



**Destiny USA**  
**Environmental Assessment:**  
**MOU SemiAnnual Report**  
**January 24, 2012**



**Environmental Protection Agency**  
**Region 2**

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## Accomplishments

Reductions of 65,699 MTCO<sub>2</sub>e



## Memorandum of Understanding

On September 25, 2006, Destiny USA signed a Memorandum of Understanding (MOU) pledging to become an environmental steward by implementing a number of green initiatives that would reduce its carbon footprint and further improve our planet's environment. This partnership with the United States Environmental Protection Agency (EPA) and Destiny USA has resulted in reducing energy, water and solid waste production across their entire operations.

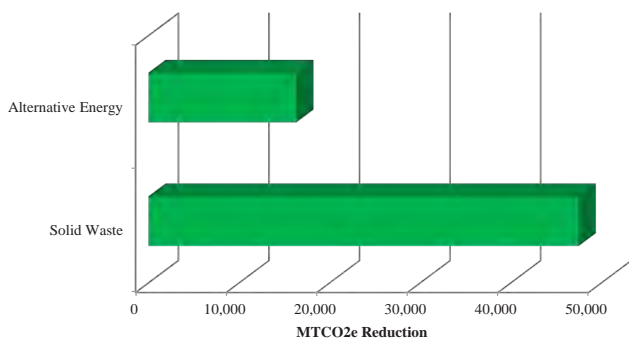
## Reduction in Environmental Footprint

This is the first update Destiny USA has provided documenting its green initiatives. The EPA has analyzed the submitted information and generated an environmental footprint. Due to the progressive green efforts of the organization, Destiny USA has managed to reduce its carbon footprint by 65,699 MTCO<sub>2</sub>e\*.

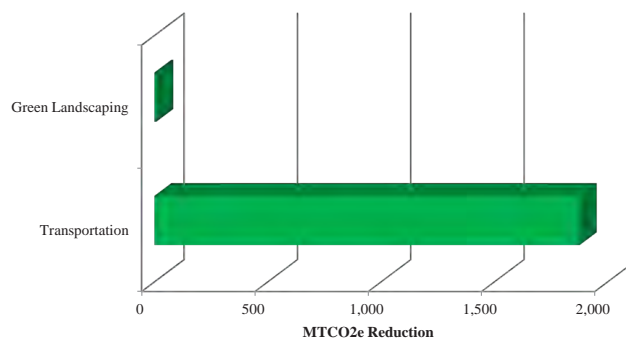
\*Metric Ton Carbon Dioxide Equivalent

Environmental Metrics	Total Sector (MTCO <sub>2</sub> e)
Solid Waste	47,490.0
Alternative Energy	16,324.4
Transportation	1,876.8
Green Landscaping	8.3
Total (MTCO <sub>2</sub> e)	65,699.5

Primary Initiatives



Secondary Initiatives



## Measurement and Continuous Improvements

EPA uses these environmental conversion models to calculate metric tons of carbon dioxide equivalents:

Greenhouse Gas Equivalencies (GHG) Calculator converts GHG reductions into scenarios that can be easily communicated to the public.

eGRID Version 1.1 (2007) which converts standard metrics for electricity, green energy, fuel use, chemical use, water use, and sustainable materials management into MTCO<sub>2</sub>e.

The EPA WARM Model which helps calculate GHG emission reductions from several different waste management practices, including source reduction, recycling, combustion, composting and landfilling.

The EPA Pollution Prevention (P2) Cost Calculator that estimates cost savings associated with GHG reductions.

Certain environmental data points cannot be converted to MTCO<sub>2</sub>e because scientific models do not currently exist.

As methodologies improve, environmental assessments will be updated to include any new GHG reduction estimates.

## Accomplishments

Reductions of 65,699 MTCO<sub>2</sub>e

### Greenhouse Gas Equivalencies

What does the reduction of 65,699 MTCO<sub>2</sub>e represent ?  
The organization's effort is equivalent to any one of the following:

- Annual greenhouse gas emissions from 12,882 vehicles



- Carbon dioxide emissions from 7,365,415 gallons of gasoline



- Carbon dioxide emissions from 152,790 barrels of oil consumed



- Carbon dioxide emissions from the energy use of 5,688 homes for one year



- Carbon dioxide emissions from 2,737,479 propane tanks used for home barbeques



- Carbon dioxide emissions from gasoline carried by 867 tanker trucks



- Carbon dioxide emissions from burning 358 railcars' worth of coal (over 5.4 miles long)





Environmental Metrics	Sep 2006 MOU	Dec 2011 Update	Total Conversion (MTCO2e)
<b>Energy Conservation/Energy Star</b>			
<b>Total Savings (MTCO2e)</b>			<b>0.0</b>
Miscellaneous Energy Conservation			
Web Based Energy Competition			
Motors and Transformers			
Lighting Project Fixtures (bulbs and ballast)			
High Temp Hot Water Pipe Replacement			
HVAC, Chiller & Electrical			
Bulb Replacement (CFLs, LEDs)			
Gas / Fuel Oil / Steam Savings			
<b>Alternative Energy</b>			
<b>Total Savings (MTCO2e)</b>		<b>16,324.4</b>	<b>16,324.4</b>
On-Site Solar / Wind / Geothermal			
On-Site Combined Heat and Power			
Purchase of Green Energy/Green Power		26,000,000 kwh	16,324.4
<b>Water Conservation/WaterSense</b>			
<b>Total Savings (MTCO2e)</b>			<b>0.0</b>
Miscellaneous Water Conservation			
Low Flow/Hands Free Faucets			
Low Flow Toilets / Shower Heads / Urinals			
Waterless Urinals			
<b>Solid Waste/Industrial Materials Reuse/Green Products</b>			
<b>Total Savings (MTCO2e)</b>		<b>47,490.0</b>	<b>47,490.0</b>
Mixed Recyclables (includes Wastewise)			
Re-Use/Purchase of Materials with Recycled Content			
Pallets Waste Avoided / Wood Recycled			
Use of Recycled Steel / Iron during Construction		23,000 tons	41,400.0
Use of Recycled Plastic / Aluminum during Construction			
Use of Recycled Concrete / Asphalt during Construction			
Use of Coal Combustion Products			
Steel Recycled Offsite during Deconstruction			
Concrete / Asphalt Recycled			
Recycled C&D Waste (construction waste)			
Cardboard (construction/non-construction/sharp containers)			
Mixed Metal (construction/non-construction)			
Paper, Mixed			
Plastic, Mixed (bottles,construction/non-construction,sharp containers)			
Can / Bottle Recycling			
Mixed Organics			
Food Donation (Waste diversion)			
Biosolids and Food Waste Recycling / Composting			
Fluorescent Bulbs			
Ceiling Tiles Recycled			
Carpet Recycled			
Waste Oil Recycled			
Magazines / Third Class Mail			
Newspapers			
Office Paper			
Phonebooks			
Textbooks			
Dimensional Lumber			
Fly Ash		7,000 tons	6,090.0
Aluminum Cans			





2011

## **Destiny USA Additional Green MOU Accomplishments**

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Over the past 12 months, Destiny USA has completed construction on the core and shell of the building and reached new heights in achieving LEED Gold certification. The final submittal is currently under review by the U.S. Green Building Council's certification arm, the Green Building Certification (GBCI). Destiny USA will continue integrating new and innovative green initiatives into development in an effort to advance the largest LEED Gold certified commercial building in the United States.

Destiny USA took an additional step beyond achieving LEED Gold certification with the core and shell of the expansion - it is requiring all tenants within the facility to achieve LEED certification as well. Many tenants have already joined the LEED registration and certification process with the help of Destiny USA. This entire process will expose hundreds of tenant designers, architects, engineers, material suppliers and contractors to the ever-growing phenomenon that is green building. Some tenants have already adopted these initiatives and instilled them into their business philosophy.

In September 2010, Destiny USA installed an urban wind turbine demonstration project on the roof of Carousel Center and the expansion. This was the first demonstration project of its kind in the City of Syracuse.

In 2011, Destiny USA installed electric car charging stations in various parking lots at the site. Destiny USA is proud to announce that there are now 9 charging stations; 6 are located in the underground parking garages, and 3 are located in a satellite parking lot on Solar Street. They were put in place in September 2011 and are fully functioning.

Green technology and development is changing every day. Destiny USA looks forward to examining other initiatives that it can implement.