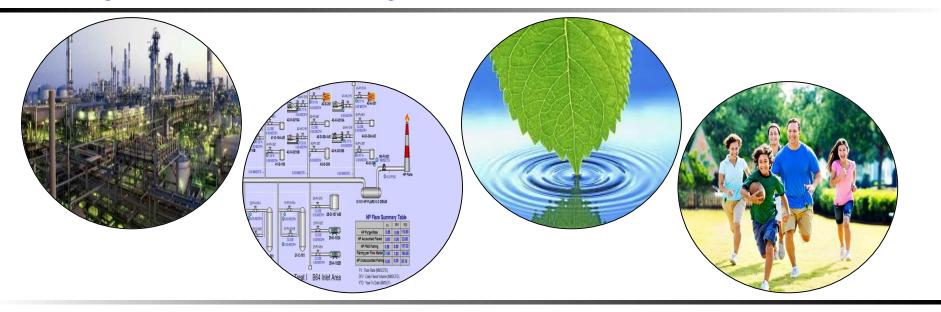


Saudi Aramco Methane Reduction Efforts

Flaring Minimization Program



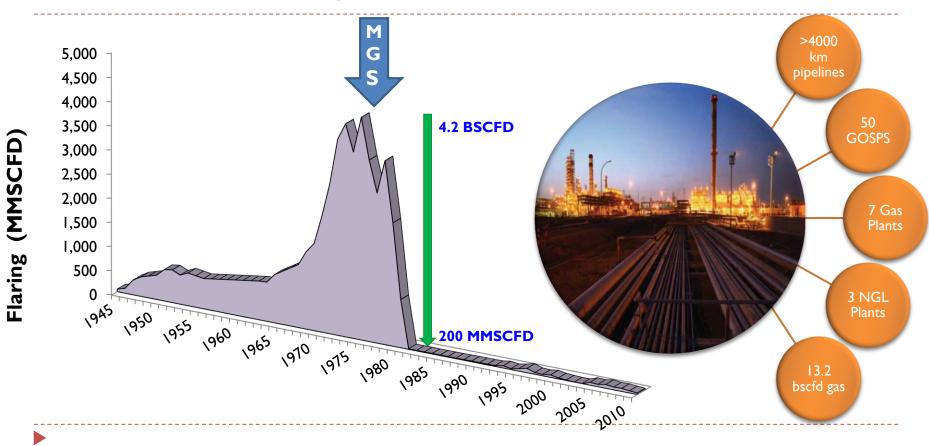
Adel S. Al-Ghamdi

Saudi Aramco, P&CSD

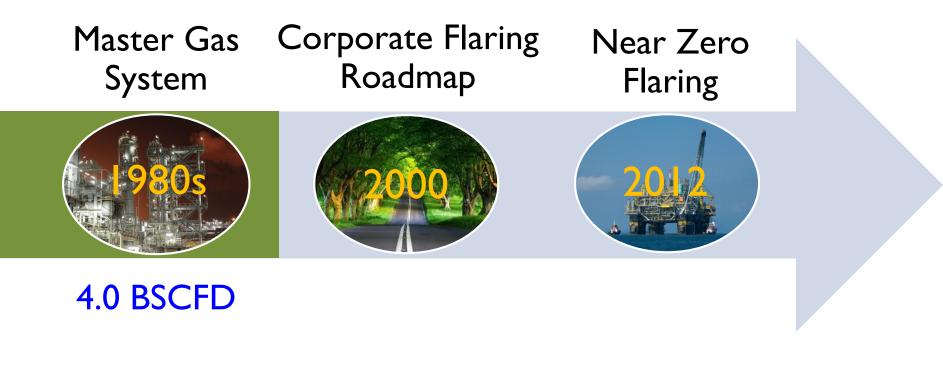
Saudi Aramco Methane Reduction Efforts *Flaring Minimization Program*



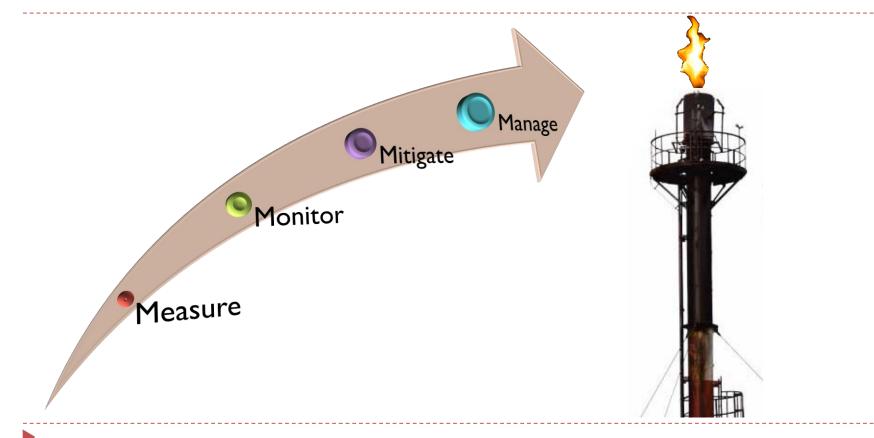
Master Gas System (95% Reduction)

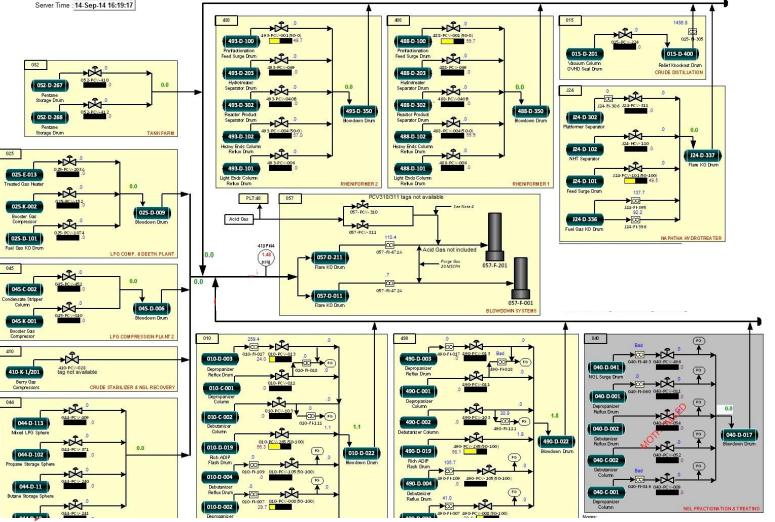


Saudi Aramco Methane Reduction Efforts *Flaring Minimization Program*

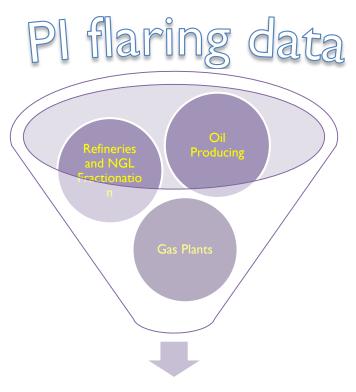


Corporate Flaring Roadmap





Corporate Flaring Roadmap - Monitor



Corporate Flaring Monitoring System (CFMS) Database

Corporate Flaring Roadmap - Mitigate

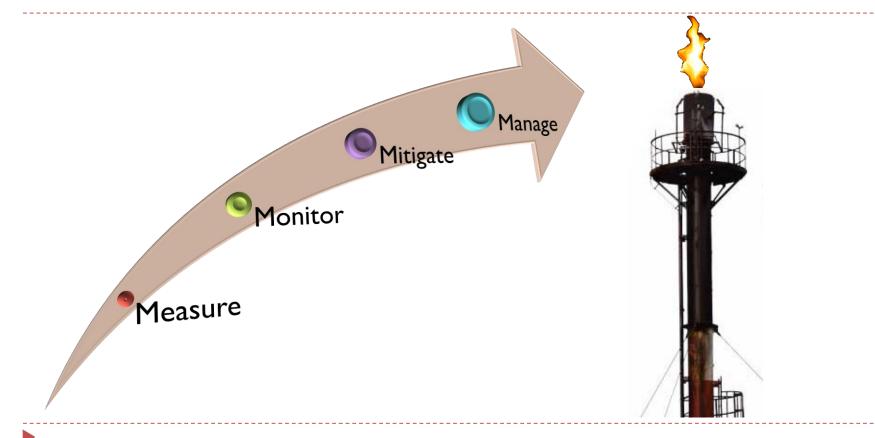
- Site Specific annual Flaring Mitigation Plan
 - Detailed description of Flare System
 - Details of flaring amount and reasons
 - Long and short term mitigation measures

Approved by facility manager (SAES-A-102, SAEP-400)

Corporate Flaring Roadmap - Manage

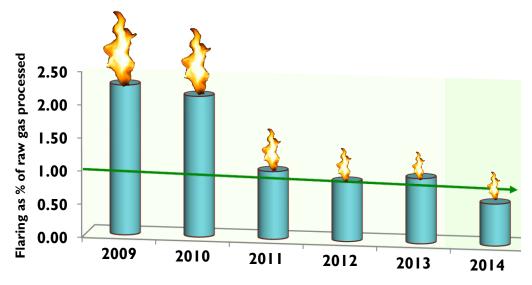
- For accountability, consistency and continues improvement, the Flaring Minimization Program is governed by procedures and standards:
 - SAEP-400: Guidelines for Facility Flaring Minimization Plan
 - SAEP-400A: Guidelines for Real-Time Flare Monitoring System Development
 - SAES-A-102: Ambient Air Quality and Source Emissions Standards
- KPI Established to Manage Flaring Loss

Corporate Flaring Roadmap

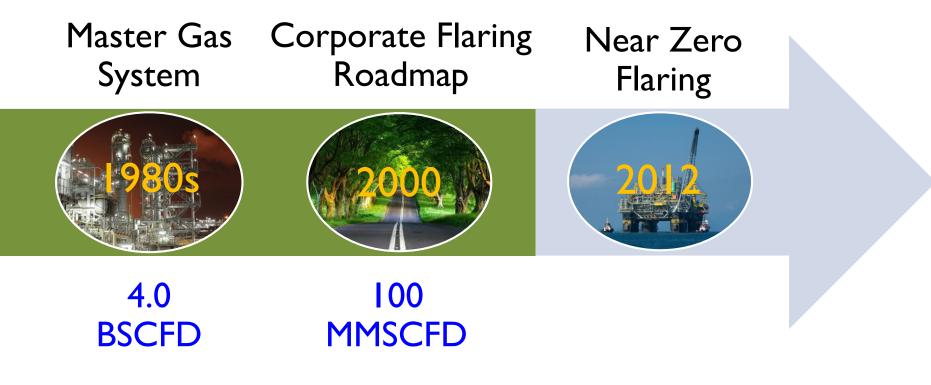


Corporate Flaring Roadmap

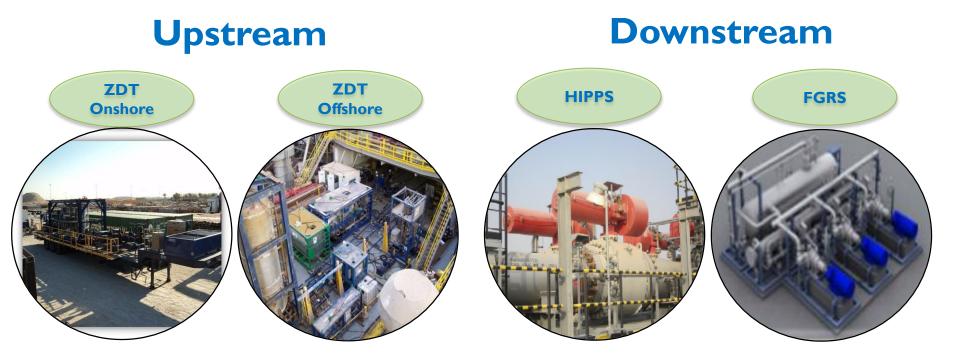
- 50% Flaring Reduction (2012)
- 200 MMSCFD to 100 MMSCFD



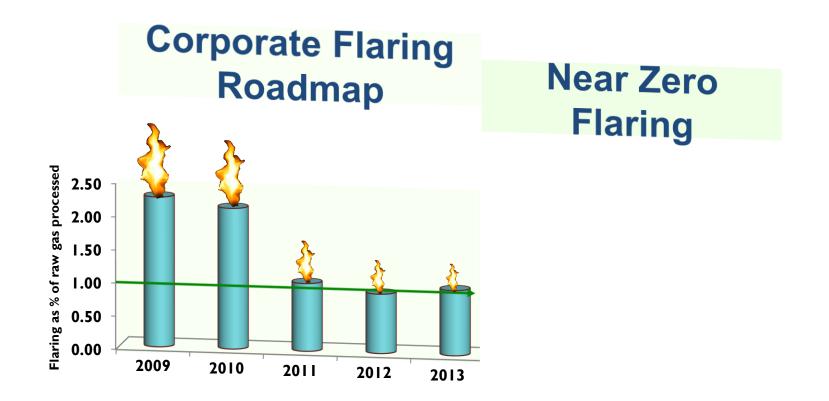
Flaring Minimization Program



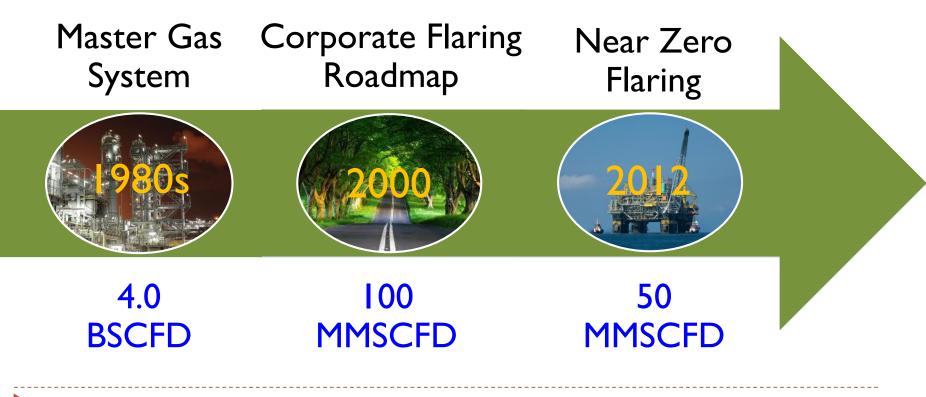
>\$400 MM Towards Near Zero Flaring



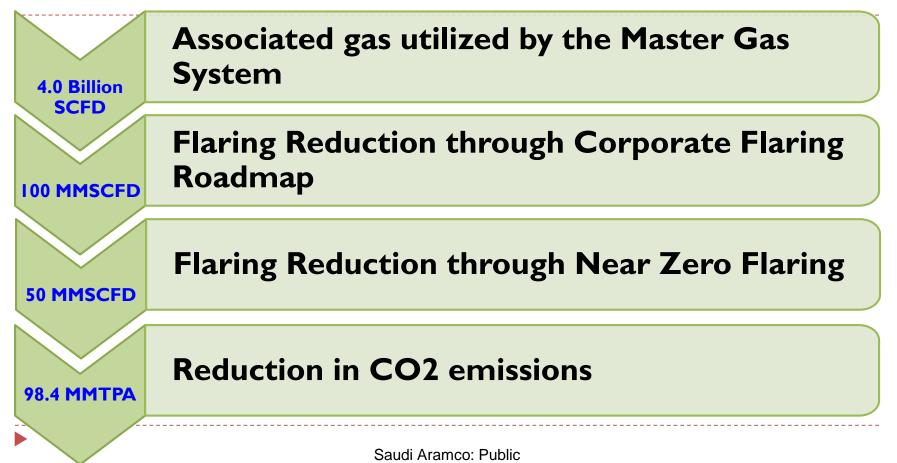
Near Zero Flaring



Flaring Minimization Program



Achievements



Global Recognition







THANKYQU