

(First & Main Streets, Downtown Los Angeles)

Co-sponsored by CBE | NRDC | Moms Clean Air Force |

Climate Action Reserve | CHC | Citizens' Climate Lobby | SCOPE |

California Interfaith Power and Light | Pacoima Beautiful | Coalition for Clean Air | ACE

California Methane Symposium:

*A Scientific Assessment of Methane Pollution and
Strategies to Address Emissions*

Sponsored by EDF AND Climate Resolve

Co-sponsored by CBE | NRDC | Moms Clean Air Force | Climate Action Reserve |
CHC | Citizens' Climate Lobby | SCOPE | California Interfaith Power and Light |
Pacoima Beautiful | Coalition for Clean Air | ACE

THURSDAY MARCH 12, 2015, 1:30 - 4:30 PM

Twitter 
#methane

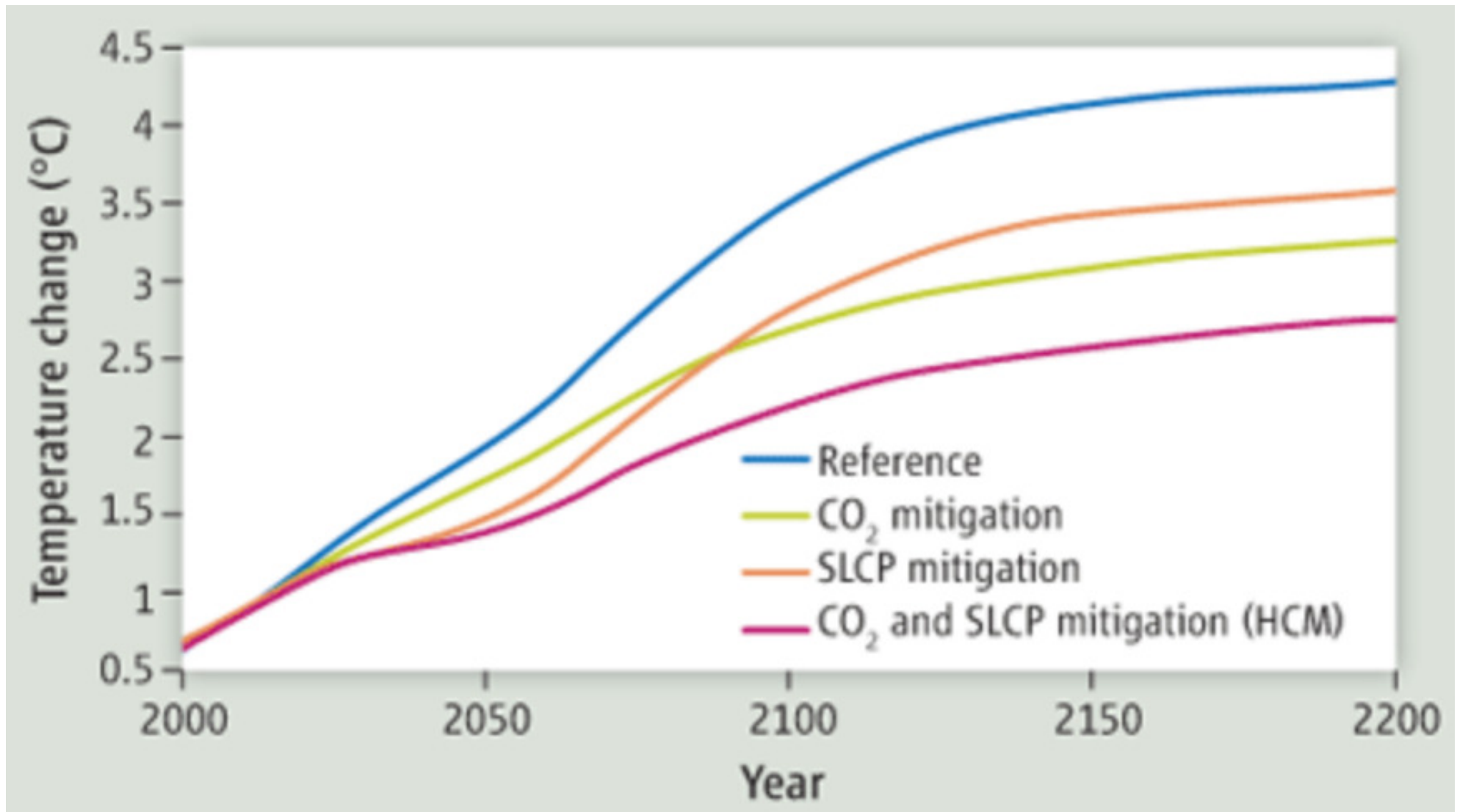


Concept # 1

**Fighting climate change requires
reducing methane emissions from
all sources**



Urgent need to reduce CO₂ and Methane



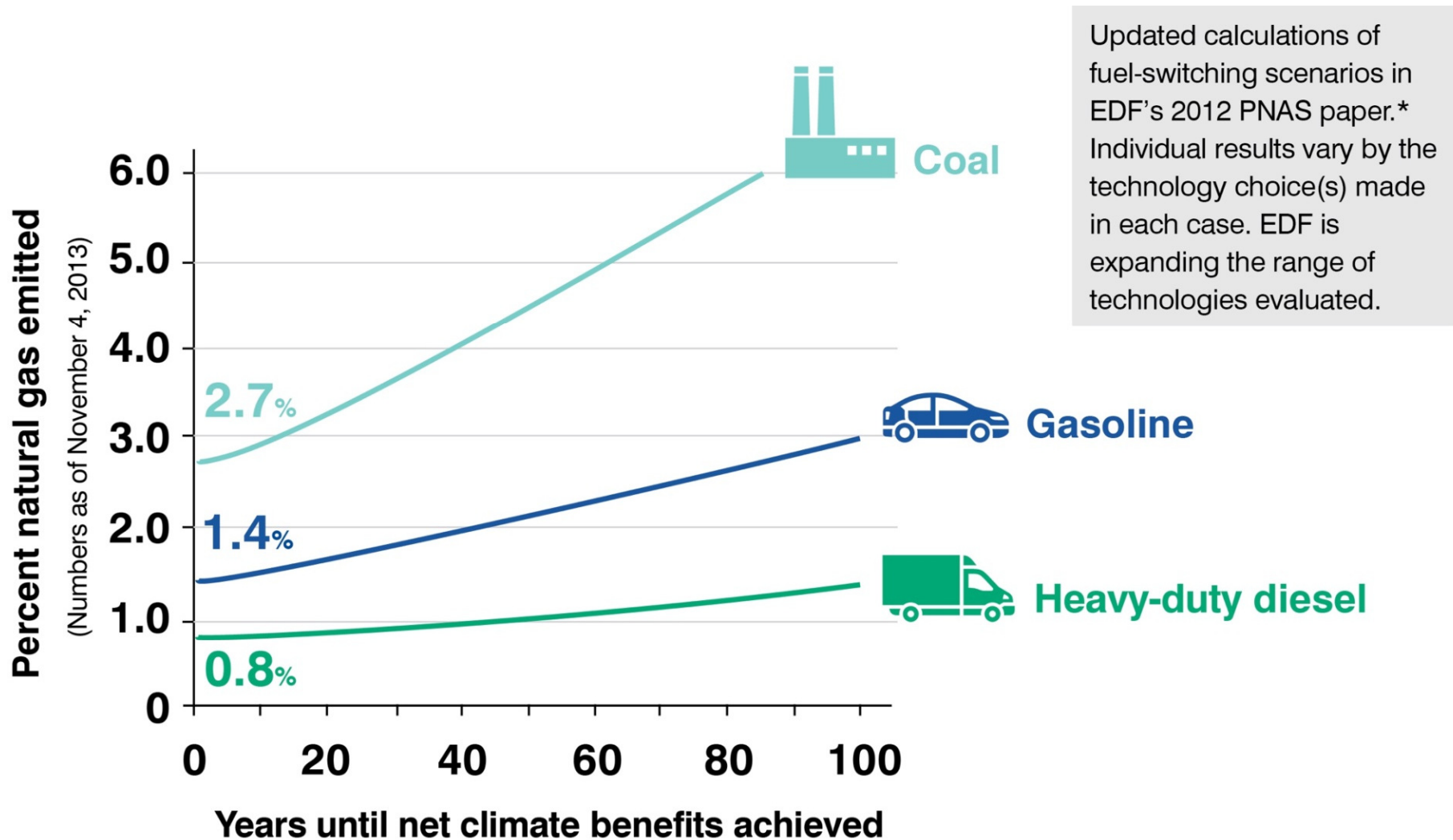
Shoemaker, et. al., **What Role for Short-Lived Climate Pollutants in Mitigation Policy?**, Science, December 19, 2013

Concept # 2

Natural gas presents a climate benefit only if methane leakage is kept to a minimum



Can natural gas deliver sustained benefits?



*Adapted from Alvarez et al. (2012) PNAS, 109: 6435–6440, reflecting new IPCC AR5 & 2013 EPA GHG data. IPCC updates: (1) direct/indirect radiative forcing of CH₄ and CO₂, (2) CH₄ lifetime, (3) CO₂ impulse response function. Additional effects due to climate-carbon feedbacks and CO₂ from the oxidation of CH₄ not included (AR5 lacks data to support time-dependent analysis but EDF believes these effects to be small). Emissions updates include factors in Table 1 and corresponding LREF values in Table S1 of PNAS paper; an LREF value specific to heavy-duty CNG vehicles is now used.

Concept # 3

To develop sound methane policy for the energy sector, we must understand the sources better



EDF STUDIES BY NATURAL GAS SUPPLY CHAIN SEGMENT

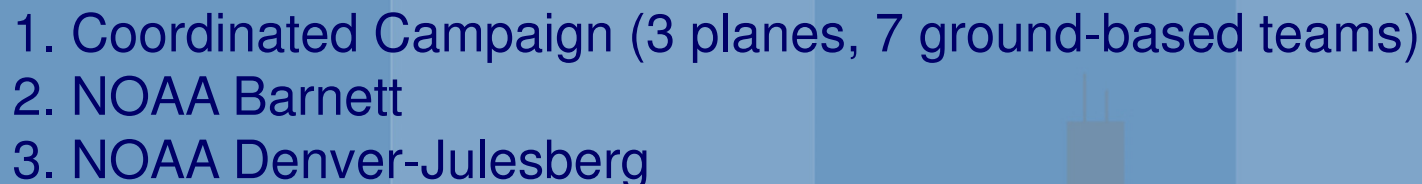
Production

Gathering/Processing

Transmission/Storage

Local Distribution



Trucks & Stations

- 
1. Coordinated Campaign (3 planes, 7 ground-based teams)
 2. NOAA Barnett
 3. NOAA Denver-Julesberg

- 
4. UT Phase 1
 5. UT Phase 2
 6. HARC/EPA Data

- 
7. CSU Study

- 
8. CSU Study

- 
- 
9. WSU Multi-City
 10. Boston Study
 11. Indianapolis Study
 12. Methane Mapping Project

13. WVU Study

Other Studies:

14. Pilot Projects
15. Gap Filling
16. Project Synthesis