

26th World Gas Conference

1 – 5 June 2015, Paris, France



Gas Flaring & Venting Reduction in NIGC

Hamid Reza Araghi

Deputy Oil Minister, Islamic Republic of Iran

Managing Director of National Iranian Gas Company (NIGC)





A Brief Sustainability Report on Carbon Management in National Iranian Gas Company

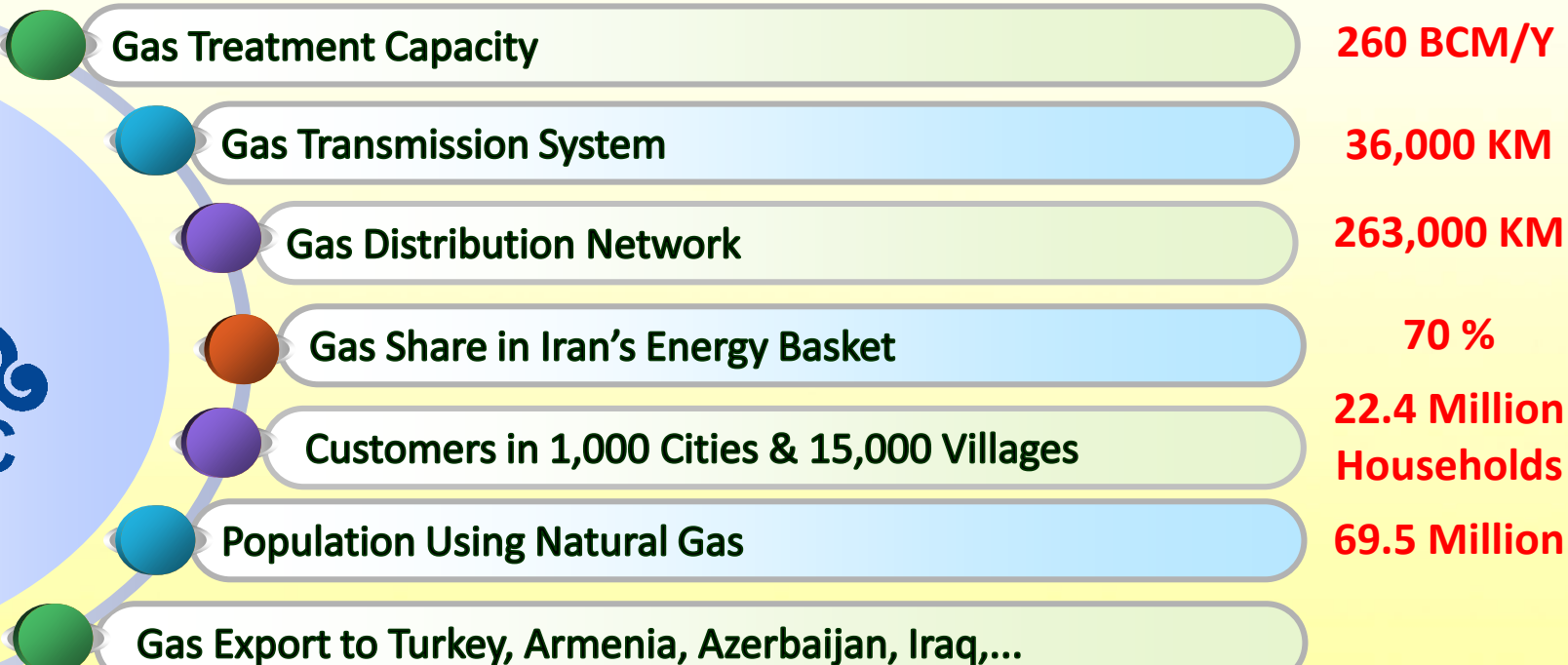


Contents

- ❖ Introduction
- ❖ Commitments & Participations
- ❖ Greenhouse Gases Reduction Activities
- ❖ International Cooperation
- ❖ Innovative Approaches for Flare Reduction
- ❖ Success Stories
- ❖ Recommendations






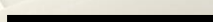





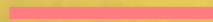

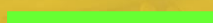



NIGC at a Glance




Gas Treating Plants

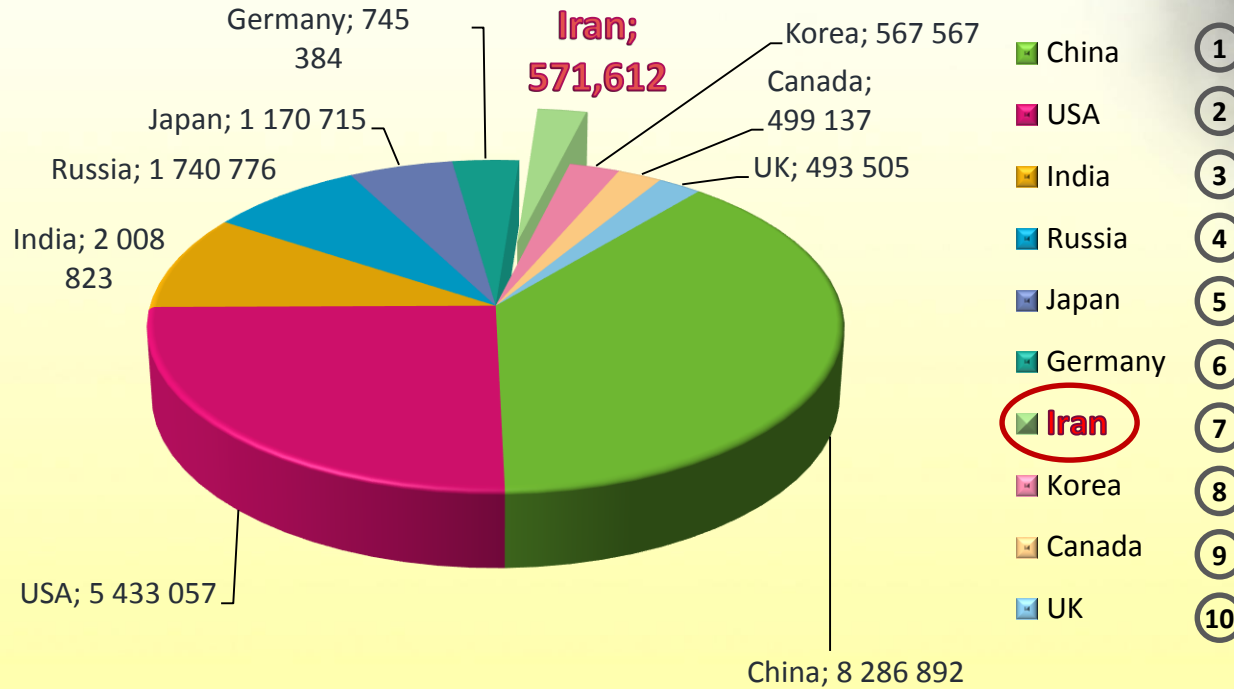




-  IGAT 1
-  IGAT 2
-  IGAT 3
-  IGAT 4
-  IGAT 5
-  IGAT 6 & Export Lines to Iraq
-  IGAT 7 & Export Lines to Pakistan, Oman
-  IGAT 8
-  IGAT 9 & export line (Europe)
-  IGAT 10
-  North & North-East 2nd line
-  IGAT 11
-  Sarakhs-Neka-Rasht
-  Export line (Armenia)
-  Export line (Turkey)

 Under Construction Lines

CO₂ Emission by Country (Kt)



Greenhouses Reduction Activities: Flaring Case Study

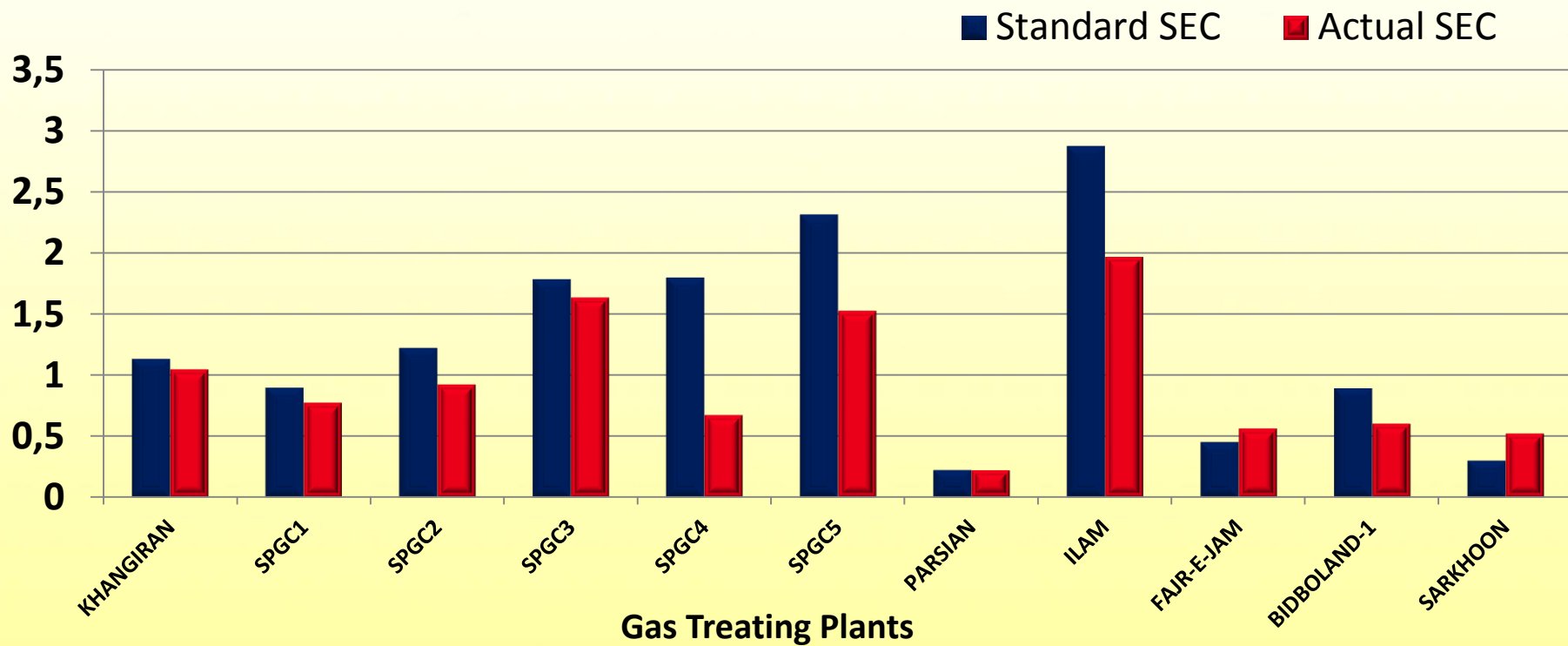
- Flaring Management in 11 Gas Treating Plants
- More than 60 Completed Projects on Energy Saving & Emission Reduction
- More than 42 Ongoing Projects on Energy Efficiency & Flare Recovery
- Feasibility Study for Zero Flaring in All Gas Treating Plants

Flare Index improved from 1.39 % to 0.77%

2012-2015



Special Energy Consumption (SEC) in Gas Treating Plants



Emission Inventory Software

- Development of GHGs/Air Pollutants Emission Inventory Software & Reporting Systems for Gas Industry
 - Based on Approved Standards & MRV Approach
 - Customized Emission Reporting on Gas Treating Plants, Transmission Pipelines & Pressure Compression Stations
 - Reporting in International Format

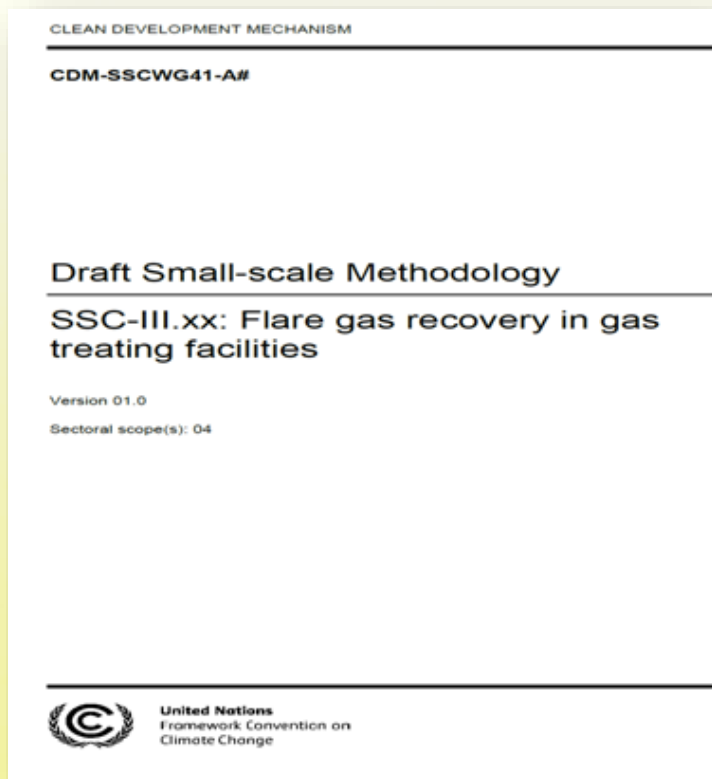
Infrastructures Development for Emission Reduction

Replacing Fossil Fuels by Natural Gas (Data for 2014)

Consumption Sector	Amount (BCM/Y)
Power Plant	9.5
Industry	0.5
Residential & Commercial	1.6
Transportation	0.15
Total	11.75



International Cooperation & Achievements



- The First & Only registered CDM Methodology in Middle East in Gas Treating Facilities
- The CDM Project for SQGC Flare Gas Recovery under the Methodology, Requested for Registration at UNFCCC on May 2015

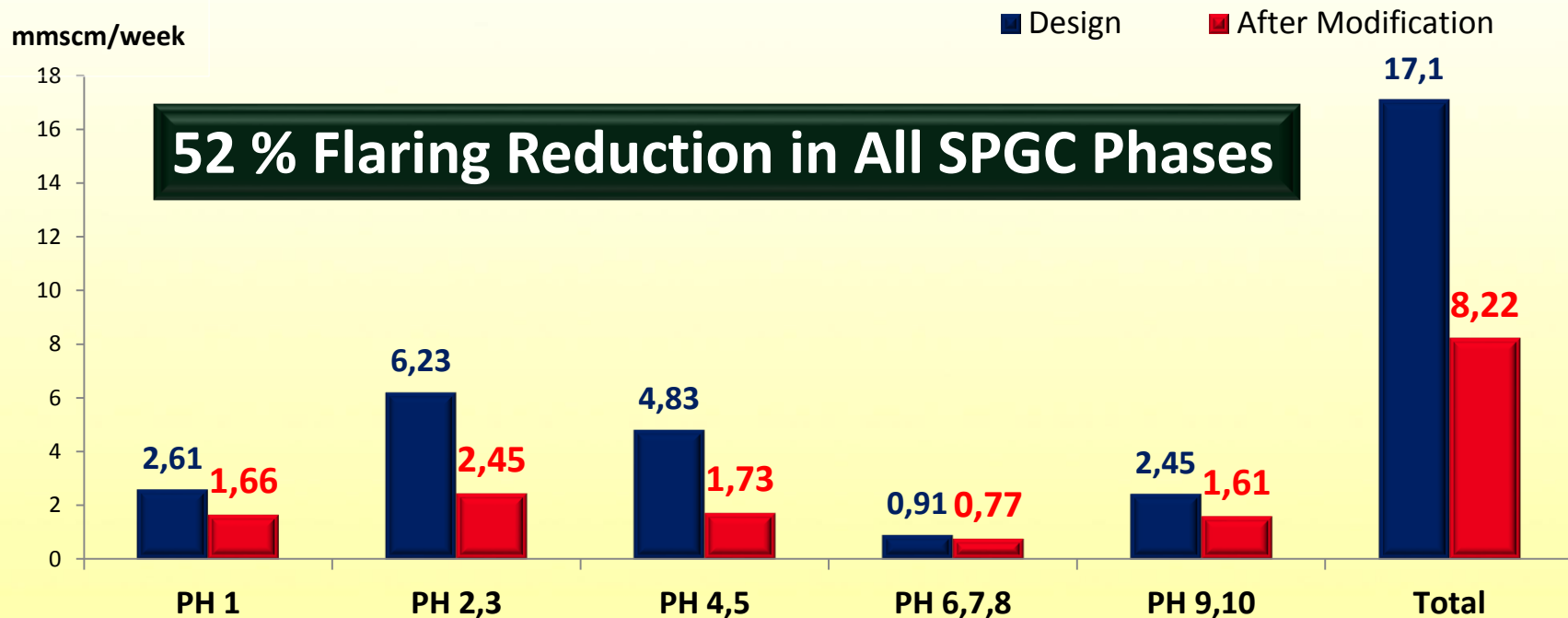


Success Stories

- FGR System Development in Sarkhoon Gas Treating Plant under Clean Development Mechanism (CDM)
- LPG Production from Flaring Gases
- Using Flash Gases as a Fuel in Utility Systems

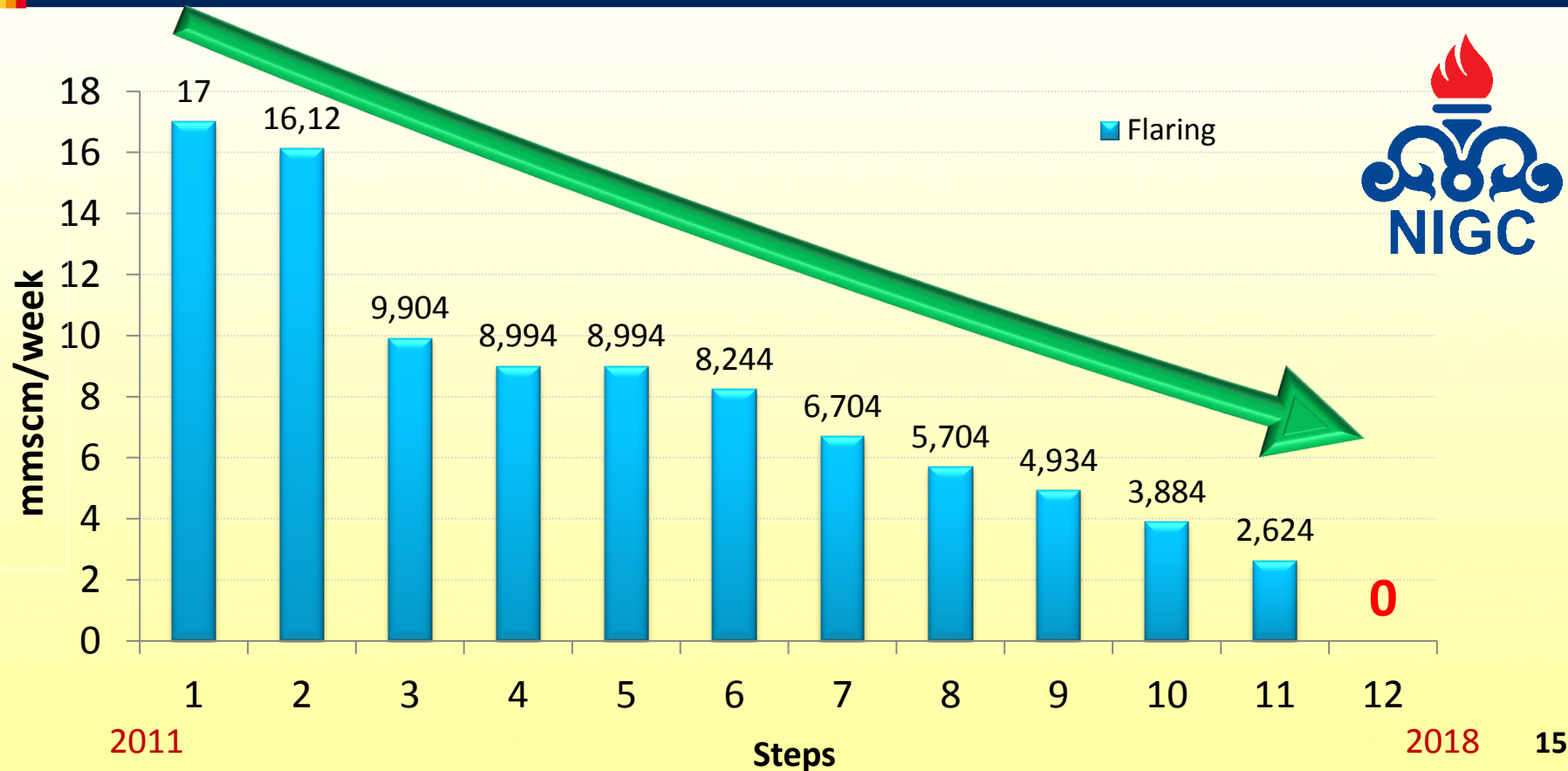


Success Stories: Flaring of South Pars Gas Phases (2011-2014)



South Pars Gas Company (SPGC) Phases

Success Stories: SPGC's Projects toward Zero Flaring (by 2018)



Recommendations

- Establishing an Expert Communication Team to Share Their Experiences
- Technology Providers Participation in Iran's Emission Reduction Projects
- International Communities Support & Participation in Iran's Flaring Reduction Projects



**FLARING & VENTING REDUCTION
IN ACCORDANCE WITH WGC 2015 THEME:**

GROWING TOGETHER TOWARDS A FRIENDLY PLANET



THANK YOU FOR YOUR KIND ATTENTION

