API/ANGA Information on National Gas Well Count

EPA Stakeholder Workshop September 13-14, 2012 Washington D.C.



Background: API/ANGA Survey

Objective:

 Enhance data availability for LCA studies, inventories and other assessments that support national policy development

Timeframe

- Data collection (Aug. Nov, 2011)
- Analysis (Jan April 2012)

Approach

 Gather activity data from conventional and unconventional natural gas production to improve its characterization in nationwide GHG inventory



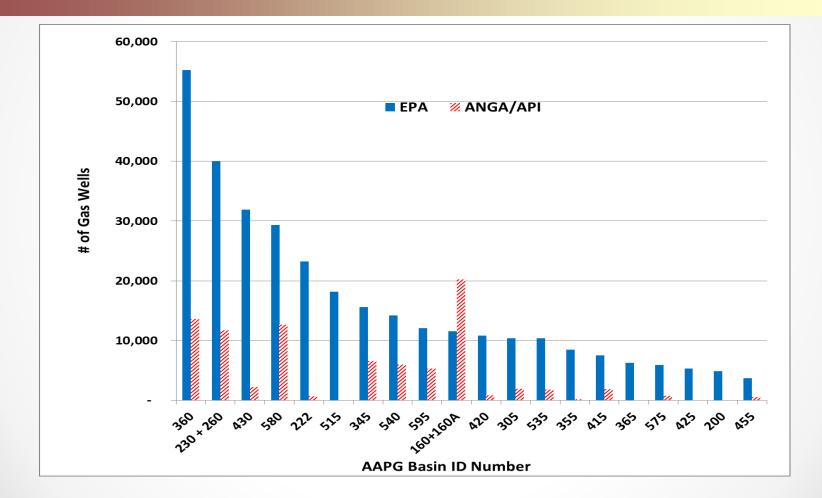
Gas Well Data

- API/ANGA survey activity data
 - Over 20 companies covering nearly 91,000 wells and 19 of the 21 producing geological basins
- Data includes information on each of the producing basins containing over 1% of the total well count in EPA's national gas wells database.
- Represents the most comprehensive data set yet compiled for natural gas operations

A more accurate picture of operations and activity level



Gas Well Count Comparison by AAPG Basin



Gas Well Count Comparison

	Conventional		Coal-bed		
	Wells	Shale	Methane	Tight	Unspecified
Survey TOTAL	28,448	9,438	5,467	34,368	13,307
% of EPA 2010 Well Counts (from Subpart W database file)	14.2%	30.1%	11.5%	45.6%	
Overall Survey Total	91,028				
EPA Well Counts	200,921	31,381	47,371	75,409	
(2010, from Subpart W database file)	355,082				
EPA National Inventory (2010)	484,795				
	434,361 (non- associated gas wells)	ociated gas (gas wells with Hydraulic Fracturing)			
EIA National Well Count (2010)	487,627				

Conclusions

- API/ANGA survey results provides substantial information for improving the national inventory
- EIA and EPA pull national well counts from state databases
- EPA information from HPDI resulted in a lower well count, but provided information by well type
 - Discrepancy in well count may point to differences in well classifications used by states



Conclusions, continued

- Work with stakeholders for consistent terminology for classifying wells
- Inventory needs to reflect legitimate well classifications that impact emissions
 - For example, coal bed methane wells do not vent for liquid unloading
 - Inventory needs to drop the use of terms "conventional" and "unconventional"
- Data from Subpart W reporting may provide more complete well counts by well type

