Enogen Corn
Enzyme Technology

Creating value for corn growers, ethanol plants and local communities
A win-win-win scenario

**Enogen® corn enzyme technology** is an in-seed innovation available from Syngenta and features the first biotech corn output trait designed specifically to enhance ethanol production. Enogen creates a win-win-win scenario by adding value for ethanol plants, corn growers and rural communities.

Enogen growers are eligible to earn up to a 40-cent-per-bushel premium for grain delivered to the ethanol plant. This can mean approximately $2.2 million for a community served by a 100-million-gallon plant. Growers access Enogen corn enzyme technology through a technology license with Syngenta and a production contract with an Enogen-licensed ethanol plant, or ethanol plant grain partner.

Be an enzyme supplier for your local ethanol plant

Syngenta is currently contracting Enogen to support a growing number of ethanol plants with plans to continue to expand the footprint for this innovative technology. Enogen is rapidly gaining popularity because of the value it delivers and the opportunity it provides corn growers to be enzyme suppliers for their local ethanol plants.
To grow Enogen corn, you can use your existing cultural farming practices (subject to applicable stewardship requirements), including nutrient, insect and disease management programs. Enogen hybrids have proven, high-yielding genetics with breakthrough traits. And, numerous trials have shown that Enogen hybrids perform equal to or better than other high-performing corn hybrids.¹

**Making ethanol more sustainable²**

In a 100-million gallon plant, Enogen corn-enabled efficiency improvements can save:

» More than 68 million gallons of water
» Nearly 10 million KWh of electricity
» More than 350 billion BTUs of natural gas while reducing carbon dioxide emissions by more than 100 million pounds

**GrowMore360: An online contracting, stewardship and inventory system**

GrowMore360™ is an online system for Enogen grain contract management that enables Enogen corn growers to manage their grain contracts and stewardship obligations.

» Helps growers manage stewardship activities electronically
» Includes a GPS mapping tool for fields, border rows, Enogen capacity and location of storage systems
» Plans even distribution of the delivery of grain to the plant
» Helps plants with inventory management
» Forecasts premium payments on delivery
» Assists growers in coordinating the status of their production contracts with their local ethanol plant, Enogen reseller and Syngenta
Ethanol producer becomes an Enogen licensee.

Grower contracts with ethanol plant to grow Enogen corn and sell it to the ethanol plant.

Grower purchases seeds with Enogen corn enzyme technology.

Grower plants, grows and harvests Enogen corn, complying with on-farm storage and other stewardship requirements.
Enogen grain is delivered to the ethanol plant within the designated timeframe and is tested for presence of alpha amylase enzyme. Grower receives a premium for Enogen grain, per contract terms.

Enogen grain is metered into the dry grind ethanol process along with regular feedstock.

Ethanol producers may benefit from increased efficiency and reduced costs. Growers have the potential to profit from the premium earned.
The bottom line

Enogen corn enzyme technology creates increased profit potential for corn growers and ethanol producers while adding significant incremental value at the local level for communities that rely on their ethanol plant’s success.
Earth-friendly American ethanol: A true success story

Ethanol is helping America reduce its dependence on foreign oil, lowering prices at the pump, improving the environment with lower emissions and growing the economy with jobs that can’t be outsourced. Looking ahead, retail partnerships and new technologies are seen as keys to the ethanol industry’s future success.

To help fund that future, Syngenta supports the Prime the Pump Fund. Prime the Pump is an ethanol industry initiative created to help early retail adopters of high-level ethanol blends by awarding grants to reduce their initial investment in infrastructure and help make these blends more available.

Syngenta is also working with Galva, Iowa-based Cellulosic Ethanol Technologies, LLC, to make cellulosic ethanol a reality through the commercialization of Cellerate™ Process Technology. If adopted by all U.S. dry grind ethanol plants, this technology could help generate an additional 1.5 billion gallons of ethanol per year – all from the same amount of corn. Cellerate enables the production of more ethanol from the same kernel of corn.

Syngenta is proud to support and promote corn ethanol production.
We believe in ethanol.