Fleet Efficiency in the USACE

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Requirements/Background

• E.O. 13693 published 25 March 2015- sets multiple requirements to increase fleet sustainability

• Section 3(g)(ii) of E.O. 13693 requires reduction in GHG emissions of 15% by FYE21 & 30% by FYE25

• E.O. 13693 mandates submission of fleet data to the Fleet Sustainability Dashboard (FleetDASH)
Background

FY15-
• Missed opportunities totaled 364,554 GGEs
• 1.57%- Alternative Fuel (AF) consumption as a percentage of total fuel consumption
• Fleet wide gCO2e/mile 604.09- a reduction of 1.4% from FY14 baseline

FY16-
• Missed opportunities totaled 307,657 GGEs- a reduction of 15.6% from FY15
• 3.98%- AF consumption as a percentage of total fuel consumption
• Fleet wide gCO2e/mile 583.37 a reduction of 4.8% from FY14 baseline
FY17 (as of Q3FY17)

- Missed opportunities totaled 172,485 GGEs
- 6.3%- Alternative Fuel (AF) consumption as a percentage of total fuel consumption
- USACE on track to see further reduction of Fleet wide gCO2e/mile for FY17
Challenges

• Current Zero Emission Vehicle (ZEV) & Plug-in Hybrid Electric Vehicle (PHEV) technology
  ➢ *Technology is lacking for certain classes of vehicle (MD, HD) & vehicle range limited in classes where technology is available*

• Lack of Electric Vehicle Charging Equipment (EVSE) infrastructure

• Cost of developing EVSE infrastructure

• Overcoming cultural obstacles
Opportunities

• Reduce GHG emissions through increased use of Alternative Fuels (AF) including E85

• Develop more sustainable fleet through acquisition of AFVs

• Targeted acquisition/placement of EVSE

• Educate & inform internal customers on use acquisition of AFVs and use of AF
Strategies for Success

• Track Missed Opportunities using FleetDASH
  ➢ *USACE conducts training on use of FleetDASH*

• Creation of metrics to encourage use of AF
  ➢ *USACE established metric to reduce Missed Opportunities using FY15 as baseline*

• Involve stakeholders from across the agency
  ➢ *USACE has worked to involve personnel from across the agency & at all echelons (Civil Works, Sustainability, Transportation, Construction, Operations)*
Questions