

DC BIOFUELS

**CLEAN AIR & Biodiesel: An Urban Fleet Compliance  
Solution for the Metropolitan Area Council of Gov'ts.  
October 18, 2012**



# The DC Biofuels Concept

- Recycle used animal fats, vegetable oils, & greases (FOG) from urban waste streams
- Produce “clean & green” drop-in biodiesel for centrally-fueled public & private fleets
- Blend, supply and distribute biodiesel locally
- Create new sustainable economic activity & “green collar” employment in the region



# The DC Biofuels Concept

The DC Biofuels' state-of-the-art BQ9000 certified production facility will use multiple FOG feedstocks, producing high-quality biodiesel (ASTM D 6751).

The facility will blend biodiesel with Ultra Low Sulfur Diesel (ULSD) meeting ASTM D 975 specifications.

The finished blend will be treated with NOx-reducing & other performance-enhancing additives.



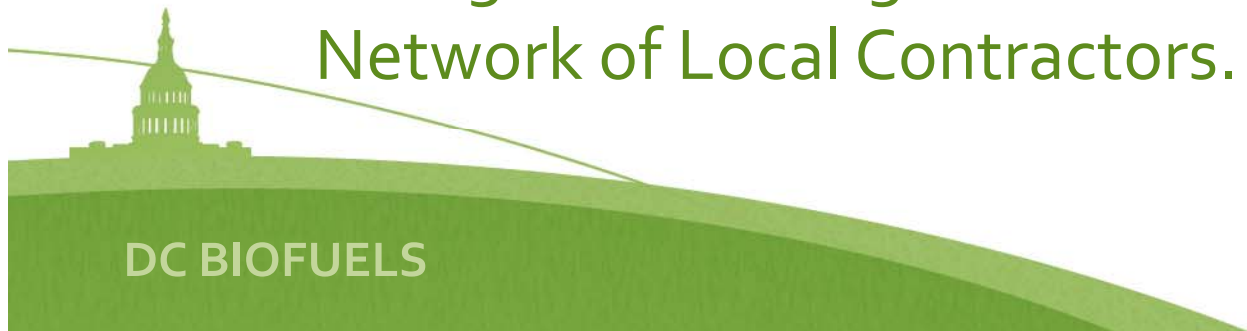
# The DC Biofuels Concept

An Estimated 3 billion gals./yr. of FOGs Are Generated in the U.S., Enough to Displace 5 – 6% of All Diesel Fuel Consumed Annually.

An Estimated ~30 million gals./year of FOG is Available in the NCR, the 3<sup>rd</sup> Largest Metro Area in the U.S.

There are Approximately 10,000 Restaurants & Other Institutions in the NCR Generating FOGs.

DCB Has Begun Collecting FOG in the NCR Through Network of Local Contractors.



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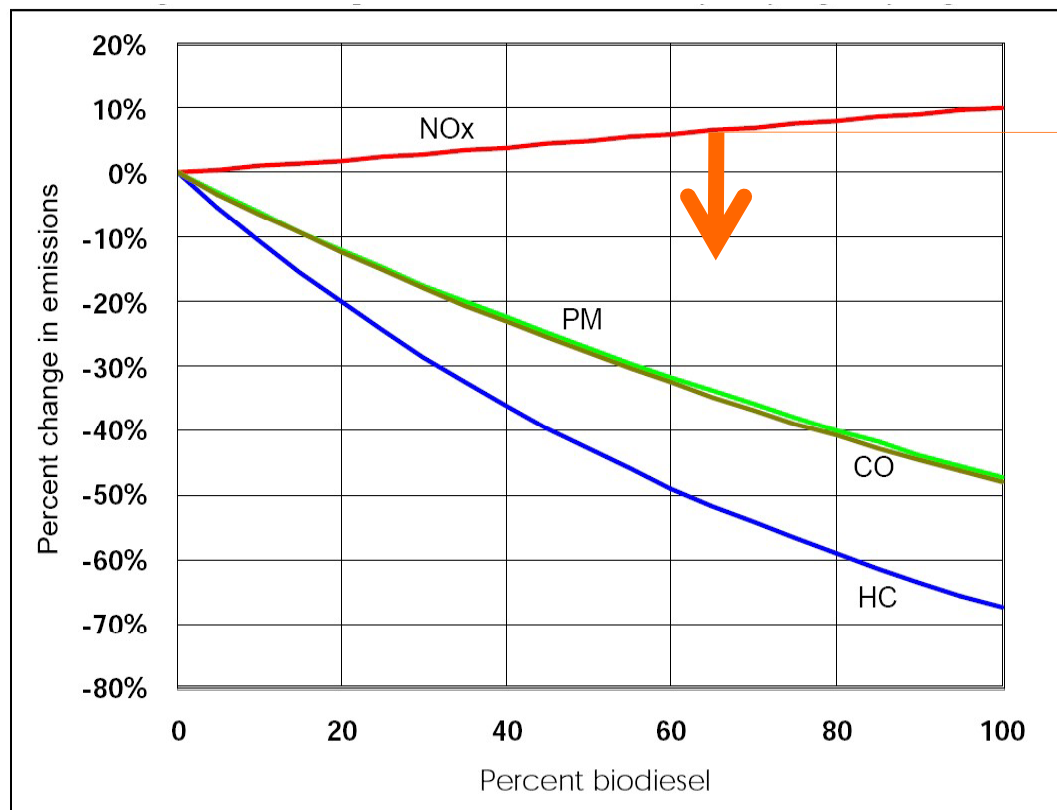
DCB Will Produce 7.5 million gals./yr. of Highest Quality Biodiesel From Local FOG Supplies.

The Plant Will Use State-of-the-Art Process Technology Provided by GHP Biodiesel, GmbH of Germany.

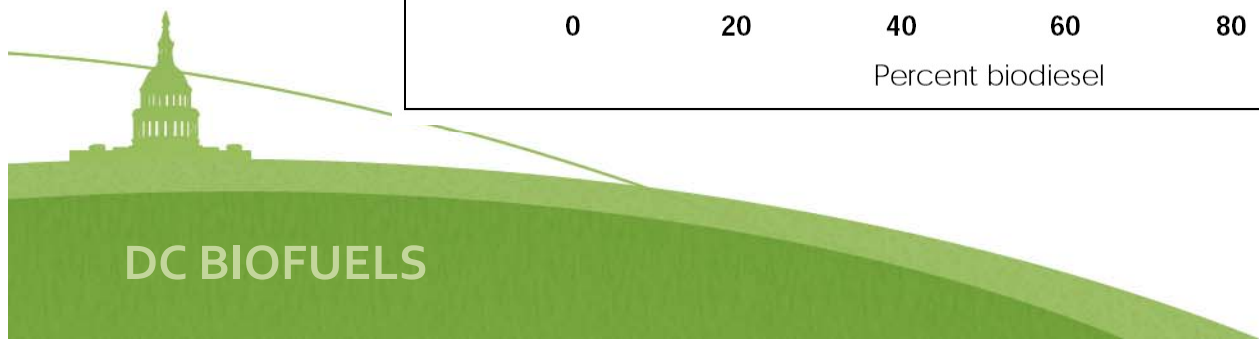
The Plant Will Be Located in a Highly Suitable One Acre Site in Northeast Washington, DC.



# DCB's Biodiesel is "Cleaner & Greener"



With DCB's  
NOx-Reducing  
Fuel  
Additive



# Comparative Biofuel GHG Emission Reductions

Fuel Pathway	100 year, 2% Discount Rate	30 year, 0% Discount Rate
Corn Ethanol (Best Case Natural Gas Dry Mill)	-39%	-18%
Corn Ethanol (Coal Dry Mill)	+13%	+34%
Corn Ethanol (Biomass Dry Mill)	-39%	-18%
Soy-Based Biodiesel	-22%	+4%
<b>Waste Grease-Based Biodiesel</b>	<b>-80%</b>	<b>-80%</b>
Sugarcane Ethanol	-44%	-26%
Switchgrass Ethanol	-128%	-124%
Corn Stover Ethanol	-115%	-116%

Source: EPA Lifecycle Analysis  
of Renewable Fuels (2009)

# Other FOG-Based Biodiesel Benefits

- Does Not Compete with Food Supply.
- Considered an “Advanced Renewable Fuel” Under EPA’s RFS-2 Standard.
- Eligible for Applicable Gov’t. Incentives.
- Most Cost-Effective EPEAT & Presidential Alt. Fuel Memorandum Compliance Strategy.
- An Easy, Drop-In Fleet Fuel Solution.





# DCB's Local Advantage

- Close to Substantial Feedstock Supplies & Large Federal, State, City & Private Fleet Customers.
- Low Transportation & Supply Chain Costs.
- Washington Area "Homegrown" & Sustainable Transportation Fuel Source.
- No Nearby Competition From Other Producers.



# DC Biofuels is Operational

- Prepared to Launch Fleet Demonstration Projects with NCR Agencies Now.
- Able to Supply Biodiesel Blends Now.
- Area FOG Collection Operations Underway Now.
- Currently in Pre-Construction Operation.



# DC Biofuels' Benefits to MWCOG & the National Capital Region

- Cleaner Air & Cost-Effective GHG Control.
- Price Certainty in a Volatile Petroleum Market.
- Reliable, Local Producer & Biofuels Supplier.
- “Cleanest & Greenest” B20 Available in NCR.
- Real Urban “Green Collar” Jobs & Training.
- Makes NCR Transit Agencies & Governments National Energy Leaders.



# DCB & MWCOCG

- FOG Feedstock Source Collection Opportunity.
- Large Fleet Refueling Potential (100%).
- EPACT & Other Mandate Compliance.
- NCR Sustainability Leadership.
- Full Integration with MWCOCG Members, etc..
- National Model for Public-Private Cooperation.
- Federal-State-Local Clean Air Solution!



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