



# NATURAL GAS AS TRANSPORT FUEL IN MINING, PLANTATION & LOGISTICS

5 -6 NOVEMBER 2014 | NOVOTEL HOTEL,  
BALIK PAPAN, INDONESIA

The 1st Natural Gas Transport Fuel in Mining, Plantation & Logistics enlightened all those who attended, on the prospects of utilizing CNG, LNG and biomethane as a transport fuel in aid of reducing operational costs and the ever present issue of an increasing carbon footprint. The event was

organised by All Events Group and supported by gold sponsors Hexagon Lincoln.

The event was opened by keynote speaker, Robbi Sukardi, Chairman of the CNG Association of Indonesia (APCNGI). This was followed by a short speech by Lee Giok Seng, Executive Director, Asia Pacific Natural Gas Vehicles Association (ANGVA).

The first speech was presented by Kusdi Widodo, General Manager of PT Pertamina Gas Niaga who spoke about, 'Natural Gas Supply and Utilization – Supplier's Perspective'. His speech covered areas including an overview of the gas business in Indonesia, the LNG market in Indonesia and an energy cost comparison between the





**Robbi Sukardi, Chairman of the CNG Association of Indonesia (APCNGI)**



**Lee Giok Seng, Executive Director, Asia Pacific Natural Gas Vehicles Association (ANGVA)**



**Kusdi Widodo, General Manager of PT Pertamina Gas Niaga**



**Lukas Novak, Bifuel Business Development Director ComAP A.S., Mitondho, Management Improvement Manager – Mining Division, PT United Tractors Tbk (UT), Alexandre Hintz, Director, PT Power Service Indonesia**



**TC Goh, Regional Sales Director from Hexagon Lincoln**



**Nattadate Fuangworawong, Senior Specialist for Technology Department, PT Indo Tambangraya Megah (Banpu Group)**

available fuels. CNG was found to be 50% cheaper than regular fuel oil in 2013. He ended the speech talking a bit about their new pilot projects.

After a short networking coffee break, the conference resumed with a Spotlight Session on dual fuel applications for mining. The first to speak on this issue was Lukas Novak, Bifuel Business Development Director ComAP A.S. After speaking a bit about ComAP, Lukas then explained the reason for pushing bi-fuel over using pure gas and the implied cost savings involved. The next to speak on this topic

was Mitondho, Management Improvement Manager – Mining Division, PT United Tractors Tbk (UT). Mitondho spoke on the dual fuel applications with respect to mining activities in Indonesia. He recommended some of the products that were supplied by Tractors Tbk with special attention on Komatsu and Scania systems. The last speech on this segment was by Alexandre Hintz, Director, PT Power Service Indonesia who spoke on, ‘LNG for Mining DDF application’. Alexandre made clear a to the benefits of LNG as in a dual fuel engine for mining in terms of cost savings,

environmental benefits and reduction in operational costs.

The next speech was by TC Goh, Regional Sales Director from Hexagon Lincoln on the topic, ‘Move Gas Further – Transporting CNG to Remote Locations. He proceeded to discuss the evolution from steel to composite cylinders in the industry and explained their different uses depended on the distance to the client needing the gas and the amount of gas used per day, such that composites are better for larger amounts of gas while steel cylinders are better for lower amounts that are nearer to clients. He



**Tony Regan, Principal Consultant of Tri-Zen International**



**Rachen Sillapavitsawakul, Director of Tiger Automotive Company**



**William Aw, Managing Director of Bukit Sedap Pte Ltd**



**Pung Andita, Head of Biogas and Engineering of PT REA Kaltim Plantations**



**Micheal Yeong, Business Development Manager - Sepuran from Evonik Industries**



**Dr. Pipon Boonchanta, Associate Professor at Kaesetsart University**

finished his speech talking about the various uses in the virtual pipelines and cost savings that have been realised in North America in exploration and fracking activities.

After the networking lunch, Lee Giok Seng, Executive Director of ANGVA spoke on, 'Reducing Fuel and Operational Cost and Carbon Footprint of Heavy Duty Vehicles by Using Natural Gas'. After giving a brief overview of the global NGV situation, Mr. Lee spoke of the many applications and benefits of using gas in mining and plantation sectors.

The next speech was by Nattadate Fuangworawong, Senior Specialist for Technology Department, PT Indo Tambangraya Megah (Banpu

Group) who spoke on, 'LNG for Mining Operations from a Mine Owner's Perspective'. Nattadate covered similar issues to what was covered previously as to the benefits that could be reaped through the use of natural gas as a fuel for mining operations. She then spoke more about a trial project that had been carried out by Banpu Group on a coal hauling truck at Indominco. She went over the challenges of the project, the parties involved and technology options. She concluded saying that there are huge opportunities in Indonesia's mining industry in the forms of OEM LNG Fuelled trucks and after-market conversions to use natural gas as a vehicular fuel in mining.

This was followed by Dag

Lilletvedt, Managing Director of Fuel Garden LNG who spoke on, 'Small LNG Infrastructure to Support the Development for the Mining and Logistics Sector'.

After that, Tony Regan, Principal Consultant of Tri-Zen International spoke on the topic, 'Natural Gas as a Transportation Fuel'. It was explained that there were various reasons that were driving demand such as substitution of coal in the power sector among many others including previously discussed reasons such as cost savings and environmental concerns. He also presented on a few regional examples of developing markets making use of natural gas such as North America and China.



The first day of the conference was then concluded with a panel discussion: utilizing CNG, LNG and Biomethane for Transport to reduce fuel costs, operational costs and the carbon footprint. The panellists were made up of previous speakers; Lee Giok Seng, Robbi Sukardi, Tony Regan, Eri Purnomohadi and Lukas Novak.

Day 2 began with Jonas Giuliani, Asia Pacific Markets Development Manager from Safe S.p.A who presented on the topic, 'Successful Infrastructure Development Across the Value Chain'. Jonas spoke about the various product solutions that Safe has to offer, from compressors to storage. He also spoke on the potential of Biogas in Indonesia and how Safe's products could fit into this value chain.

This was followed by Rachen Sillapavitsawakul, Director of Tiger Automotive Company. The benefits of using dual fuel was reiterated. Rachen did point out though that there were greater savings to be had through a 100% gas substitute compared to employing the use of a dual fuel engine.

William Aw, Managing

Director of Bukit Sedap Pte Ltd was next to present on, 'River Refuelling LNG Infrastructure to Support Remote Mining Locations'. It was made clear that LNG was a safe, easy to transport, difficult to pilfer and less polluting fuel for riverine transportation.

The conference then took a break for the 2nd day's networking coffee break and was resumed by Pung Andita, Head of Biogas and Engineering of PT REA Kaltim Plantations. Pung spoke on the palm oil mill effluent treatment system parameters and fleet composition as well as total costs of setting up a treatment plant.

The conference itself was brought to an end after the networking lunch by Micheal Yeong, Business Development Manager – Sepuran from Evonik Industries who spoke on the topic, 'Biogas for Vehicles: How membrane Technologies are Critical to the Biogas Upgrading process'. He explained that it was essential that the gas underwent this upgrading process to remove various impurities with ease through Evonik's Sepuran membranes.

After the conference had concluded, the workshop entitled, 'Heavy Duty Vehicle Conversion Workshop – Effective Dual Fuel Applications To Help Reduce Costs in The Mining, Plantation & Logistics Sectors. This training workshop was conducted by Dr. Pipon Boonchanta who is an Associate Professor at Kaesetsart University.

 By Ryan Pasupathy