

Unified Construction Model

Introduction:

Destiny USA's founder and visionary Robert J. Congel has launched a project using a **Unified Construction Model** that will show how developers can use renewable resources and advanced technology, not only to improve construction efficiency but to fight the nation's addiction to fossil fuels. The key components to the **Unified Construction Model** include:

A First of Its Kind Innovator Model:

All members of the Destiny USA workforce are called "Innovators." Our demographics consist of 85 members; of whom, 57% are minorities and 40% are women. Prior to joining Destiny USA, many of our Innovators were either unemployed or "underemployed." Seventy-three percent of our Innovators came directly from the community that our project is being built.

All of our Innovators hold identical titles and receive essentially the same base compensation package; regardless of their experience or education levels. Each Innovator has received a baseline training which consisted of a two-week "on-boarding" and enculturation program; followed by a 10 hour OSHA Safety course, an eighty hour NCCER National Construction Education course, an adult CPR and First Aid course, and either a 24 hour or 40 hour Hazwopper course. Some innovators were chosen to go through a welding course and have since become certified as welders. To date, our record shows a 100% pass rate on all training and the Innovators hold positions ranging from general laborers to specialists, supervisors and foremen.

This Innovator Model offers an immediate solution to reducing the nation's unemployment rate; which suffers from the loss of jobs to overseas markets, by employing local residents who need only to possess instinct and desire in order to find a job in the construction industry. The Innovator Model offers the construction industry at large a simple means to replenishing its aging workforce with young adults who are eager to learn new skills and contribute to society.

B100 - Biodiesel

Destiny USA immediately began using biodiesel when construction commenced in March 2007. The Destiny USA biodiesel initiative came to fruition through collaborative efforts over the past two years among construction partners, equipment providers, engine manufacturers, and others to use alternative energy sources on the jobsite; and to overcome the B20 limitations within the manufacturer's engine warranties. As of February 26, 2008, Destiny USA has used over 142,000 gallons of bio-fuel in over 100 pieces of equipment; and more than 60,000 gallons of **B100**, which is the goal for year-round use. We are committed towards providing a healthier, cleaner and more sustainable environment for our community while helping our country to break our nation's dependence upon fossil fuels and foreign oil.

Paperless Jobsite:

Destiny USA's paperless initiative combined with a paperless 3D system commitment has moved the project towards digital collaboration and this is an innovation in the construction world. Our move to a paperless jobsite reflects a significant cost and resource savings, minimizes rework, shows gains in document control efficiency, and promotes faster decisions and execution through a higher level of technological collaboration and better communication among the owner, the construction manager, prime contractors, architects, engineers, consultants, and the Innovators. Robert Congel insisted that the paperless jobsite initiative be used throughout the project by all the project participants to show how future developers can utilize advanced technology to significantly improve construction efficiency.

Destiny USA Unified Workforce Model



Destiny USA Biodiesel Truck



Destiny USA Innovator Work Force Model



Destiny USA Innovators working with contracting partners on-site in Syracuse, NY.

GREEN FUEL DRIVES CONSTRUCTION



ROGER HILL, of Baldwinsville, fills a construction vehicle with biodiesel fuel at the Carousel Center expansion project near Hiawatha Boulevard and Spencer Street. Hill works for AP Reale and Son. The fuel is a mix of soybean oil and petroleum-based diesel fuel. More than 12,500 gallons have been used on the project since March 26.

Carousel Center contractor's rigs have 20 percent soybean-based fuel in their tanks

By Rick Moriarty Staff writer

Quick, what's the most noticeable feature of a diesel engine? That's right. The smell. Diesels generally are more fuel-efficient than regular gasoline engines, but they have a major drawback: They stink.

Put a lot of diesel-powered construction vehicles in one area, and you'll make a big stink. You'll also be pumping a lot of pollutants into the air, because diesels typically emit high levels of soot, nitrogen compounds and other bad stuff.

That might not be the case at the site of the Carousel Center expansion, however.

Destiny USA, the company behind the mall expansion, is using cleaner-burning biodiesel fuel to power the dump trucks, front-end loaders and earth rotors being used to build auxiliary parking lots south of Hiawatha Boulevard.

The fuel also will be used in construction vehicles when the 1.3 million-square-foot mall addition goes up.

The fuel is a mix of soybean oil and petroleum-based diesel fuel. When the work started last month, the vehicles used B10 biodiesel — 10 percent soybean-based fuel and 90 percent petroleum-based.

Last week, the company switched to B20 — which contains 20 percent soybean-based fuel — after getting the go-ahead from the contractors operating the equipment. The vendors leasing the vehicles and their manufacturers. The fuel is supplied by Ascent Aviation Group Inc. of Parish.

Destiny executive David Aitken said the company hopes to gradually increase the percentage of soybean-based fuel until the fuel contains no petroleum diesel at all. That's called B100.

Biodiesel can be made from many agricultural products, not just soybeans. In fact, the inventor of the diesel, German inventor Rudolph Diesel, designed it to run on peanut oil. Most diesels were powered by vegetable oil until the 1920s.

One of the big advantages to using 100 percent biodiesel is that it gives off practically no smell. And unlike fossil fuels, biodiesel is a renewable energy source because it's made from crops.

It also significantly reduces air pollution, according to the National Biodiesel Board, the trade organization that represents the biodiesel industry.

Walter Magpas, director of the division of environmental planning and protection for the Environmental Protection Agency's regional office in New York City, said a 20 percent blend of biodiesel cuts greenhouse gas emissions from diesel engines by at least 10 percent. Those powered by 100 percent biodiesel cut emissions by at least 50 percent, he said.

A growing market
Biodiesel sales are rising rapidly.

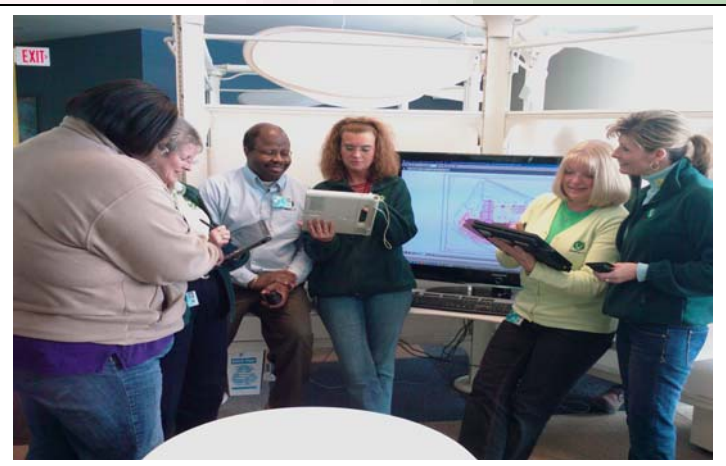
AT LEFT, B100 is a fuel made entirely from soybean oil. At right is a petroleum-based diesel fuel.

ESTIMATED BIODIESEL SALES IN THE UNITED STATES IN MILLIONS

Year	Estimated Sales (Millions)
1999	0
2000	0
2001	0
2002	0
2003	0
2004	0
2005	0
2006	0
2007	0
2008	250

Source: National Biodiesel Board

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Hand held tablets, slates, cellular phones, and large screen monitors are all part of the technology used on the paperless jobsite.

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