

Biofuels Center of North Carolina

biofuelscenter.org

10% in 10 Years

600,000,000 GPY

NINE STRATEGIES

In 2006, the North Carolina General Assembly mandated the state's long-term policy commitment to biofuels in *North Carolina's Strategic Plan for Biofuels Leadership*. Nine realistic strategies combine bold vision with the practical framework needed to shape this 10-15 year endeavor.

Strategy 1 • By 2017, 10% of liquid fuels sold in NC will be locally grown and produced

Strategy 2 • The Biofuels Center will provide leadership in developing the biofuels sector

Strategy 3 • Maximize economic and rural development through sustained policy

Strategy 4 • Create a new statewide industry and economic sector; and, regional leadership for NC within that industry

Strategy 5 • Create a plan to successfully connect feedstock growers with biofuels producers

Strategy 6 • Accelerate effective science, research, and development capabilities

Strategy 7 • Establish a nationally-unique Advanced Biofuels Acceleration Facility

Strategy 8 • Develop a skilled workforce and advance public commitment to local biofuels

Strategy 9 • Identify and implement appropriate and targeted incentives to catalyze the new industry sector

THE TASK IS LONG-TERM AND LARGE

To develop a new industry and meet the goal of 600,000,000 GPY of liquid fuels, public and private parties must partner to address key stages and needs. Resources and capabilities must be strengthened or developed new.

Societal Need

North Carolina uses over 5.5 billion gallons of liquid fuel annually, at ever increasing cost to consumers. The state is totally dependent on imports with no benefit to North Carolina's agricultural or manufacturing community, and neither is national security well served by reliance on external fuel sources.

The Biofuels Center is implementing North Carolina's cohesive, deliberate, and accelerated approach to build a large sustainable industry statewide.

Science & Research

Innovative and targeted research at universities statewide provides the foundation for new feedstocks and production technologies. Biotechnology will prove key, as will rapid commercialization and application of discoveries.

The Biofuels Center funds research and accelerates discoveries to fields, farmers, forests, and production.

New Feedstocks

North Carolina has the capability to grow varied feedstocks in different regions. 48,000 farms, 17 million acres of trees, and marginal land provide a rich tapestry for sustained biomass production that augments, rather than replaces, other crops.

The Biofuels Center is helping to identify varied crops and biomass in different regions for conversion to fuels. Center funding and projects supporting trial growing are developing agronomic data. This data will build mutually beneficial business models for farmers and producers, leading to economic gain.

Logistics

The massive tonnages of biomass needed by the biofuels industry creates new challenges in harvesting, transportation, storage, and pre-processing.

The Biofuels Center is working with agriculture and industry to develop practical solutions that can be implemented in a cost effective manner.

Production

Meeting the goal of 600 million gallons requires, across North Carolina, a number of large-scale production facilities, as well as regional facilities drawing on biomass from nearby. Biochemical and thermochemical technologies will be employed, along with others still being developed.

The Biofuels Center is helping to attract and grow companies. The Center is strengthening the policy and resources needed to achieve the 10% in 10 years' goal.

Distribution

Unprecedented new partnerships will be required between the petroleum industry, jobbers and distributors to facilitate efficient blending and distribution of locally-produced biofuels.

The Biofuels Center is convening the various interests and parties to help build partnerships, develop infrastructure and problem-solve.

Public & Policy

A long-term and large biofuels endeavor will have enormous impact on many aspects of society. Attention must be paid to regulatory and legislative policy, to environmental and economic impacts, to societal and international implications, and to public engagement.

The Biofuels Center, by mandate and approach, serves as focal point to address issues and implications. Informing and educating the public builds excitement and momentum for this beneficial new sector.

Consumers

Widespread local support and interest precede consumer decisions to purchase biofuels, and over time to change behaviors and decisions.

The Biofuels Center shapes programs and goals around the clear recognition that filling up with North Carolina biofuels allows citizens to power not just their vehicles, but also the state's economy in every county.