

THE 2ND ANNUAL

# CNG-NGV ASIA FORUM

THE GREEN HIGHWAY ACROSS ASIA PACIFIC

CNG

3-5 August 2009  
Jakarta, Indonesia

**BUILDING EFFECTIVE GOVERNMENT-PRIVATE SECTOR PARTNERSHIPS TO PROMOTE CNG AND NGV THROUGHOUT  
INDONESIA**

3-5 August 2009  
The Shangri-La Jakarta, Indonesia

**Organized by:**



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**Exhibitors:**



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## DRAFT AGENDA

### UTILIZING CNG IN THE ENERGY MIX

- Allocating natural gas production to CNG for industrial and public use
- CNG as the favoured alternative fuel
- Opportunities and challenges

#### ➤ MINISTRY OF ENERGY & MINERAL RESOURCES

### URBAN TRANSPORTATION PLANNING AND ENCOURAGING THE USE OF NATURAL GAS IN THE TRANSPORTATION SECTOR

- Promoting the use of natural gas in the public transportation mix
- Challenges and opportunities
- Future plan beyond 2009

#### ➤ MINISTRY OF TRANSPORTATION

### CNG AS AN ENVIRONMENTALLY FRIENDLY ENERGY SOURCE

- Environmental effects of CNG
- Cost benefit analysis between CNG and other fuel source
- Encouraging local use of clean, environmentally-friendly source of energy into the transportation mix

#### ➤ MINISTRY OF ENVIRONMENT

### FOSTRING PUBLIC-PRIVATE PARTNERSHIPS IN PROMOTING VIABLE CNG/NGV PROJECTS IN INDONESIA

- What are key policies and commercial factors that can make CNG/NGV projects work in Indonesia?
- What has changed for CNG/NGV projects since 2008?
- What you can learn from existing projects and how can you make CNG/NGV projects viable in the highly potential Indonesian market?

#### ➤ CNG ASSOCIATION OF INDONESIA

### SECURITY AND ALLOCATION OF ADEQUATE GAS SUPPLY FOR THE NGV INDUSTRY

- Analysis of the middle-long term gas in Indonesia
- Sustainable supply for NGV implementation throughout Indonesia's main cities
- Ensuring availability of gas supply in Indonesia

#### ➤ PT PERUSAHAAN GAS NEGARA (PERSERO) TBK

### UPDATES ON JAKARTA'S ENERGY DIVERSIFICATION PROGRAM FOR TRANSPORTATION SECTOR

- The policy acceleration
- Updates on the energy diversification program
- Opportunities and challenges
- Recommendations and future updates

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➤ **JAKARTA MINING AGENCY**

**PROMOTING CNG AND NGV UTILIZATION IN THE PROVINCIAL CITY**

- Getting the buy in for CNG and NGV utilization in provincial city
- Opportunities and challenges
- Case study

➤ **PROVINCIAL GOVERNMENT OF PALEMBANG**

**NGV IMPLEMENTATION AND USAGE IN SURABAYA**

- Potential NGV growth in Surabaya
- Opportunities and challenges
- Case study

➤ **PROVINCIAL GOVERNMENT OF SURABAYA**

**GROWTH OF NATURAL GAS VEHICLES IN INDONESIA SINCE 2008**

- Updates on NGV growth in Indonesia
- Opportunities and challenges
- Growth in major cities within Indonesia

**BOGOR'S EXPERIENCE WITH CNG-POWERED THREE WHEELERS**

- Adopting and implementing CNG-powered three wheelers
- Opportunities and challenges
- Case study in Bogor city

➤ **PROVINCIAL GOVERNMENT OF BOGOR**

**FINANCING CNG/NGV PROJECTS IN INDONESIA**

- What are the key considerations and returns such projects?
- Identifying the best financing strategy for your project
- Overcoming and addressing the financial challenges of investing in CNG/NGV projects

**THE BUSWAY EXPANSION PROJECT: EFFECTIVENESS OF USING CNG-POWERED BUSES**

- Operator's experience
- Operational challenges
- Infrastructure expansion and project effectiveness

➤ **TRANSJAKARTA**

**USING CNG-POWERED VEHICLES FOR TAXI FLEETS: AN OPERATOR'S EXPERIENCE**

- Zebra Taxi's experience with NGV
- Cost savings and fleet effectiveness
- Overcoming infrastructure challenges
- Future expansion

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- PT ZEBRA NUSANTARA

## ANGVA ROUNDTABLE SESSION

*Successful government to private enterprise partnerships in pushing NGV programs*

This 90 minutes interactive and informal roundtable discussion will focus on the one critical factor in implementing a successful NGV program - *strong governmental support*.

There must be strong *governmental support* and a clear, consistent *governmental* policy on NGV for such programs to exist. The governmental support and involvement to the NGV industry and its programs must come from both national government and regional governments. This open discussion will share practical and successful case studies relating to thriving NGV programs in countries like Pakistan, India, Thailand, Bangladesh and Malaysia. Panel members will be made up of representatives from key players from Malaysia, Thailand, India, Bangladesh and Pakistan among others.

- Facilitated by Lee Giok Seng, *Executive Director, ANGVA*

## REGIONAL CASE STUDIES

### STRONG GOVERNMENTAL SUPPORT: WHY THAILAND IS SUCCESSFUL WITH ITS NGV PROGRAMS

- PTT PLC

### WORKING PARTNERSHIPS WITH THE GOVERNMENT TO FAST TRACK NGV PROGRAMS IN SINGAPORE

- William Aw, *Managing Director, SMART ENERGY*

### HOW PAKISTAN ACHIEVES THE 2MILLION NGV MARK WITH STRONG GOVERNMENTAL SUPPORT

- OIL AND GAS REGULATORY AUTHORITY (OGRA)

### THE IGL'S NEW DELHI CASE STUDY: THE GOVERNMENT INITIATIVES BEHIND THE SUCCESS

- Manjit Singh, *Chief General Manager – Engineering and Projects, INDRAPRASTHA GAS LTD*

### BANGLADESH'S CNG/NGV GROWTH BEYOND 2009

- PETROBANGLA
- RUPANTARITA PRAKRITIK GAS COMPANY LTD

### PUSHING MALAYSIA'S SUCCESSFUL NGV PROGRAM FORWARD

- M Haikal Zubir, *Head – Operations Technical Services: NGV Department, PETRONAS DAGANGAN*

### SECURITY OF NATURAL GAS SUPPLY FOR NGV DEVELOPMENT IN ASEAN COUNTRIES

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- **Zainal A Matassan**, *Managing Director, MATASSAN (M) SDN BHD*  
*Former Secretary-in-Charge, ASEAN COUNCIL ON PETROLEUM (ASCOPE)*

## TECHNOLOGICAL HIGHLIGHTS

### SETTING UP A SAFE AND COST EFFECTIVE CNG REFUELLING STATION

- Choosing the right compressors , ground storage cylinders and dispensers
- Size does matter: Why is sizing important?
- Opportunities and challenges of setting up a refuelling infrastructure

### THE RIGHT CYLINDER FOR THE RIGHT PROJECT

- What are the key considerations you need to know in choosing the right cylinders?
- What pitfalls you should avoid in choosing the right cylinder?
- Adopting your equipment needs to local market conditions and statutory requirements

### OPTIMIZING STORAGE OF CNG TANKS

- Overcoming storage challenges of CNG cylinders
- Maximizing cylinder capacity
- Optimizing volume and wall thickness for CNG cylinders for enhance performance and safety considerations
- Appropriate safety devices and safety standards in CNG tanks

### CONVERTING CURRENT TRANSPORTATION FLEETS EFFECTIVELY AND SAFELY

- CAPEX of converting : Cost benefit analysis, commercial gains and ROI
- Converting existing vehicles: Challenges and viable solutions
- Countering storage challenges in your transportation fleet
- Standards and inspection to ensure safety of converted vehicles
- Financing options and incentives to end-users

## MARINE CNG

### COMMERCIALIZATION AND CNG TRANSPORTATION TECHNOLOGY UPDATES IN 2009

- CNG marine as a stable and long-term resource base into existing and new pipeline grid
- Technological updates

### FEASIBILITY AND IMPLEMENTATION OF MARINE CNG IN INDONESIA TO CAPTURE STRANDED GAS FIELDS

- CNG Transportation option to capture and transport gas from offshore stranded gas locations
- Commercialization reality for marine CNG
- Case study updates

### CNG TRANSPORTATION VS LNG TRANSPORTATION

- Comparing the supply-chain economics of CNG with LNG
- CAPEX, OPEX and ROI
- Project feasibility/Implementation in Indonesia

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## SAFETY

### HARMONIZATION OF SAFETY AND STANDARDS AND EFFECTIVE IMPLEMENTATION

- What standards are currently being used?
- Ensuring consistent standards are implemented across every project
- Enforcing effective and reliable standards across all CNG/NGV projects

### REINFORCING CNG CYLINDER SAFETY

- Enforcing and ensuring cylinder safety guidelines
- Linking safety and fuel tank technologies
- Harmonization of CNG tank standards

## • ANGVA LECTURE SESSION • WEDNESDAY, 5<sup>th</sup> AUGUST 2009 • 09.00 – 11.00 •

### OVERVIEW OF CNG CYLINDER

This interactive and informal lecture and discussion will cover the general overview of safety issues coupled with in-depth discussions on cylinder safety. Among the topics to be covered include cylinder handling, installation and inspection. This open discussion will share knowledge and experience of cylinder safety issues and challenges relating to NGV.

- Facilitated by Lee Giok Seng, *Executive Director*, **ANGVA**

## • SITE TOUR • WEDNESDAY, 5<sup>th</sup> AUGUST 2009 • 14.00 – 16.00 •

Delegates will have a unique opportunity to see first-hand a CNG refuelling infrastructure within Jakarta. Although CNG-NGV facilities and infrastructure are mostly in its infancy stage, the development of new CNG-NGV projects in Indonesia and its provinces continue to fuel the output of this dynamic industry.

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