Presentation to the Air and Climate Public Advisory Committee

June 17, 2019

Ira H. Dorfman

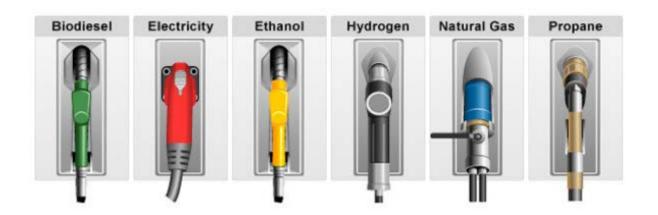
Executive Director



One of approximately 90 Clean Cities Coalitions designated by the US Department of Energy

Primary objective is to promote the use of domestic, clean transportation fuels other than gasoline and diesel fuel





Key Stakeholders include:



Working with the Federal Highway Administration, DDOT and MDOT on Alternative Fuels Corridors to increase the number of EV stations along the DMV's major highways. Good signage too.



National Electric Vehicle Charging Corridors

2019 Designation of NY Avenue and DC295;

Rhode Island Ave. (US 1) Next Designation Target

ALTERNATIVE FUELS CORRIDOR



Expand Available Charging Sites for EV Taxis, Uber and Lyft



Electric Vehicle Charging Infrastructure to Support Ride Share Community









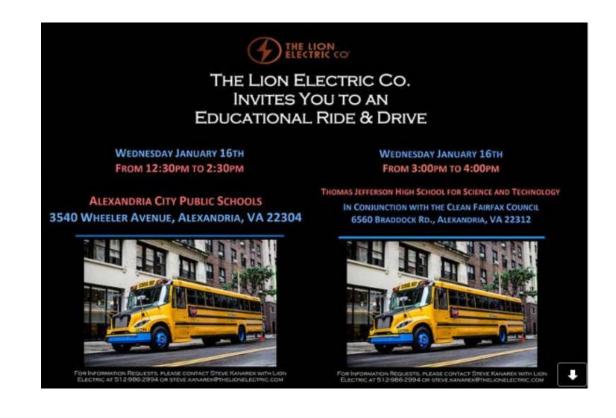


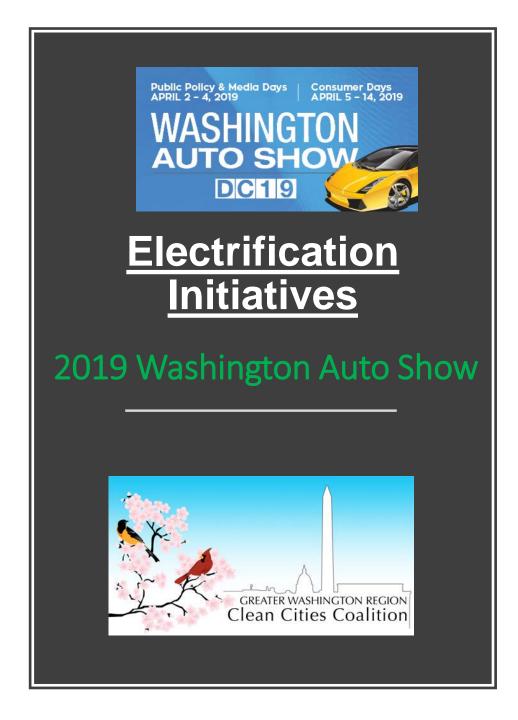


School Buses



Providing School Districts with the Information Necessary to Make Prudent Procurement Decisions





Providing Consumer Education about EV Choices Available



https://vimeo.com/twogentsdigital/review/332491220/576d6b197a



Off-Road Electrification

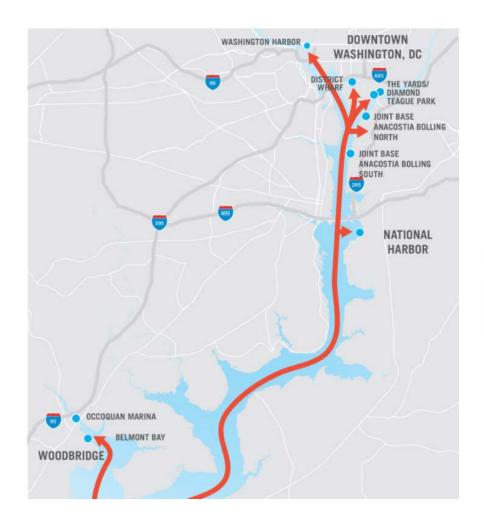


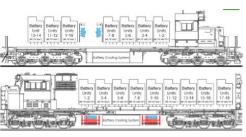
Rail and Marine Opportunities



ABOUT GET INVOLVED

NEWS AND P





Circulator Bus



Educating Transit Agencies



DC Circulator Electric Bus and Charging Facility Tour Agenda

March 26, 2019 9:30 am – 2:00 pm

COG Third Floor Board Room 777 North Capitol Street NE, Ste. 300 Washington, DC

- 9:30 AM: Registration/Continental Breakfast
- 10:00 AM Welcoming, Opening Remarks and Agenda Review:
 - Leah Boggs welcoming on behalf of MWCOG
 - o Ira Dorfman makes brief remarks and introduces DDOT's Carla Longshore
 - o A member of the DDOT team provides an overview of the agenda then introduces speakers
- 10:15 AM -Circe Torruellas: genesis of the electric bus program
 - Introduction to DC Circulator
 - Genesis of the electric bus program
 - Process for bus selection and purchase
 - Project plan and procurement
 - Purchase plans
 - Outreach to Proterra customers
 - Research
 - Charging Facility Identification and Construction
 - Selection process of a charging facility
 - Operational constraints
 - Construction process
 - Challenges





Upcoming Events



Upcoming EV Workshops and Conferences

- 2019 EV Showcase & Workshop Prince George's County Sports and Learning Complex
- Circulator Workshop #3
- 2020 Washington Auto Show

January 24 - February 2, 2020 Washington Convention Center



Special Transformational Projects for DC Area

Renewable Natural Gas (Bio-methane) Production



A proposal to maximize DC Water's bio-methane value – both environmentally and monetarily



This groundbreaking project is the **first to employ thermal hydrolysis technology** in North America, and the **largest such facility in the world**. The project efficiently provides clean, green renewable power by **converting collected sewage solids into methane**, which is cleaned and then sent through turbines for the production of electric power and recoverable heat.



Combustion Turbines Three 5 Megawatt (MW) turbines onsite convert digester gas into power, producing enough power to run one third of Blue Plains, the largest advanced wastewater treatment plant in the world. In addition, heat is recovered and converted to steam, which is used to heat the thermal hydrolysis process, so that there is no external energy needed for the project.

Special Transformational Projects for the DC Area

Renewable Natural Gas (Bio-methane) Production



Re-purposing the biomethane (RNG) by injecting the RNG into the Washington Gas pipeline system and utilizing it for general transportation use and other purposes.



Taking full advantage of renewable natural gas' (RNG) value as a transportation fuel through renewable identification numbers (RINs) – part of the Renewable Fuel Standard (RFS) Program

RNG from wastewater is classified as a cellulosic pathway and therefore generates D3 RINs.

As a transportation fuel, the RNG value increases dramatically for both the producer and fleet end user. That's why many major national fleets have expressed willingness to replace their dirty diesel trucks with cleaner natural gas ones in the DC Metro area if the RNG is accessible to them.

WSSC is now considering a similar project in Maryland!



Propane Initiatives

Food Truck Proposal











Propane Initiatives

Prince George's County Workshop and Tour





May 30, 2019 Event







Thanks!

Ira H. Dorfman
Executive Director
202/255-6050
iradorfman@gwrccc.org

