

CNG PICKS UP MOMENTUM IN INDONESIA

LAUNCH OF PERTAMINA'S CNG STATION PRECIPITATES A RESURGENCE OF INDONESIA'S GAS FOR TRANSPORTATION AND INFRASTRUCTURE DEVELOPMENT PROGRAMME

- Stephanie Chan @ The 7th NGV & Infrastructure Indonesia Forum



Stephanie Chan

The 7th NGV & Infrastructure Indonesia Forum, held at the Dharmawangsa Hotel, Jakarta, Indonesia on 30th January – 1 February 2013 reinforced itself to be one of the most important networking gatherings for the NGV industry.

Collectively hosted and supported by Asia Pacific Natural Gas Vehicles Association (ANGVA) and CNG Association of Indonesia (APCNGI), this business-critical forum was attended by 229 delegates from over 16 countries and attracted 23 exhibitors, exhibiting their products and services to the captive market.

This forum is also endorsed and supported by PT Pertamina.

The Gold Sponsors for this event were Lincoln Composites and SAFE S.P.A.

The timely, commercially-driven and relevant forum served as the most relevant NGV platform in Asia discussing Indonesia's Gas for Transportation and Infrastructure Development programs – which was the main objective of this forum. The much anticipated launch of PT Pertamina's Daan Mogot Station in December 2012 had served as the perfect springboard for an unprecedented NGV uptake in Indonesia. In a recent interview, the Energy Minister HE Jero Wacik was quoted as saying that private stakeholders from CNG/NGV private sector will be collectively involved in setting up NGV workshop infrastructure. In another timely message, Transjakarta stated that more CNG buses will be added as additional filling stations are expected to be ready.

On 30th Jan 2013, a site visit to PT Pertamina's Daan Mogot NGV Refuelling Station was arranged. This NGV station is the first of 33 planned new NGV stations to be built by Pertamina. The Daan Mogot Station has 2 dispensers with 4 hoses, and two compressors of 1500m³/hr each. This primary role of this station was to serve mainly the Transjakarta BRT CNG buses. In addition, Pertamina also launched a brand name for the retailing of CNG to the transport sector, known as "ENVOGAS" which is derived from the words Energy, Environment and Gas. Over 20 delegates from various countries attended the site tour.

The main conference was opened by Mr. Danny Praditya, President of APCNGI. Dr. Qoyum Tjandranegara, Commissioner of Gas



Pertamina's Daan Mogot NGV Refuelling Station hosts over 20 delegates during the 7th NGV & Infrastructure Indonesia Forum



Gilbert von der Aue from C. Melchers shows participants the ins and outs of converting a CNG vehicle

Infrastructure from the downstream regulator BPH MIGAS gave a keynote speech on "Recommendation to Accelerate the Development CNG Infrastructure Network In Jakarta by Involving Private Initiatives". Among the recommendations given to accelerate the infrastructure development and the distribution of CNG to the transport sector involves giving incentives such as favourable gas and CNG pricing, other stimulus and security of

supply to the private sector which will enhance the implementation collectively. He also mentioned that procurement of conversion Kits and training for NGV workshops could be borne by the government through the State Budget or other source of funds from AFC / Worldbank.

Mr. Lee Giok Seng, ANGVA's Executive Director congratulated and welcome the Indonesian Ministry of Energy and Mineral Resources and PERTAMINA as members of ANGVA. Currently, he believed that there are strong and compelling reasons for Indonesia to use natural gas for the Transport Sector, as natural gas or NGV or CNG can provides Indonesia with energy security, economic and environmental benefits. The time is now right for Indonesia to move more rapidly into NGV, but at the same time, the right things must be done. The right government support and policies; and the right benefits to key stakeholders along the supply chain of the NGV industry must be put in place. The infrastructure to support the production, supply, transmission, distribution, retailing, utilization and after-market services of natural gas as fuel for the transportation sector must be carefully put in place. And these must be done for the long-term development, growth and sustainability of the NGV market.

PT Pertamina's Linda Sunarti continued the forum with a presentation on "Infrastructure Development And Expansion to Support Indonesia's NGV Initiatives". She began by stating that Indonesia's domestic gas demand will grow by 6-8% annually. She also highlighted that Indonesia is the 10th Gross Natural Gas Producers in the world. Among the current challenge of CNG in Indonesia relates to In Indonesia, fuel subsidy by the government, thus the price differential between subsidized fuels is not significant enough to encourage people to move convert to CNG. However, the government has already created a plan to roll out CNG across major cities in Indonesia. To support the government's initiatives, Pertamina plans to build more CNG infrastructure in 2013.

The Ministry of Industry was represented by the Head of Industrial Component, Yan Tandiele. He emphasized the Ministry's readiness in supporting the fuel-gas conversion framework. He also presented that in 2013, the Ministry will make avail around 10000 converter kits. To ensure that this program becomes successful, he highlighted key areas which must be addressed. Among the areas include the training and upgrading of conversion personnel and workshops. Another key area that must be looked at closely is safety.

The main sponsors for the event, Lincoln Composites and SAFE S.p.A took the next two presentations prior to lunch. Lincoln's Frank Haberli gave a presentation entitled "Effective Lightweight Cylinder Solutions For Light Duty Vehicles And Heavy Duty Vehicles" while SAFE's Jonas Giuliani presented on "Fast Tracking NGV Infrastructure Expansion With Effective And Tailored Refuelling Solutions". Both these presenters shared practical solutions that could be successfully applied in many upcoming CNG/NGV projects anticipated in Indonesia.



A: Keynote by Dr. Qoyum Tjandranegara
Commissioner of Gas Infrastructure,
BPH MIGAS

L: Opening Keynote by Danny Praditya
President, APCNGI



Attendees at the 7th NGV & Infrastructure Indonesia Forum 2013



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After lunch, a panel discussion took place, led by ANOVA's Lee Giok Seng. Entitled "Building a Sustainable Infrastructure", panel members include Fazal Khan of Emirates Gas, Rolando V. Oliquino, Jr from Philippines National Oil Company - Exploration Corporation, Robbi Sukardi from CNG Association Of Indonesia (APCNGI) and Mariarosa Baroni of NGV Italia.

Panel members share their experiences in building NGV infrastructure in their countries and recommendations on how Indonesia can move forward with sustainable NGV Infrastructure. Following the panel, an interesting presentation took place in the form of from CNG Association Of Indonesia (APCNGI)'s Toto Santoso. Entitled "The One Million NGV Dream for Indonesia", Toto believes that it should start in East Java where there is sustainable source of natural gas. The NGV infrastructure in East Java is growing rapidly thus Toto saw a huge potential for expanding the number of NGVs on the road, especially in East Java.

Following this, two other presentations - took place by C Melchers GMBH and Rail SPA. C Melcher's Gilbert Von Der Aue spoke on "CNG Fleet Conversion Case Study- European Engineering, In Asian Conditions" while Rail's Luigi Stevani touched on the topic "LPG/CNG Injectors"

Day Two conference began with Rolando V. Oliquino, Jr from Philippines National Oil Company - Exploration Corporation. Rolando presented on "Status and Future Plans of the NGVPPT in the Philippines". NGVPPT was launched by the Philippines's government in 2002; consisting of "Pilot Phase" and "Commercial Phase". In 2012, Department of Energy (DOE) mandated PNOC EC to take over the NGVPPT role of Shell, thus the program was extended to 2018. PNOC EC is developing 2 Daughter Stations (DS) in Laguna (to replace Shell's existing DS) and Batangas City; expected commissioning in July 2013. Among its long term plans

include involving 1000 bus units running on CNG by 2016, 5 CNG stations in Metro Manila, Laguna and Batangas.

Abd Aziz Miskon, Managing Director/CEO at MISC Integrated Logistics took the podium with a topic "Using A Cost Efficient Transportation System For Mother-Daughter Stations In Malaysia". He discussed the CNG virtual pipe line modus operandi and highlighted the variable operating cost between type I and type IV cylinders.

WEH Gas Technology's Roman Vitomirac took centre stage next with a topic on "Worldwide CNG Refuelling Experience – Comparison of Different CNG Refuelling Interface". Next on stage was Vitkovice General Trading's Managing Director, Martin Litvik. Martin further discussed the topic "CNG Cylinders, CNG Storage And Transport Applications".

The well regarded Dr. Pipon Boonchanta from Kaesetsart University presented on an interesting topic "Impact Of Heavy Duty Natural Gas Vehicles On Air Quality In Bangkok". Thailand is regarded as the beacon of NGV success in South East Asia and had many OEM and repowered CNG buses running in Bangkok. The heavy duty vehicles topic continued with SDEC's Qin Weiwei. Qin elaborated on "Utilizing Natural Gas Engine For Heavy Duty Vehicles In Indonesia", citing repowered heavy applications such as excavators, loaders, trucks and buses as examples.

Last but not least, Alexandre Hintz from PT Power Service Indonesia presented on "Large Diesel Engines Conversions to DDF" He highlighted that such applications have huge potential uptake in Indonesia.

Overall, the event was a success and the organizers are looking forward to the 8th instalment of this important forum in 2014.

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