

## HARRISON ETHANOL MILESTONES / TIMELINE

### 2017

1-25-2017 National and International insurance is renewed for Farmers' Ethanol LLC and Harrison Ethanol LLC and their officers.

### 2016

11-15-2016 Certified Livestock Manager Licenses #32 and #33 are renewed as a requirement of the Major Concentrated Animal Feeding Facility (animal capacity over 10,000 cattle).

9-20-2016 EverPower Solar presents options to utilize barn roofs for possible 15 megawatts solar photovoltaic installation, using Harrison's existing 138KV or 69KV American Electric Power transmission lines.

6-6-2016 Negotiate American Electric Power Right-of-Way to install a new monopole 138KV transmission line parallel to the existing 138KV line with supporting connections to the existing 69 KV line to DTE Dickerson LLC (Detroit Edison).

3-21-2016 Ohio Department of Agriculture ratifies our prior submission of cattle manure and urine management plan to the Environmental Protection Agency. NPDES Permits are ratified.

1-22-2016 Weighted Moody, Standard & Poor's, Fitch ratings are secured for Harrison's offtake contracts. RIN credits and Government electricity sales are separately rated.

### 2015

12-18-2015 Investment Tax Credit is reinstated and authorized by The P.A.T.H. Act from Congress for electrical generation from open loop biomass. Harrison qualifies for this ITC.

12-5-2015 Maintenance renewals of EPA permits are submitted and accepted. All EPA permits remain in full force and effect.

8-17-2015 Establish relationship with Beijing, China engineering and equipment procurement firm to source certain process equipment for Harrison Ethanol LLC in Cadiz, Ohio, USA.

7-7-2015 Fred Buckman modified the Economic Model to reflect the substantial increase to the Enterprise Value, recognize the elimination of corporate debt, and modify the modeling to accept EuroBond debt placement.

4-21-2015 Harrison Ethanol renews its Federal Contractor status enabling IDIQ electric sales to Government entities under Renewable Portfolio Standard (electricity) 19 Mar 2015 mandate.

2-4-2015 Paul Risk Associates agree to provide bonding for Harrison's 20MT construction.

## **2014**

12-12-2014 Pay off final Mortgage Debt on 276.67 acres of land and 84 acres of Water Rights. Harrison Ethanol LLC and Farmers' Ethanol LLC have ZERO debt. Enterprise Value rises.

12-12-2014 Purchase all remaining outstanding Harrison Ethanol LLC partnership subscriptions. The company is 100% privately owned by founders Wendel Dreve and Marion Gilliland, Ph.D.

8-4-2014 Modifications to EPA Air permit for Mobile Combustion Units are accepted by EPA.

6-17-2014 Federal Contractor License is authorized for Harrison Ethanol LLC.

3-11-2014 Hess Corporation ratifies "no claim" under Ohio Dormant Minerals Act.

1-20-2014 Develop and execute sale for Marcellus and Utica.

## **2013**

4-15-2013 MarkWest's Douglas Vogler executes egress permission for pipeline survey for downstream pipeline partners for multiple pipelines in parallel.

4-3-2013 Mark Robertson of Potomac Global Advisors arranges equipment for the 20 Metric Ton bioethanol plant from China, financing by private Chinese investors and China Export Import Bank.

3-12-2013 R. Z. Safranovitz is processing beef animals to supply east coast ethnic meats. We develop and complete "complying" rules for ritual harvest using Temple Grandin Ph.D. designs.

## **2012**

10-9-2012 Dartmouth College, Anne Kapuscinski, Ph.D. will reference Farmers' design in a coming Dartmouth case study for balanced energy production with environmental consideration. Dr. Kapuscinski requested details from the United Nations – FAO report identifying the Farmers' – Harrison process. We supply the UN-FAO study.

10-6-2012 Serbia Trip, meet Dragana Fragner and Maja Fragner of the Belgrade Office, and continue forward to meet various Ministers of Government; Ambassador Vladimir Petrovic, Minister Velimir Ilic, MP Zaharije Trnaveciv.

9-4-2012 Farmers' Ethanol establishes representation with Petar Stojanoic, Esq. Belgrade, Serbia with a referral by Squires Sanders of Cleveland.

- 8-20-2012 Price Waterhouse Coopers independent economic review of Farmers' Agri Energy SA Romania is used as a constructive example for Mediterranean Basin Economics.
- 8-9-2012 Certified Livestock Manager continuing education requirements are completed; Wendel Dreve and Marion Gilliland received their continuing CLM certification for Major Concentrated Animal Feeding Operations.
- 7-26-2012 Spectra Pipeline / Global Geophysical executes survey requirement for Mark West at the northern most part of Harrison County site. Spectra provide a Mark West Certificate of Liability Insurance and execute a non-explosive Vibe truck survey requirements amendment.
- 5-1-2012 Fred Buckman redesigns the economic model to conform to European accounting standards. The new economic model will have currencies election and metric/SAE conversion election.

**2011**

- 12-2-2011 The Ohio Department of Agriculture renews and extends Harrison Ethanol's CAFO Permit to Install.
- 9-1-2011 The Ohio Environmental Protection Agency issues a renewed Permit to Install for the wastewater treatment facility at Harrison Ethanol.
- 6-24-2011 Create Farmers' Agri Energy SA Romania. Develop KATZEN license agreement for Farmers' Agri Energy SA Romania; return the Pound-Maker of Canada design after using the drawing/design for the USDA loan guarantee for the 20 Metric Ton smaller facility.
- 2/17/2011 The Food and Agriculture Organization of the United Nations (UN-FAO) publish a report, *Making Integrated Food-Energy Systems Work for People and Climate*. The report identifies Farmers' Ethanol as an integrated closed-loop bioethanol plant that could be a solution for safely integrating food and energy production worldwide.
- 2-15-2011 Develop hard quote from KEYU Jinan Zhanye Equipment Company of China to supply Chinese equipment distillation for Harrison 20 Metric Ton facility.

**2010**

- 10-1-2010 Grant application submitted for the Advancing Biofuels Beyond the Basics Program as part of the Ohio Department of Development's State Energy Plan – American Recovery and Reinvestment Act.
- 9-21-2010 Wetland Determination for Harrison Ethanol - The USDA Natural Resources Conservation Service determined that no wetlands were found at the Harrison Ethanol site.

- 9-1-2010 Grant application submitted for the Transforming Waste to Value Program as part of the Ohio Department of Development's State Energy Plan – American Recovery and Reinvestment Act.
- 8-3-2010 Randy Monhemius of US Department of Agriculture informs Harrison Ethanol LLC that Huntington National Bank has agreed to and submitted a loan guarantee application for the 20 Metric ton facility to the USDA.
- 6-29-2010 Harrison Ethanol develops bifurcation of 276 acres into 2 leases to permit 20 Metric Ton facility to operate legally under existing permitting. Execute lease and prepay required rental requirements under private contract.
- 6-3-2010 Wendel Dreve and Marion Gilliland complete required Continuing Education Requirement to renew Certified Livestock Manager license #32 and #33. Certified Livestock Manager Renewals are issued by the Department of Agriculture.

## **2009**

- 7/14/2009 Harrison Ethanol submits 2 applications for funding from the US Department of Energy's National Energy Technology Laboratory (division) as part of the American Recovery and Reinvestment Act. The applications submitted were for Combined Heat and Power and Efficient Industrial Equipment.
- 5/19/2009 The Federal Stimulus Package is being awarded to states to financially support local government and established companies with showcase expansion "add on facilities". No new Greenfield "Shovel Ready" projects are being funded.

## **2008**

- 12/8/2008 The Ohio Environmental Protection Agency notified Harrison Ethanol that its application for a permit modification was complete and technical review will begin.
- 9/15/2008 Wendel Dreve traveled to London, United Kingdom to meet with Lloyds of London Insurance, Hong Kong Shanghai Insurance and AXA Insurance to secure construction insurance, system performance insurance and production capacity insurance.
- 4/11/2008 Harris Group Inc. completed an "Enterprise Capacity Report" for their technical due diligence. This report independently verifies the capacities and production capabilities from the technology design when coupled to the anaerobic digesters and the combined heat and power for steam and electricity generation.
- 4/4/2008 Harrison Ethanol received a "Determination of No Hazard to Air Navigation" from the Federal Aviation Administration for the construction of corn storage silos.
- 2/1/2008 Geoffrey Mosser, Esq. prepares a right-of-way for the 69 KVA line for American Electric Power for renewable electricity shipped from Harrison Ethanol.

## **2007**

- 11/1/07 Marathon Petroleum Company LLC executed a five-year Ethanol Purchase Agreement with Harrison Ethanol.
- 10/19/07 Harrison Ethanol entered into construction agreements with Ruhlin Construction Company of Sharon Center, Ohio – a Design Build Contract for the ethanol side of the facility and a Construction Management Contract for balance of the facility.
- 5/23/2007 Air Liquide of France executes a “Letter of Intent” to purchase the beverage grade CO2 from Harrison Ethanol.
- 5/1/2007 Under permitted application, Harrison Ethanol is named as a candidate by the Environmental Protection Agency to qualify as an energy efficient ethanol producer to receive the 2.5-to-1 Energy Policy Act of 2005 renewable energy RIN credits. Notice published in the Federal Register May 1<sup>st</sup>, 2007 [72 FR 23900].
- 1/3/2007 Professional Services Industries Inc (PSI Inc.) submits a geotechnical report “Approved for Heavy Construction” for the ethanol facility located on the former Consolidated Coal mining property. This report details the ground bearing capability of the ethanol plant locations and reports the approved results of mitigation of the soil anomalies previously identified.

## **2006**

- 11/3/2006 KATZEN International Inc. becomes Harrison Ethanol’s Ethanol Technology Provider. KATZEN has special knowledge and design of integrated ethanol with animal facilities and combined heat and power. Katzen has designed and dedicated more than 103 ethanol plants worldwide, including 3 ethanol-and-cattle facilities.
- 9/10/2006 Heavy excavation continues for the Harrison Ethanol LLC ethanol production facility foundation in Cadiz, Ohio. Former railroad spurs are removed and rail beds leveled for site preparation. Stage testing and compliance approval to EPA construction permit is verified by independent engineering and testing service.
- 9/7/2006 Heavy excavation commences for Farmers’ Ethanol LLC’s home office near Adamsville, Ohio. The approved fire and storm resistant structure will contain 6,500 square feet of office space. T-1 communications, 12-line phone cable and 630 Amp 220 volt electric services are installed.
- 8/3/2006 The Ohio Coal Development Authority agrees to assist Farmers’ Ethanol develop coal based and/or coal derived fuels including coal mine methane (CMM) and coal bed methane (CBM) for use as an alternative fuel for Harrison Ethanol LLC.
- 5/30/2006 Farmers’ Ethanol LLC pays off and completes the \$600,000 interim financing for Harrison Ethanol LLC with Consumers National Bank. Farmers’ Harrison Ethanol LC schedules heavy excavation work.

5/17/2006 Final Geo-Technical and Final Topographic Survey for the heavy earth and foundation construction of Harrison Ethanol is commenced.

2/4/2006 Farmers' Ethanol presents 05-1500-EL-COI Petition to the Public Utilities Commission of Ohio [PUCO] for creation of Ohio Renewable Energy Portfolio Standards centered on on-site green energy production through thermal efficiency; cost effective balanced energy transmission and distribution access; implementation of smart metering; conform Ohio codes to federal Energy Policy Act of 2005.

1/12/2006 Harrison Ethanol received the final \$500,000 grant award distribution authorization from United States Department of Agriculture for "Best Technical Merit" for Renewable Energy Machinery and Equipment.

The Ohio Rail Development Commission awards Harrison Ethanol LLC a \$200,000 railroad rehabilitation grant and a \$500,000 railroad rehabilitation low-cost interest loan to renovate the 7.1 miles of the Georgetown rail spur of the Columbus and Ohio River Railroad line.

## **2005**

1/15/2005 Completion and Release from the Public Notice period of the final Finding of No Significant Impact on the Environment (FONSI) for release of Federal funds under Section 104(g) of Title I of the Housing and Community Development Act of 1974 for Community Development Block Grant in Harrison County, Ohio for Harrison Ethanol LLC.

11/3/2005 Harrison Ethanol LLC completes the legal and taxation registration reviews for their Securities and Exchange Commission 501 Regulation "D" Private Placement of securities in Connecticut, Illinois, Iowa, Ohio, New Hampshire, Montana, Pennsylvania and Wisconsin.

The U.S. Army Corps of Engineers completes its review Harrison Ethanol LLC and Harrison County Water & Sewer joint environmental application to supply fresh water to Harrison Ethanol LLC from Cadiz Village water systems. USACE states Department of Agriculture Rural Development (USDA) is notified.

9/30/2005 Title and land transfer documents are recorded at the Harrison County Courthouse. Harrison Ethanol LLC purchases 276 acres from CONSOL Energy in Harrison County Recorded Page 2445 Book 162.

9/26/2005 Publication & Public Notice of a Finding of No Significant Impact on the Environment (FONSI) for release of Federal funds under Section 104(g) of Title I of the Housing and Community Development Act of 1974 for Community Development Block Grant Economic Development for Harrison Ethanol LLC.

- 6/28/2005 Consumers National Bank of Minerva, Ohio provides Bridge Loan Financing for land closing the final development of the capital & subscription call and Industrial Revenue Bond sale.
- 3/15/2005 The Ohio EPA, Southern Ohio District Office and Central Ohio Office, delivers PTI / PTO permits to install a 20-million-gallon ethanol facility to Farmers' Ethanol LLC / Harrison Ethanol LLC for: a) air permit, b) storm water permit, and c) National Pollutant Discharge Elimination System permit.
- 2/25/2005 Harrison Ethanol LLC purchases 276.78 acres from CONSOL Energy in Harrison County, Ohio. With accompanying 84 acres of water rights to CONSOL fresh water lake adjacent to the 276.67 acres. Deed recorded in Harrison County Courthouse.
- 2/16/2005 The Department of the Treasury, Internal Revenue Service, issues a "Letter of Determination" stating that Make-A-Legacy Foundation is retroactively approved from September 12th, 2003, as a 501(c)(3) Public Charitable Foundation operating for the benefit of rural agricultural producers for bio-refinery technology transfer, continuing educational needs, and economic implementation tools.

**2004**

- 1/9/2004 The Ohio EPA, Southern Ohio District Office and Central Ohio Office, issue draft PTI / PTO permits to Farmers' Ethanol LLC and to Harrison Ethanol LLC's as the operating unit for: a) air permit, b) storm water permit, and c) National Pollutant Discharge Elimination System permit.
- 12/7/2004 Ohio Department of Agriculture issues the final Permit to Install and Permit to Operate (PTI/PTO) Harrison Ethanol LLC's 12,800 animal unit CAFO/MCAFF operations in Harrison County.
- 11/23/2004 Southern Ohio Agriculture and Community Development Foundation approves a \$1,000,000 Grant to Pike Ethanol LLC for the purchase of land for the construction of a bio-refinery facility in any approved tobacco county in Southern Ohio. Grant agreement is executed on February 8th, 2005.
- 11/15/2004 Ohio Department of Agriculture conducts a Public Information Meeting about Harrison Ethanol LLC operations in Harrison County. No significant public response is received. The final Permit to Install and Permit to Operate (PTI/PTO) will be issued after December 2nd, 2004.
- 9/7/2004 Farmers' Ethanol joins Ohio Governor Bob Taft on the International Trade Mission to Tokyo, Japan and Taipei, Taiwan. Governor Taft is introduced to our first Japanese investor company at the American Embassy in Tokyo. Separately from the Trade Mission, Farmers' Ethanol continues to Hong Kong, China to meet additional Asian investors.

- 8/25/2004 Ohio EPA issues public notice publication authority for combined NPDES & CAFO & Ethanol PTI/PTO permit number Ø-I-K-ØØØØ11 effective Aug 25th, 2004. 30-day public notice is completed Oct 1st, 2004 with no challenges to permit.
- 8/6/2004 Farmers' Ethanol LLC, by its Manager Members, receives operational licenses for Certified Livestock Managers of a 12,800 Animal Unit (AU) Confined Animal Feeding Operation (CAFO).
- 8/3/2004 Farmers' Ethanol submits the 4 final engineering applications for National Pollutant Discharge Elimination Systems (NPDES) Permit for Harrison Ethanol LLC to the Ohio Environmental Protection Agency and Ohio Department of Agriculture for: a) Permit to Install, and b) Permit to Operate (PTO) a base 15-million-gallon up to 26-million-gallon fuel grade ethanol facility and a 12,800 Animal Unit (AU) Confined Animal Feeding Operation (CAFO).
- 6/16/2004 Farmers' Ethanol submits an administrative and engineering application for a Permit to Install (PTI) and a Permit to Operate (PTO) a 12,800 Animal Unit (AU) Confined Animal Feeding Operation (CAFO) to the Ohio Department of Agriculture.
- 4/30/2004 Farmers' Ethanol officially accepts an Invitation to join Ohio Governor Bob Taft on the International Trade Mission to Tokyo, Japan, and Taipei, Taiwan. Separately, Farmers' Ethanol will continue to Hong Kong, China to meet additional Asian investors.
- 4/8/2004 The Environmental Protection Agency acknowledged Farmers' Ethanol LLC fbo Harrison Ethanol LLC EPA "Permit to Install (Air)" as technically complete and has forwarded the PTI (Air) to Central Office with recommendation for final processing and Permit Issuance.
- 3/2/2004 EPA determines the technical correctness of the "Fuel Grade Ethanol Production Facility - Permit to Install" application and appropriateness to transfer the PTI for issuance by the Central Office. A Letter of Determination for public hearing will be issued.

**2003**

- 9/10/2003 Farmers' Ethanol LLC, for the benefit of Harrison Ethanol LLC as the operating subsidiary, submits its 'Fuel Grade Ethanol Production Facility' application to the EPA for a "Permit to Install". EPA acknowledges application completeness September 23rd, 2003.
- 8/25/2003 The USDA announced 3 separate \$500,000 cash awards for renewable energy system grants for: \$500,000 to Harrison Ethanol LLC, \$500,000 to Central Ethanol LLC, and \$500,000 to Pike Ethanol LLC.
- 1/27/2003 Agreement to purchase 293 acres with 84 acres of water rights from Consolidated Coal Company executed; Phase I EPA Environmental Survey is completed. Remedial

survey for permitting is designed. Harrison Ethanol LLC purchases 276 acres with 84 acres of water rights from CONSOL Energy February 25th, 2005

## **2002**

10/31/2002 A "Letter Determining Eligibility" was issued by the USDA stating that each of the chosen sites is "eligible" for USDA guarantees; \$75,000,000 in three separate \$25,000,000 increments

7/12/2002 Farmers' Ethanol LLC is registered to do business in the State of Ohio, Secretary of State, Charter Number 1329430, all three of the wholly owned operating subsidiaries are subsequently registered under Ohio Charters 1374506 for Harrison Ethanol LLC (Harrison County), 1368270 for Central Ethanol LLC (Perry County) and 1368270 for Pike Ethanol LLC (Pike County).

## **2001**

9-15-2001 The Agri-Energy concept is created to increase independence from imported oil. Initial legal requirements are established. Equity Funding acquired.

9-11-2001 Terrorists attack the United States of America.