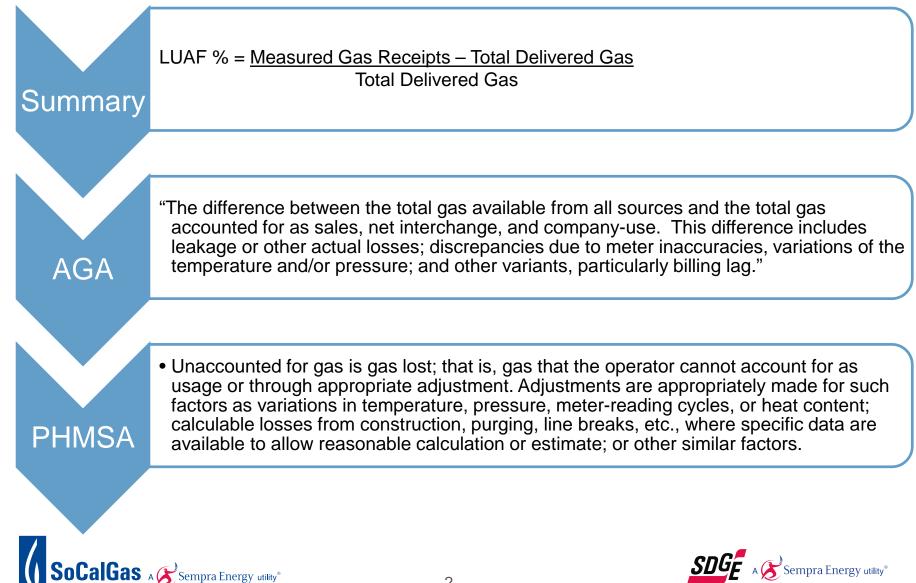




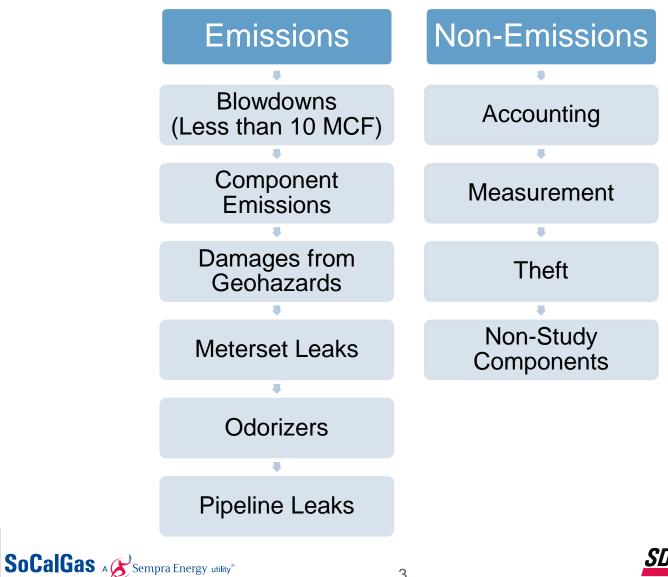
INTRODUCTION TO LUAF

Deanna Haines Director of Environmental Policy November 16, 2018

What is LUAF?



LUAF Components





Why Should we Stop Talking About LUAF?

Annual Emissions Report

- Storage System Leakage
- Excavation Damages
- Other Outside Forces Damage
- Blowdowns Emissions
- Compressor Emissions

Trans. & Dist
 & Leakage

- Some Damages
- Blowdown
- Equipment Vented Emissions

LUAF

- Accounting Adjustment
- Measurement Error
- Theft/Diversion
- Non-study Components



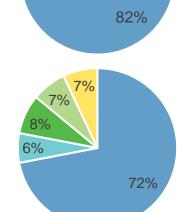


Historical LUAF Analysis at SoCalGas and SDG&E - Accounting - Leakage

1991

Study conducted to analyze UAF components
Revealed significant shift in relative size of contributions
Demonstrated only 8% of UAF was due to leakage

- Addendum to update 1991 study for both SoCalGas and SDG&E
- Key data change included ultrasonic meters used to serve large customers
- Components attributed to core and noncore customer classes



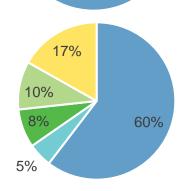
6%

2017

SoCalGas A Sempra Energy utility®

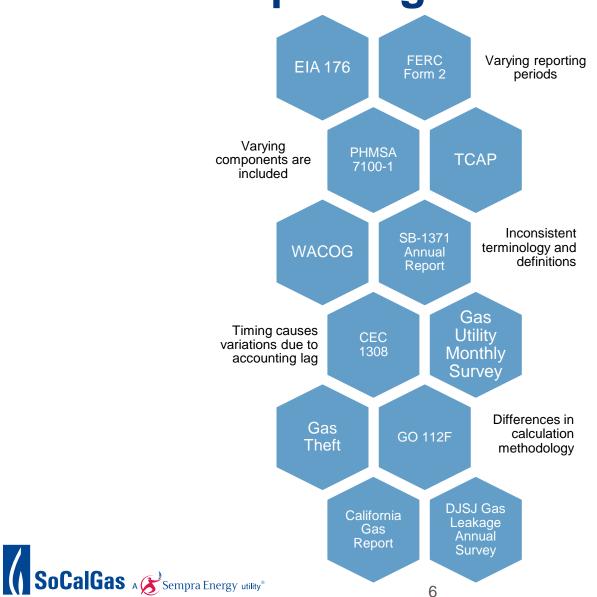
2006

- SoCalGas and SDG&E began reporting emissions in Annual Emissions Report
- Emission reporting is based on emissions factors from national sources, not specific utility studies
- For consistent reporting between Emissions Report and G.O. 112F, contributions to LUAF were adjusted from historical studies
- Emissions are now accounted for, do they belong in UAF?





Reporting variations





2017 LUAF Component Breakdown

