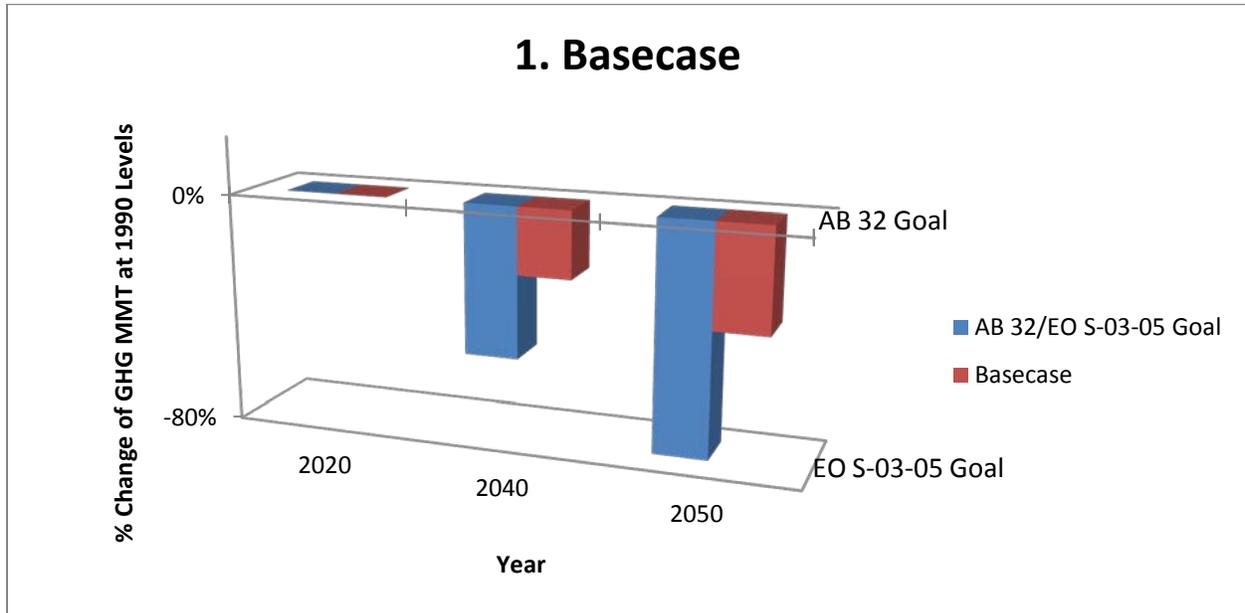


Impacts and Analysis on Statewide Transportation Sector GHG Alternative 1



- **RTP Project List (Constrained)**
 - Includes projects that are funded by existing local, state and federal sources along with funding sources that are reasonably available over the horizon and as identified in the RTP
- **Caltrans' Statewide Modal Plans Project List¹**
 - Aviation² – California Aviation System Plan (Oct 2011)
 - Freight – California Freight Mobility Plan (Dec 2014)
 - Transit³ – California Statewide Transit Strategic Plan (June 2012)
 - Highway – Interregional Transportation Strategic Plan (June 2015)
 - Rail – California State Rail Plan (July 2013)
- **Includes vehicle and fuel technologies assumed from Advanced Clean Car and In-Use Standards (ARB Standards)**

Bottoms-up Approach

- This approach aggregates the effects of the Basecase elements (RTP Project List (Constrained) and Caltrans' Statewide Model Plans Project List) towards the AB 32 and Executive Order S-03-05 Climate Change Goals.

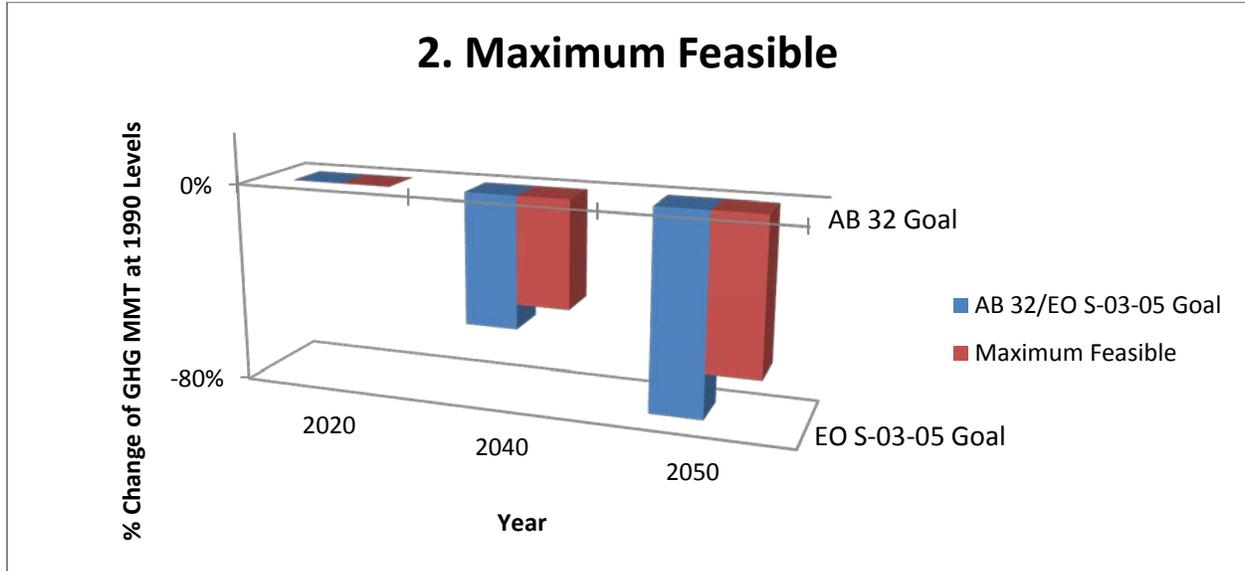
¹ Elements of Modal Plans are unconstrained

² Projects do not affect passenger travel

³ Does not identify projects

Impacts and Analysis on Statewide Transportation Sector GHG

Alternative 2



- **RTP Project List (Constrained)**
 - Includes projects that are funded by existing local, state and federal sources along with funding sources that are reasonably available over the horizon and as identified by the RTP
- **Caltrans' Statewide Modal Plans Project List¹**
 - Aviation² – California Aviation System Plan (Oct 2011)
 - Freight - California Freight Mobility Plan (Dec 2014)
 - Transit³ – California Statewide Transit Strategic Plan (June 2012)
 - Highway – Interregional Transportation Strategic Plan (June 2015)
 - Rail – California State Rail Plan (July 2013)
- **CTP Strategies**
 - VMT Moderation/Reductions per Capita
 - Vehicle Operating Costs
 - Transportation Alternatives
 - Mode Shift
 - Vehicle/System Operations
 - Operational Efficiency
 - Fuel and Vehicle Technology Infrastructure???
- **ARB's Vision Tool with Aggressive Fuel and Vehicle Technology Mix**
 - Tool to analyze varying vehicle technologies and alternative fuels

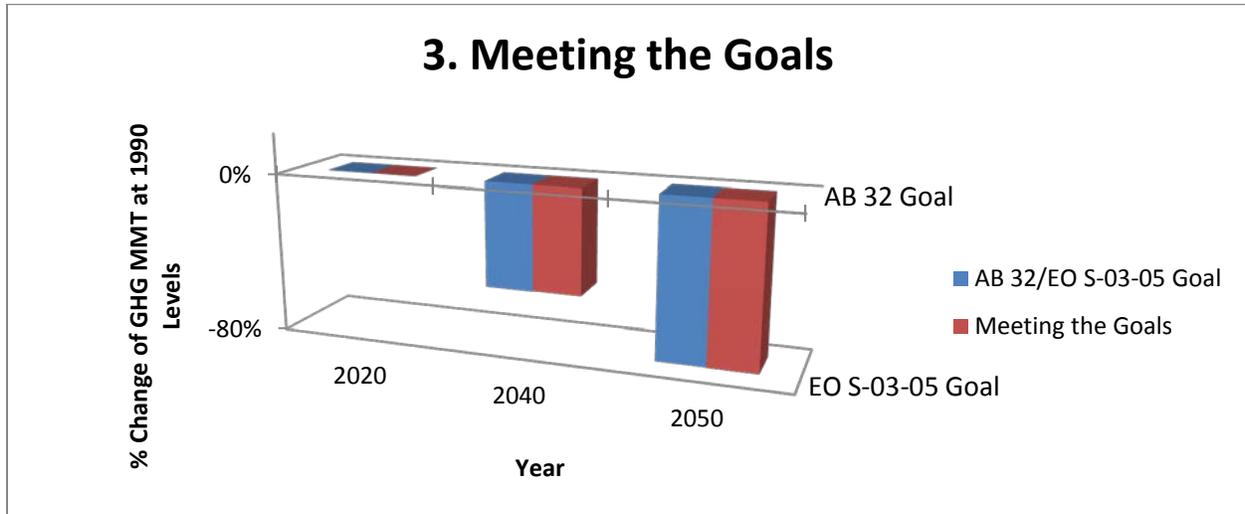
Bottoms-up Approach

- This approach aggregates the effects of the Maximum Feasible elements (RTP Project List (Constrained), Caltrans' Statewide Model Plans Project List, CTP Strategies, and ARB's Vision Tool) towards the AB 32 and Executive Order S-03-05 Climate Change Goals.

(Hypothetical)

Impacts and Analysis on Statewide Transportation Sector GHG

Alternative 3



- **RTP Project List (Constrained)**
 - Includes projects that are funded by existing local, state and federal sources along with funding sources that are reasonably available over the horizon and as identified by the RTP
- **Caltrans' Statewide Modal Plans Project List¹**
 - Aviation² – California Aviation System Plan (Oct 2011)
 - Freight - California Freight Mobility Plan (Dec 2014)
 - Transit³ – California Statewide Transit Strategic Plan (June 2012)
 - Highway – Interregional Transportation Strategic Plan (June 2015)
 - Rail – California State Rail Plan (July 2013)
- **CTP Strategies**
 - VMT Moderation/Reductions per Capita
 - Vehicle Operating Costs
 - Transportation Alternatives
 - Mode Shift
 - Vehicle/System Operations
 - Operational Efficiency
 - Fuel and Vehicle Technology Infrastructure???
- **ARB's Vision Tool with More Aggressive Fuel and Vehicle Technology Mix**
 - Tool to analyze varying vehicle technologies and alternative fuels

Tops-down Approach

- This approach starts with AB 32 and Executive Order S-03-05 Climate Change Goals in the future 2020 and 2050, respectively, and works backward to base year 2010 to fill in the gaps that exist in Alternatives 1 and 2 with more aggressive vehicle and fuel technology usage.