AGENDA

Electric Vehicles North Texas (EVNT)
Stakeholder Meeting

North Central Texas Council of Governments
Regional Forum Room
Wednesday, February 18, 2015
9:00 – 11:00 am

1. Introduction .......................................................... Marissa Fewell, NCTCOG

2. Recent Developments:
   a. EPA Ozone Standard Update……………………………..Jody Loza, NCTCOG
   b. Clean Fleet Policy………………………………………..Amy Hodges, NCTCOG
   c. DFW Clean Cities Annual Survey.........................Kenny Bergstrom, NCTCOG

3. EVNT Update .......................................................... Marissa Fewell, NCTCOG

4. Other Items ........................................................................All

5. Adjourn.................................................................Marissa Fewell, NCTCOG

Audio:
Call-in: 800-250-3900
Participant PIN: 442318#

www.dfwcleancities.org/evnt
# EVNT Goals

## 1 Year Goals

### Vehicles

<table>
<thead>
<tr>
<th>Goal</th>
<th>Performance Measure</th>
<th>Timeline</th>
</tr>
</thead>
<tbody>
<tr>
<td>Continue/Expand Partnerships with Dealerships, Rental Car Companies, Service Centers, etc.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Promote EV Adoption</td>
<td>3,000 Light-Duty EVs Registered by the End of 2015</td>
<td>Now</td>
</tr>
<tr>
<td>Continue Promoting LDPLI Program</td>
<td>All Funding Used (about $5.4 million still available)</td>
<td>Now</td>
</tr>
</tbody>
</table>

### Infrastructure

<table>
<thead>
<tr>
<th>Goal</th>
<th>Performance Measure</th>
<th>Timeline</th>
</tr>
</thead>
<tbody>
<tr>
<td>Develop Maps &amp; Analysis of EV Registration Data with Recharging Infrastructure Sites</td>
<td>Update Thematic Map Quarterly to Follow Trends</td>
<td>Now</td>
</tr>
<tr>
<td>Research Integrating EV-Ready Guidelines Into Building Codes</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Engage Local Businesses in Workplace Charging Challenge</td>
<td>5 Additional Workplaces Signed Up</td>
<td>Now</td>
</tr>
<tr>
<td>Initiate Conversation with TxDOT Regarding Recharging at Rest Areas</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Both

<table>
<thead>
<tr>
<th>Goal</th>
<th>Performance Measure</th>
<th>Timeline</th>
</tr>
</thead>
<tbody>
<tr>
<td>Develop Marketing/Education Materials</td>
<td></td>
<td>Now</td>
</tr>
<tr>
<td>Host National Drive Electric Week Event(s)</td>
<td>100 People Attending</td>
<td>Now</td>
</tr>
<tr>
<td>Create Region Specific Fact Sheets</td>
<td>1 for General Public &amp; 1 for Local Governments</td>
<td>Now</td>
</tr>
<tr>
<td>Monitor Local Interest Group Activities &amp; Meetings</td>
<td>Attend Meetings &amp; Participate at Events</td>
<td>Now</td>
</tr>
</tbody>
</table>

## 3-5 Year Goals

<table>
<thead>
<tr>
<th>Goal</th>
<th>Performance Measure</th>
<th>Timeline</th>
</tr>
</thead>
<tbody>
<tr>
<td>Develop multiple videos for educational and marketing purposes</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Further an electrification network on the heavily travelled road networks between the DFW, Houston, and Austin-San Antonio urban centers</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Pursue additional infrastructure deployment and engage transit agencies and universities in future infrastructure/rental/car loan projects</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Registration by Electric Vehicle (EV) Model in North Texas

Total EV Registration:
Texas: 5,911
DFW Area: 2,290
(39% of TX total)
(As of February 2015)

* NCTCOG staff plans to include additional models including: Cadillac ELR, Chevrolet Spark, Fiat 500e, Honda Accord Plug-In & Fit EV, Toyota Plug In Prius, & RAV4 EV
EV Registration Frequency

Total Texas Registrations

Aug-13: 118
Sep-13: 310
Oct-13: 346
Nov-13: 337
Dec-13: 330
Jan-14: 272
Feb-14: 226
Mar-14: 275
Apr-14: 366
May-14: 306
Jun-14: 362
Jul-14: 461
Aug-14: 366
Sep-14: 375
Oct-14: 556
Nov-14: 288
Dec-14: 292
Jan-15: 274
Feb-15: 55
**EV Emissions Benefits**

**DFW EV Registration Emissions Impacts***

<table>
<thead>
<tr>
<th>Emissions</th>
<th>Tons per Year</th>
</tr>
</thead>
<tbody>
<tr>
<td>NO\textsubscript{x}</td>
<td>2.70</td>
</tr>
<tr>
<td>VOC</td>
<td>0.68</td>
</tr>
<tr>
<td>CO\textsubscript{2}</td>
<td>16,883.01</td>
</tr>
<tr>
<td>PM</td>
<td>0.31</td>
</tr>
<tr>
<td>CO</td>
<td>167.51</td>
</tr>
</tbody>
</table>

* Assuming each EV replaces a vehicle certified to EPA Tier 2 Bin 5 emissions standards that drives 15,000 miles/year

**CO\textsubscript{2} Emissions Reductions Equal to**: 

- railcars worth of coal burned: 90.5
- tanker trucks' worth of gasoline: 223

**Based upon the EPA Greenhouse Gas Equivalencies Calculator**
DFW Public EV Charging Infrastructure

Source: NCTCOG
*Data as of February 13, 2015
Vehicles Funded to Date (2/9):
EVs: 1,019
CNG/LPG: 46
Guide to Claiming the State Incentive for Electric Vehicles (EVs)

What: Texas Commission on Environmental Quality (TCOEQ) Light Duty Motor Vehicle Purchase or Lease Incentive Program
How Much: $2,500 rebate per vehicle for purchases
- Up to $2,500 rebate per vehicle for leases, pro-rated based on lease term
  - 4-year or longer terms = $2,500
  - 3-year to less than 4-year term = $1,875
  - 2-year to less than 3-year term = $1,250
  - 1-year to less than 2-year term = $625
Application Process:

- Assured Required Documents
- Completed video to TCOEQ
- Copy of Executed Purchase/Lease Agreement
- Copy of Federal/State/local Incentive (Self/Supplier)
- Copy of Completed Application for Texas Title/Registration

Eligible EVs:

<table>
<thead>
<tr>
<th>Type</th>
<th>Make</th>
<th>Model</th>
<th>*Model Year 2015</th>
<th>Credit Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>Electric Vehicle</td>
<td>BMW</td>
<td>i3, i8 (range extender)</td>
<td></td>
<td>$3,000</td>
</tr>
<tr>
<td>Plug-In Hybrid Electric Vehicle</td>
<td>BMW</td>
<td>i3, i8 (range extender)</td>
<td></td>
<td>$3,000</td>
</tr>
<tr>
<td>Plug-In Hybrid Electric Vehicle</td>
<td>Cadillac</td>
<td>ELR</td>
<td></td>
<td>$3,000</td>
</tr>
<tr>
<td>Plug-In Hybrid Electric Vehicle</td>
<td>Chevrolet</td>
<td>Volt</td>
<td></td>
<td>$3,000</td>
</tr>
<tr>
<td>Electric Vehicle</td>
<td>Ford</td>
<td>Focus</td>
<td></td>
<td>$3,000</td>
</tr>
<tr>
<td>Electric Vehicle</td>
<td>Kia</td>
<td>Soul EV</td>
<td></td>
<td>$3,000</td>
</tr>
<tr>
<td>Electric Vehicle</td>
<td>Mercedes-Benz</td>
<td>B-Class E-Cell</td>
<td></td>
<td>$3,000</td>
</tr>
<tr>
<td>Electric Vehicle</td>
<td>Mitsubishi</td>
<td>i-MiEV</td>
<td></td>
<td>$3,000</td>
</tr>
<tr>
<td>Electric Vehicle</td>
<td>Nissan</td>
<td>Leaf (1, 5, 8, &amp; S)</td>
<td></td>
<td>$3,000</td>
</tr>
<tr>
<td>Plug-In Hybrid Electric Vehicle</td>
<td>Porsche</td>
<td>Panamera SE Hybrid</td>
<td></td>
<td>$3,000</td>
</tr>
<tr>
<td>Electric Vehicle</td>
<td>Smart</td>
<td>SmartCar</td>
<td></td>
<td>$3,000</td>
</tr>
</tbody>
</table>

*Model Year 2015; check with dealer for availability

Eligibility: Individuals, Businesses, and State/local Governments
- First-Come, First-Served Basis until June 26, 2015, or until All Funding is Awarded
- Purchase/Lease Must be Made After May 13, 2014
- Must be registered and operated in Texas for One Year

Guide to Claiming the Federal Incentive for Electric Vehicles (EVs)

What: Plug-In Electric Drive Vehicle Credit (IRC 30D)
How Much: $2,500 - $7,500 Tax Credit per Vehicle
Application Process:

- Complete IRS Form 8936, Qualified Plug-in Electric Drive Motor Vehicle Credit
- For vehicles acquired for personal use: Report the credit on Form 1040, U.S. Individual Income Tax Return
- For vehicles acquired for business use: Report the credit on Form 3829, General Business Credit

Eligible EVs:

<table>
<thead>
<tr>
<th>Make/Year</th>
<th>Model/Year</th>
<th>Model</th>
<th>Credit Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acura</td>
<td>2011, 2012</td>
<td>Plug-In Electric Drive Vehicle</td>
<td>$7,500</td>
</tr>
<tr>
<td>Audi</td>
<td>2011, 2012</td>
<td>Plug-In Electric Drive Vehicle</td>
<td>$7,500</td>
</tr>
<tr>
<td>BMW</td>
<td>2011, 2012</td>
<td>Plug-In Electric Drive Vehicle</td>
<td>$7,500</td>
</tr>
<tr>
<td>Ford</td>
<td>2011, 2012</td>
<td>Plug-In Electric Drive Vehicle</td>
<td>$7,500</td>
</tr>
<tr>
<td>Honda</td>
<td>2011, 2012</td>
<td>Plug-In Electric Drive Vehicle</td>
<td>$7,500</td>
</tr>
<tr>
<td>Hyundai</td>
<td>2011, 2012</td>
<td>Plug-In Electric Drive Vehicle</td>
<td>$7,500</td>
</tr>
<tr>
<td>Kia</td>
<td>2011, 2012</td>
<td>Plug-In Electric Drive Vehicle</td>
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<tr>
<td>Mercedes-Benz</td>
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<td>Nissan</td>
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<td>Porsche</td>
<td>2011, 2012</td>
<td>Panamera SE Hybrid</td>
<td>$7,500</td>
</tr>
<tr>
<td>SmartCar</td>
<td>2011, 2012</td>
<td>SmartCar</td>
<td>$7,500</td>
</tr>
<tr>
<td>Tesla</td>
<td>2011, 2012</td>
<td>Model S</td>
<td>$7,500</td>
</tr>
<tr>
<td>Toyota</td>
<td>2011, 2012</td>
<td>Model S</td>
<td>$7,500</td>
</tr>
<tr>
<td>Volkswagen</td>
<td>2011, 2012</td>
<td>Plug-In Electric Drive Vehicle</td>
<td>$7,500</td>
</tr>
<tr>
<td>Volvo</td>
<td>2011, 2012</td>
<td>Plug-In Electric Drive Vehicle</td>
<td>$7,500</td>
</tr>
</tbody>
</table>

*Additional Information available at www.irs.gov/Businesses/Plug-In-Electric-Vehicle-Credit-IRC-30D-and-IRC-30D*
Legislative Update

HB 735 - filed January 15

• Establishes a program to collect information about the number of alternatively fueled vehicles registered on an annual basis.

• Includes: electric plug-in drives, hybrid electric drives, hybrid electric plug-in drives, flexible fuel, fuel cells, natural gas, propane, or other alternative fuels.

• If passed, will take effect September 1, 2016

HB 1184 - filed February 5

• Authorizes “alternative fuel programs resulting in energy cost savings and reduced emissions for local government vehicles, including fleet vehicles” as eligible for local government energy savings performance contracts.

• If passed, will take effect September 1, 2015
Program Goals
Contact Information

Marissa Fewell
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mfewell@nctcog.org
817-695-9226

Lori Clark
Principal Air Quality Planner
lclark@nctcog.org
817-695-9232

www.dfwcleancities.org/evnt
Other Items?
Clean Fleet Policy Revisions

Electric Vehicles North Texas
February 18, 2015

Amy Hodges
Air Quality Planner
Air Quality Planning & Operations
Clean Fleet Vehicle Policy Background

Regional Transportation Council Adopted Policy in October 2005 Sections:
- Acquisition
- Operations
- Maintenance
- Compliance Verification

Working Group Developed in October 2013 to Update Policy Goal-Oriented Structure:
- Reduce Emissions from Fleet Activities
- Reduce Overall Fuel Consumption, Particularly Use of Conventional Petroleum Fuels
- Partner with NCTCOG and DFW Clean Cities
- Ensure Drivers/Operators and Fleet Personnel are Familiar With Air Quality and Petroleum Reduction Goals
## Fleet Representative Working Group

### Participants

<table>
<thead>
<tr>
<th>City of Allen</th>
<th>Frito-Lay North America</th>
</tr>
</thead>
<tbody>
<tr>
<td>City of Burleson</td>
<td>HT Bar, Inc.</td>
</tr>
<tr>
<td>City of Coppell</td>
<td>City of Richardson</td>
</tr>
<tr>
<td>City of Dallas</td>
<td>Southeastern Freight Lines</td>
</tr>
<tr>
<td>Dallas Area Rapid Transit</td>
<td>City of Southlake</td>
</tr>
<tr>
<td>City of Denton</td>
<td>Tarrant County</td>
</tr>
<tr>
<td>DFW International Airport</td>
<td>UT Southwestern Medical Center</td>
</tr>
<tr>
<td>City of Fort Worth</td>
<td>City of Wylie</td>
</tr>
</tbody>
</table>

*2013-2014 Meetings in October, November, February, May, June, August and October*
Major Considerations for Revision

- Remain Relevant/Effective
- Capture Comprehensive Air Quality Goals
- Reflect Role as DFW Clean Cities Coalition

- Remove Obsolete Emissions References
- Engage Private Sector and Non-Road Equipment
- Incorporate Volatile Organic Compounds
- Incorporate Petroleum Reduction
- Streamline Annual Reporting Requirements
- Engage Private Sector and Non-Road Equipment
New Concepts

Implement Separate Idle-Reduction Policy/Standard Operation Procedure (SOP)

Goal: Ensure Idle Reduction is Part of Emissions Reduction Strategy

Support Peer Fleets’ Efforts by Sharing and Maximizing Resources

Goal: Promote Innovative Collaborations

Encourage Activities to Minimize Water, Solid Waste, or Other Environmental Impacts

Goal: Address Indirect Air Quality Impacts and Ensure Air Quality Improvement is Not at Expense of Other Environmental Issues
Clean Fleet Policy Implications

Original

Policy Adoption + Annual Reporting = Funding Eligibility

Revised

Policy Adoption (Requires Idle Reduction Policy/SOP) + Annual Reporting = Funding Eligibility

Maintain Current RTC Position on Funding Eligibility

DFW Clean Cities Recognition Program
RTC Position on Funding Eligibility

Policy Adoption and Compliance Required for all Vehicle Funding

Adoption and Compliance May be Considered in Other RTC Funding Actions

Utilized for Regional Toll Revenue Call for Projects
Next Steps

Continue to Simplify and Improve Reporting Template

Coordinate with Department of Energy Staff for Report Streamlining Opportunities
<table>
<thead>
<tr>
<th>Task/Milestone</th>
<th>Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>STTC/RTC Information</td>
<td>August/September 2013</td>
</tr>
<tr>
<td>DFW Clean Cities Meetings</td>
<td>July 2013 and June 2014</td>
</tr>
<tr>
<td>Working Group Meetings</td>
<td>October 2013 – October 2014</td>
</tr>
<tr>
<td>STTC/RTC Information</td>
<td>March/May 2014</td>
</tr>
<tr>
<td>STTC Information</td>
<td>July 2014</td>
</tr>
<tr>
<td>STTC and RTC Information</td>
<td>October/November 2014</td>
</tr>
<tr>
<td>Final Clean Fleet Policy</td>
<td>November 2014</td>
</tr>
<tr>
<td>STTC/RTC Action</td>
<td>December 2014</td>
</tr>
<tr>
<td>Adoption by Regional Fleets</td>
<td>Beginning January 2015</td>
</tr>
</tbody>
</table>
Regional Fleet Adoptions – Revised Policy

Re-adoptions
- City of Euless
- City of Lancaster
- City of North Richland Hills
- City of Richland Hills
- City of Wylie
- Lipan ISD
- SPAN, Inc.

New Adoptions
- City of Aubrey
- City of Krum
- City of Springtown
Contact Information

Amy Hodges
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817-704-2508

Lori Clark
Principal Air Quality Planner
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817-695-9232

Shannon Stevenson
Program Manager
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817-608-2304

Website
www.nctcog.org/fleetpolicy
EVNT Stakeholder Meeting

DFW Clean Cities Annual Survey
February 18, 2015

Kenny Bergstrom
DFW Clean Cities Staff
kbergstrom@nctcog.org
• Cover the 16 County North Central Texas Region
• Fuel specific committee structure covering different fuel types
• Electric vehicle committee provides key feedback on real world trends and ideas to expand adoption of EVs in North Texas
• EV committee crucial to understanding ownership experience, concerns with vehicles and/or recharging, and utilizing available incentives.
• All EV committee stakeholders will be DFW CC stakeholders
• Membership is free
• Collected every year and sent to the Department of Energy (DOE)

• DOE goal to save 2.5 billion gallons of petroleum per year by 2020

• DFWCC goal to increase petroleum reduction by 15 percent every year

• Combined with Clean Fleet Policy

www.dfwcleancities.org/annualreport
Over 17 Million GGE Reduced

2013 Gallons of Gasoline Equivalent Reduced
17,377,293 gallons

- Vehicle Miles Traveled Reductions (0.1%)
- Off-Road Vehicles (0.2%)
- Idle Reduction (4%)
- Hybrid Vehicles (2%)
- Fuel Economy Improvements (1.0%)
- Electric & Plug-In Vehicles (0.09%)

Alternative Fuel Vehicles (93%)
Over 50,000 Tons GHG Emissions Reduced

2013 Greenhouse Gas Emissions Reduced
51,241 tons

- Alternative Fuel Vehicles (72%)
- Idle Reduction (16%)
- Hybrid Vehicles (7%)
- Fuel Economy Improvements (4%)
- Electric & Plug-In Vehicles (0.08%)
- Off-Road Vehicles (0.2%)
- Vehicle Miles Traveled Reductions (0.6%)
Contact Information

Pamela Burns
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pburns@nctcog.org

DFW Clean Cities Website
www.dfwcleancities.org

Kenny Bergstrom
Communications Specialist
DFW Clean Cities Staff
817-704-5643
kbergstrom@nctcog.org

NCTCOG Funding Website
www.nctcog.org/aqfunding
EPA OZONE STANDARD UPDATE

Jody Loza, Air Quality Planner
Electric Vehicles North Texas
February 18, 2015
10-County Nonattainment Area

2008 Eight-Hour Ozone Standard
## 2008 EIGHT-HOUR OZONE STANDARD

### Timeline

<table>
<thead>
<tr>
<th>Date</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>July 20, 2012</td>
<td>Dallas-Fort Worth Nonattainment Area Designated as “Moderate” Nonattainment</td>
</tr>
<tr>
<td>November 21, 2014</td>
<td>SIP Package Filed with the TCEQ Chief Clerk’s Office</td>
</tr>
<tr>
<td>December 10, 2014</td>
<td>TCEQ Commissioners' Proposal Agenda</td>
</tr>
<tr>
<td>December 26, 2014 thru January 30, 2015</td>
<td>Public Comment Period and Public Hearings</td>
</tr>
<tr>
<td>July 20, 2015</td>
<td>SIP Package Due to EPA</td>
</tr>
<tr>
<td>July 20, 2018</td>
<td>Attainment Date</td>
</tr>
</tbody>
</table>

EPA: Environmental Protection Agency  
SIP: State Implementation Plan  
TCEQ: Texas Commission on Environmental Quality
Clean Air Act Requires EPA to Periodically Review all NAAQS

EPA Policy Assessment – Recommend Lowering Ozone NAAQS from $\leq 75$ ppb to Between 60 to 70 ppb

November 26, 2014 – Proposed Rule Released by EPA

65 – 70 ppb to Protect Public Health and Environment

EPA Accepting Comments on $\leq 60$ ppb

Ozone Season Extended to March – November

New EPA Air Quality Index to be Developed Based on New Standard

December 17, 2014 – Proposed Rule Published in the Federal Register

90-day Public Comment Period (Closes March 17, 2015)

Additional Counties Added to Nonattainment Area Under Revised Standard

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1 http://www.epa.gov/glo/actions.html#nov2014
2 January – December for South Texas

NAAQS: National Ambient Air Quality Standards
ppb: Parts per billion
<table>
<thead>
<tr>
<th>Date</th>
<th>Event Description</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>By October 1, 2015</td>
<td>Final Rule</td>
<td>1 Approximate - Effective date is 60 days after publication of Final Rule in the Federal Register.</td>
</tr>
<tr>
<td>December 1, 2015</td>
<td>Effective Date for Revised Standard</td>
<td></td>
</tr>
<tr>
<td>By October 1, 2016</td>
<td>States to Submit Nonattainment Designation Recommendations</td>
<td>2 States have one year from “Final Rule” to recommend areas to be designated as nonattainment under the revised 8-hour ozone standard.</td>
</tr>
<tr>
<td>By October 1, 2017</td>
<td>EPA Nonattainment Area Designations</td>
<td>3 EPA has two years from “Final Rule” to designate areas as nonattainment under the revised 8-hour ozone standard.</td>
</tr>
<tr>
<td>2020 – 2037</td>
<td>Potential Attainment Dates for Revised Standard, Based on Region’s Classification</td>
<td></td>
</tr>
</tbody>
</table>
For Further Information

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