

# What is the Houston - Galveston Area Council?

H-GAC is the Metropolitan Planning Organization for the 8 county Transportation Management Area

- More than 6 million people
- 8 counties: Brazoria, Chambers, Fort Bend, Galveston, Harris, Liberty, Montgomery and Waller
- 134 cities



### Transportation Plans

- Regional Transportation Plan : is the long -term transportation plan for the region ~ 20 years.
- Transportation Improvement Program : is the short-term transportation plan for the region, first 4 years.

Both need to be fiscally constrained

• The amendments to 2045 RTP and 2021-2024 TIP reflect changes in fiscally constrained and in regional significant projects.



## Air Quality Status

 Our region is in nonattainment for the 8 -hr Ozone Standard.

### Classification:

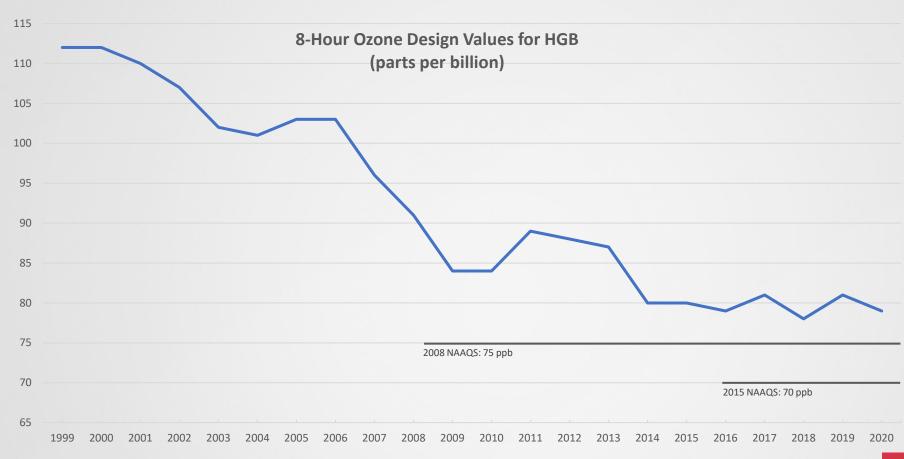
Serious for the 2008 8 -hr Ozone standard (75 ppb)

Marginal for the 2015 8 -hr Ozone standard (70 ppb)



# Air Quality in Houston Region



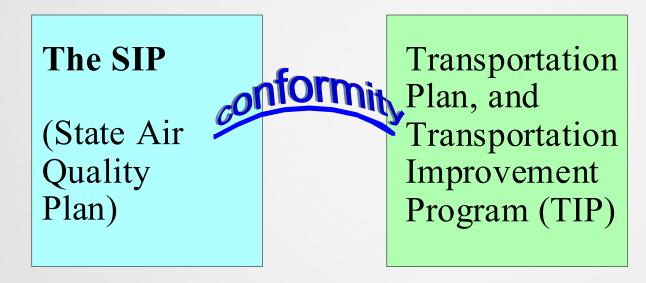




# What is Conformity?



- Process that links the air quality State Implementation
  Plan with the regional roadway planning.
- Ensures that transportation plans do not delay attainment of National Ambient Air Quality Standard



### **Emission Budgets**

- The emissions of transportation plans must conform to the emission budgets from the Air Quality State Implementation Plan
- Latest approved emission budgets:

Reasonable Further Progress budget for mobile sources found adequate by EPA June 6, 2017 – Moderate classification

RFP Demonstration Budget (tons/day)					
Year	NOx	VOC			
2017	121.81	68.04			

NOx – Nitrogen Oxides VOC – Volatile Organic Compounds



### **Emission Budgets**



Reasonable Further Progress budget for mobile sources in process of being approved by EPA - Serious classification

RFP Demonstration Budget (tons/day)					
Year	NOx	VOC			
2020	87.69	57.70			

NOx – Nitrogen Oxides

VOC – Volatile Organic Compounds



# Conformity Requirements



- Use of the latest planning assumptions
- Latest emission model approved by EPA
- Interagency consultation (EPA, FHWA, TCEQ, TxDOT, METRO)
- Public comment period
- Timely implementation of control measures
- Demonstrated if projected regional emissions from the RTP do not exceed the region's motor vehicle emissions budgets stated in the Air Quality State Implementation Plan.



### Calculations

### Years selected:

- 2020 attainment year for 2008 and 2015 8 hr. Ozone Standard
- 2030, and 2040 intermediate years
- 2045 horizon year

- Latest Planning available data: new vehicle registration, adjustment factors and fuel data.
- Latest air quality model: EPA MO VES2014b



## Draft Air Quality Conformity Results



#### Conformity Analysis Results versus Moderate Emission Budgets

Year	NOx Budget (tons/day)	NOx Emissions (tons/day)	VOC Budget (tons/day)	VOC Emissions (tons/day)	VMT
2020	121.81	77.03 ✓	68.04	51.04 ✓	188,200,352
2030	121.81	43.54 ✓	68.04	37.01 ✓	228,967,318
2040	121.81	37.96 ✓	68.04	24.84 ✓	267,995,566
2045	121.81	40.25 ✓	68.04	25.32 ✓	286,876,227

NOx- Nitrogen Oxides

**VOC-Volatile Organic Compounds** 

VMT-Vehicle Miles Traveled



### Draft Air Quality Conformity Results



### **Conformity Analysis Results versus Serious Emission Budgets**

Year	NOx Budget (tons/day)	NOx Emissions (tons/day)	VOC Budget (tons/day)	VOC Emissions (tons/day)	VMT
2020	87.69	77.13 ✓	57.70	51.04 ✓	188,200,352
2030	87.69	43.54 ✓	57.70	33.01 ✓	228,967,318
2040	87.69	37.96 ✓	57.70	24.84 ✓	267,995,566
2045	87.69	40.25✓	57.70	25.32 ✓	286,876,227

NOx – Nitrogen Oxides

VOC – Volatile Organic Compounds

VMT - Vehicle Miles Traveled



### **Proposed Timeline**

- March 2020 : Coordination with agency partners/TAC and TPC announcement.
- October 2020 : Review for model networks and Pre -Analysis Consensus document.
- December 2020 : Travel demand model runs.
- January 2020: Air quality model runs.
- March 2021: TAC and TPC preview.
- March 2021 : Public comment period from March 26 to April 28
- April 2021 : Virtual public meetings —April 8, 2pm and 6 pm
- June 2021 : TAC and TPC recommends approval of conformity determination & RTP/TIP amendments.
- Receive Federal Approval 3 months later.
- https://www.h -gac.com/transportation -conformity/2021



### Questions

- Questions
- Contact
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