



# Alcohol / Bioethanol Projects In Europe



## Praj in Europe

Praj has completed a decade in Europe with more than 20 references. Praj has many marquee customers within Europe. Praj has provided technology and key equipment to fuel ethanol, pharmaceutical alcohol, beverage ethanol, industrial ethanol plants in UK, Poland, Belgium, Hungary, Germany, Finland, etc.

### British Sugar Plc, UK

Praj Industries commissioned UK's first Bioethanol plant in 2007. This plant has been producing more than 72 MLPY Ethanol from Beet thick juice at Wissington, Norfolk.

### Anklam Bioethanol GmbH, Germany (a Company of Suiker Unie, Netherlands)

The 60 MLPY (expandable to 77 MLPY) Bioethanol plant based on Sugar Beet thick juice has been commissioned and operating successfully since January 2009.

### Biowanze SA, Belgium

Biowanze SA, a subsidiary of CropEnergies AG (a Sudzucker Group Company) is using Praj technology for their 250 MLPY Bioethanol Complex at Wanze in Belgium. Wheat and Beet syrup are the feedstocks for Bioethanol production with a very low GHG footprint

### Hungrana Ltd., Hungary

Hungrana Ltd., Szabadegyháza (Hungary) is a 50-50% joint venture of Agrana International and Eaststarch (JV of Tate & Lyle and ADM). Praj has deployed EcoSmart™ technology to produce a high purity alcohol that fulfills very stringent quality specifications. Plant is designed to produce 40 MLPY industrial grade alcohol.

### Vivergo Fuels Ltd., UK

Vivergo Fuels is using Praj's technology for its 420 MLPY fuel ethanol plant at Saltend Hull, UK. This is UK's largest bioethanol plant based on Praj technology and design. This plant produces around 1/3 of the UK's current bioethanol demand

for petrol and is UK's largest single source supplier of animal feed. Vivergo Fuels has already gained International Sustainability and Carbon Certification (ISCC), certifying that the bioethanol plant and their business fully comply with the requirements of the EU Renewable Energy Directive. This greenfield biorefinery which operates on UK feed wheat is highly energy efficient with distillation, dehydration and evaporation integrated uniquely to reduce overall energy consumption.

### BGW Sp. z.o.o., Poland

BGW Sp. z.o.o. is one of the largest alcohol producers in Poland. BGW has selected Praj's EcoSmart™ technology to set up a new facility to produce 70 MLPY high quality Neutral Spirit based on cereals. Praj has licensed its recently patented EcoSmart™ technology with significantly lower energy and water footprint. Another key feature of the plant is that it will have flexibility to produce high quality Neutral Spirit or industrial grade Ethanol or fuel grade Ethanol depending upon the market situation. BGW will derive a significant boost to its competitive advantage by employing this innovative technology.



### PHP Wieslaw Wawrzyniak, Poland

AWW Group is specialized in the production of fuel grade bioethanol, rectified alcohol for food purposes, neutral alcohol for pharmaceutical purposes and many brands of distilled beverages.

Praj has been involved with the following 3 projects for AWW Group.

- Praj has supplied technology and key equipment for a 13 MLPY Extra Neutral Alcohol (ENA) plant based on cereals like Rye, Wheat and Corn. The plant has been operating successfully since December 2012.
- The 12 MLPY Molecular Sieve Dehydration Plant at Zbiersk near Kalisz in Poland is using Praj technology and design. The plant produces fuel grade ethanol from Raw Alcohol. The plant has been operating successfully since June 2014.
- Praj has licensed its technology to produce High Quality Neutral Ethanol with significantly lower energy and water foot print. Plant is designed to produce 17 MLPY of Neutral Ethanol from Rye. Neutral Ethanol will be used to produce AWW's brands of distilled beverages. The project is scheduled to go on stream in the summer of 2016.

### Zabice Distillery Sp.z.o.o, Poland

Zabice Distillery has selected Praj to install 4 MLPY High Quality Raw Spirit based on Corn as feedstock at Zabice in Poland. Biotechnika is a cooperating company in this project. The plant will produce high quality raw spirit or dehydrated ethanol. The scope includes license for technology, Basic Engineering and some equipment for High Quality Raw Spirit Distillation and Molecular Sieve Dehydration Plant.

### ATC Sp. z. o. o, Poland

ATC has selected Praj to install 7 MLPY High Quality Spirit (HQS) at Kobylanka in Poland. The plant will produce high quality spirit or dehydrated ethanol and extra neutral alcohol (ENA). The scope includes license for technology, Basic Engineering and some equipment with control systems for producing High Quality Spirit, Extra Neutral Alcohol and dehydrated ethanol Distillation.

### About Praj

With over 700 references in more than 75 countries, PRAJ is perhaps the only Company with extensive experience of installing plants based on variety of starch and sugar based feedstocks.

Be it a greenfield or brownfield project, value addition accrues through integration of technology, engineering of equipment & plants, manufacture and on-time project completion.

Ethanol plants are designed by PRAJ to meet GHG reduction and regulations, making Ethanol production sustainable.

Backed by dedicated process design, basic & detailed engineering and project management resources; multi-location manufacturing facilities (including two near a Sea port); the largest resource base of professionals and an extensive sales and marketing network across geographies, we have been offering a variety of cutting edge solutions over three decades.

Health, safety and environmental factors are taken into account right from design to manufacture and operational stages of the plant.



## Praj Worldwide

India | Thailand | UAE | USA



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