

25th world gas conference "Gas: Sustaining Future Global Growth"

# **Study Group 4.3 Report**

**Unaccounted for Gas** 

By: Barbara Jinks, Study Group Leader

Date: 7 June 2012

Venue: KL Convention Centre





Host

MALAYSIAN Gas

ASSOCIATION

Host Sponsor









IGU

KUALA LUMPUR

# Agenda



- Session Introduction
- SG4.3 Report
  - Scope and methodology
  - Survey respondents
  - Key findings
  - Recommendations



Tasks



Identify the main components of UFG Define proper metrics to measure or calculate UFG Review approaches adopted for UFG management (technically and commercially) Consider whether a tool could be designed for use to approach measurement or calculation of UFG



# Methodology







#### **Survey respondents**





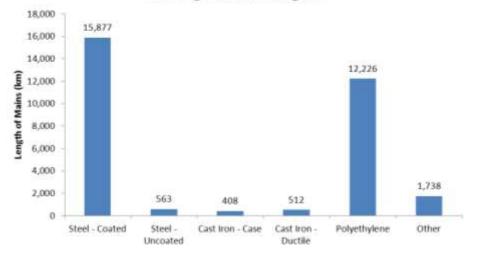
Is your company operating in a liberalised market?



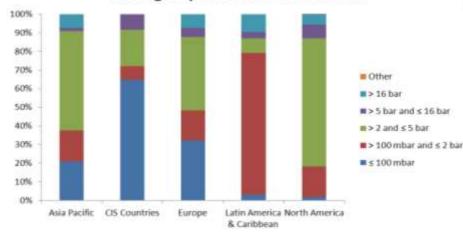
# **Survey respondents**

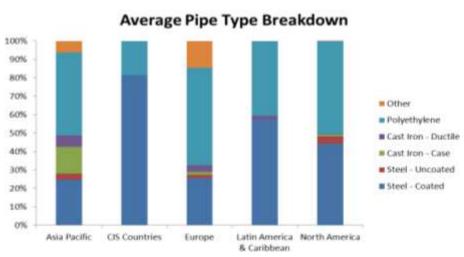






**Average Pipe Pressure Breakdown** 







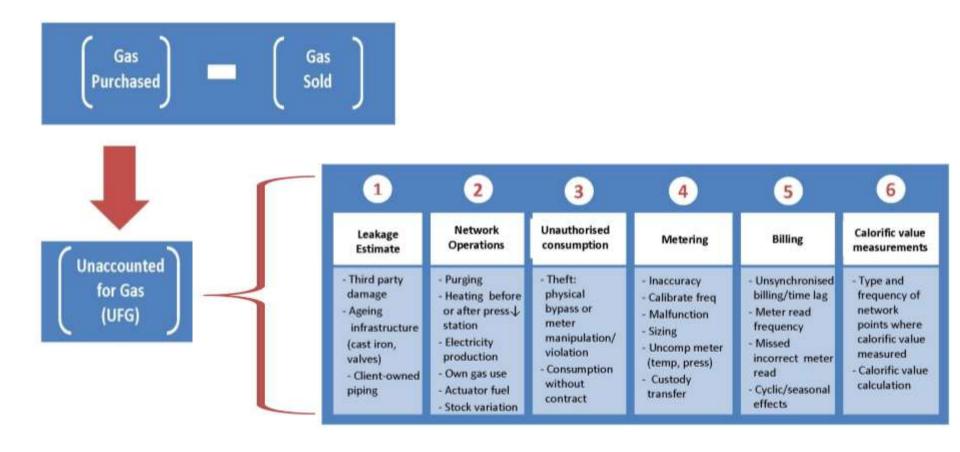


UFG is the difference between gas entering a distribution system at the point of custody transfer and that which can be measured and billed at all delivery points over a defined period of time.



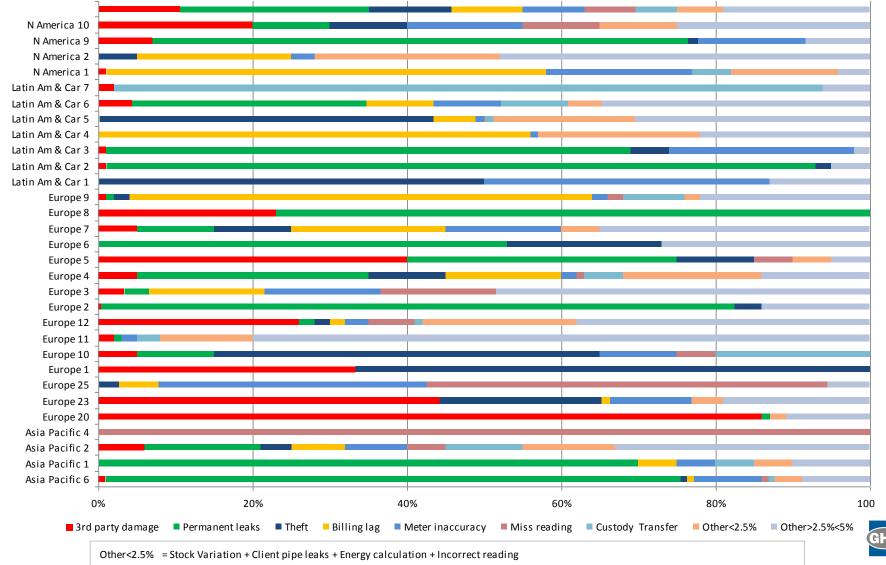
# Key finding 1 UFG components







#### **Key finding 2 UFG components**



KUALA LUMPUR

GU

Other >2.5%; <5%= Purging + Other Operational loss + Own gas use + Uncompensated meter + Meter malfunction + Estimation method

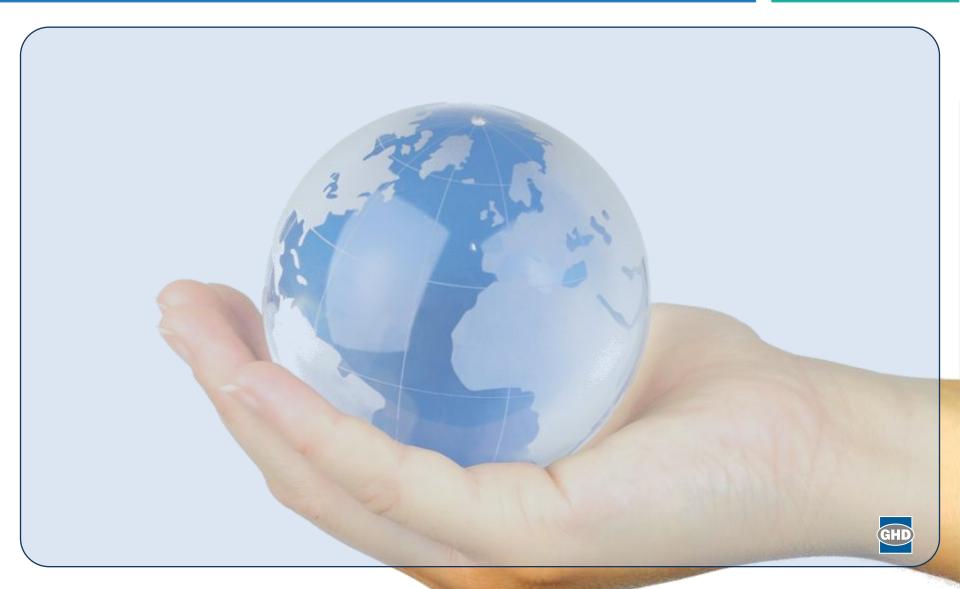
# **Key finding 3 UFG drivers**



	Rank			
Driver or UFG Component	Most common UFG factor being addressed	Most important driver	Largest single UFG component	UFG topic being researched
Meter accuracy	1	2		1
Leakage reduction	2	1	1 (cast iron) 97%	2
Cost and efficiency		3		
3 <sup>rd</sup> party damage	1			
Illegal consumption	3		3 (67%)	3
Accuracy of CT meter			2 (90%)	









It is more beneficial to look for best practice to *reduce* UFG rather than look for methods to quantify it





GHD

UFG workshops should be held between DSOs to disseminate knowledge and look for methods to manage UFG



DSO senior management should consider UFG as an integrated strategic issue across all parts of the business

- including a tailored plan to identify UFG sources and management





Incentives should be created by regulators on a country basis to study the problem of UFG and introduce reduction practices

- such as frequency of leakage survey, incentive for replacement of networks and schedules to check meter accuracy



DSOs should seek funding for innovation and research under the heading of UFG

- as an important commercial, safety, social and environmental concern



#### CONCLUSION



# If you seek to understand UFG - to be able to measure it and therefore reduce it –

# YOU WILL HAVE A MORE SUCCESSFUL BUSINESS







# Thank you Tarimah kasih

barbara.jinks@ghd.com