

### AB 868 Fuel Delivery Temperature Study

Advisory Group Meeting California Energy Commission

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<u>CALI FORNIA EN ERGY COMMISSION</u>



#### **ATC Costs**

- Business costs will be calculated using:
  - Fuel dispensers make & model
  - ATC retrofit equipment costs @ expected lifetime
  - Installation labor costs & periodic maintenance
  - Incremental costs for ATC-capable new dispensers
  - Agency impacts
  - Labeling
- Analysis will be performed on a county-specific basis
- Gasoline and diesel fuel dispensers will be included in the assessment
  - Lack of data will likely preclude analysis for other types of transportation fuels, with possible exception of aviation gasoline

#### Temperature Compensation (TC) Operation

- ATC will automatically adjust the volume depending on dispensed temperature
  - Fuel Density
  - Volume Correction Factor (VCF)
- Reference Temperature (Hawaii Example)
  - Determine annual statewide fuel temperature
  - Using VCF, establish a statewide standard for cubic inches per dispensed "gallon"
    - US gallon equals 231 cubic inches
    - California gallon equals ?



#### Temperature Data

- Use DMS temperature data to estimate fuel temperature profiles for each county on a monthly basis.
- Use temperature data along with VCF from ASTM and retail price (per county) to estimate benefits.

### status-quo Operation of Retail Station

- Do all suppliers sell to service stations the same way (net or gross) or are there differences in the marketplace?
- Confirming with survey
- Assumption: temperature compensation is occurring at distribution terminals
- Assumption: posted prices at distribution terminals are in petroleum gallons
- Assumption: wholesalers are sold net gallons
- Assumption: retailers sell gross gallons



#### **Business Impacts of ATC Implementation**

- Market (pricing) impacts from ATC costs
  - Assumption: gallons will now be priced in petroleum gallons (231 in<sup>3</sup> @ 60 F)?
  - Assumption: costs will ultimately be passed through to the consumers
    - Change in retail station revenue?
- Timing of ATC implementation and when costs and benefits occur

# Fairness and Transparency of ATC Implementation

- What will change from status-quo?
- ATC technology and labeling issues
  - Pump
  - Receipt
  - Street signage



## The Canadian Experience – How it Relates to California

- What is the story behind the economic decision of voluntary ATC implementation in Canada?
  - Incentives
  - Labeling
  - Consumer education



#### **Leak Detection**

- Would ATC improve current leak detection capabilities for California retail stations?
- Current leak detection capabilities are a plus or minus...?
- What would be the improved inventory accuracy of ATC?
  - California UST vs. non-California UST (Canadian)



#### **Contact Information**



Gordon Schremp gschremp@energy.state.ca.us

Nick Janusch njanusch@energy.state.ca.us

Paul Deaver pdeaver@energy.state.ca.us