia
  - 2. Client: MSW
  - 3. Dates: 2008
  - 4. ADF Budget: Various
  - 5. Scope: Process, preliminary engineering and CCE.
- E. Biodiesel plant Definition package.
  - 1. Location: Canada
  - 2. Client: RLS
  - 3. Dates: 2008
  - 4. ADF Budget: Various
  - 5. Scope: Process, preliminary engineering and CCE.
- F. Altra 60MGY and 92 MGY Fuel Ethanol plants, Owner scope of work and miscellaneous projects.
  - 1. Location: Coshocton, OH and Cloverdale, IN
  - 2. Dates: 2007- present.
  - 3. ADF Budget: various
  - 4. Scope: Detail Engineering. Detail engineering included: process, piping, structural. Misc. projects include: Fermenter Addition, Process & Potable Water supply, Ethanol Loadout.
  - 5. [www.altrabiofuels.com/Facilities.cfm#Coshocton](http://www.altrabiofuels.com/Facilities.cfm#Coshocton)
  - 6. [www.altrabiofuels.com/Facilities.cfm#Indiana](http://www.altrabiofuels.com/Facilities.cfm#Indiana)
- G. Collingwood Ethanol 30MGY conversion of corn wet milling to Fuel Ethanol plant.
  - 1. Location: Collingwood, Ontario
  - 2. Client: Dominion Energy
  - 3. Dates: 2007
  - 4. ADF Budget: \$1 MM
  - 5. Construction Budget: \$25 MM

6. Scope: Preliminary and Detail Engineering included: process, piping, structural.
  7. [www.collingwoodethanol.com/](http://www.collingwoodethanol.com/)
- H. UWGP 40MGY Fuel Ethanol plant 10 MGY expansion.
1. Location: Friesland, WI
  2. Dates: September 2006- April 2007.
  3. ADF Budget: \$500k
  4. Construction Budget: \$5 MM
  5. Scope: Engineering and construction administration. Detail engineering included: process, piping, structural, instrumentation and electrical.
  6. [www.uwgp.com/](http://www.uwgp.com/)
  7. [www.strongform.net/completed\\_projects.html](http://www.strongform.net/completed_projects.html)
- I. Minndak Ethanol Feasibility Study and CCE
1. Location: WI
  2. Dates: 2007
  3. ADF Budget: \$20k
  4. Scope: Feasibility study and CCE.
- J. Alberta Ethanol 100MGY Fuel Ethanol plant and Biodiesel preliminary engineering.
1. Location: Alberta, Canada
  2. Client: Dominion Energy
  3. Dates: 2007
  4. ADF Budget: \$150K
  5. Scope: Process, preliminary engineering and CCE.
- K. Advanced Biofuels.
1. Location: Ohio
  2. Client: AdvancedBio
  3. Dates: 2007
  4. ADF Budget: Various
  5. Scope: Process Engineering.

## **2. Food and Agri- Processing, Specialty Chemicals**

- A. Agri-Processor \* Misc. Projects
1. \*- client's name and project information are omitted due to client confidentiality request
  2. Location: Ohio
  3. Dates: 2003- present.
  4. Scope: Preliminary and Detail Engineering. All disciplines.
  5. Misc. projects include: Product truck loadout, Product Cooling System Expansion, Sweetener Plant expansion, Energy reclaim projects, Specialty Feed Products preliminary engineering and CCE. Cooling Tower addition. Product storage. R&D Lab addition. Building Permit Assistance.
- B. Agri-Processor \* Misc. Projects
1. \*- client's name and project information are omitted due to client confidentiality request
  2. Location: Tennessee
  3. Dates: 2006- present.
  4. Scope: Preliminary and Detail Engineering. All disciplines. RTO Process Engineering. Structural corrosion and OSHA assessment. Oil Waste Water Treatment. Energy reclaim projects. Product Dryer replacement. Product separation piping.
- C. P&G Petcare Misc. Projects
1. Location: Ohio, Nebraska, North Carolina, Arkansas
  2. Dates: 2007- present.
  3. ADF Budget: various
  4. Scope: Preliminary and Detail Engineering. All disciplines.

- D. Agri-Processor \* Misc. Projects
  - 1. \*- client's name and project information are omitted due to client confidentiality request
  - 2. Location: Indiana
  - 3. Dates: 2006- present.
  - 4. Scope: Preliminary and Detail Engineering. All disciplines.
  - 5. Package Boiler Addition, PSM, Ventilation. Office addition.
- E. Dannon Yogurt
  - 1. Location: Ohio
  - 2. Dates: June- Aug 2009
  - 3. Scope: Engineering Study
- F. Sweetener-terminal \* Dry product transloading
  - 1. \*- client's name and project information are omitted due to client confidentiality request
  - 2. Location: Massachusetts
  - 3. Dates: 2004
  - 4. Scope: Preliminary and Detail Engineering. All disciplines.
  - 5. Dry sweetener Rail to Truck transloading and loadout.
- G. Salt processor- Misc. Projects
  - 1. \*- client's name and project information are omitted due to client confidentiality request
  - 2. Location: WI and IL
  - 3. Dates: 2008- present.
  - 4. ADF Budget: various
  - 5. Scope: Preliminary and Detail Engineering. All disciplines.
  - 6. Structural corrosion and OSHA assessment
- H. Organic Acid Plant Misc. Projects
  - 1. \*- client's name and project information are omitted due to client confidentiality request
  - 2. Location: OHIO
  - 3. Dates: 2003- present.
  - 4. ADF Budget: various
  - 5. Scope: Preliminary and Detail Engineering. All disciplines.
- I. New Sweetener plant.
  - 1. \*- client's name and project information are omitted due to client confidentiality request
  - 2. Location: China
  - 3. Dates: 2006.
  - 4. ADF Budget: \$150K
  - 5. Scope: Process Engineering.
- J. Cheese Whey Permeate Ethanol Feasibility Study and Cost Estimate (CCE)
  - 1. \*- client's name and project information are omitted due to client confidentiality request
  - 2. Location: WI
  - 3. Dates: 2006
  - 4. ADF Budget: \$25k
  - 5. Scope: Process, preliminary engineering and CCE.

### **3. BioScience and Pharmaceuticals**

- A. Pfizer Misc. Projects
  - 1. Location: Franklin, OH
  - 2. Dates: 2007- present.
  - 3. ADF Budget: various
  - 4. Scope: Preliminary and Detail Engineering. All disciplines.
- B. Eurand - Pharmaceutical Misc. Projects
  - 1. Location: Vandalia, OH
  - 2. Dates: 2003- present.
  - 3. ADF Budget: various

4. Scope: Preliminary and Detail Engineering. All disciplines and all project phases
- C. Arboris Sterols production- Misc. Projects
1. Location: Newark, OH
  2. Dates: 2007- present.
  3. ADF Budget: various
  4. Scope: Preliminary and Detail Engineering. All disciplines.
- D. Flavors Manufacturer \* Misc. Projects
1. \*- client's name and project information are omitted due to client confidentiality request
  2. Location: Multiple
  3. Dates: 2008- present.
  4. ADF Budget: various
  5. Scope: Preliminary and Detail Engineering. All disciplines.
- E. Soy Protein processor - Misc. Projects
1. \*- client's name and project information are omitted due to client confidentiality request
  2. Location: OHIO
  3. Dates: 2004- 2006.
  4. ADF Budget: various
  5. Scope: Preliminary and Detail Engineering. Building Permit Assistance