Report on the CNG-NGV Vietnam Forum 2012, 1st – 3rd August 2012, Ho Chi Minh City, Vietnam

The CNG-NGV Vietnam Forum 2012 was held at the New World Saigon Hotel, Ho Chi Minh City, Vietnam, 1st – 3rd August 2012. It was the 4th similar event held in Vietnam since 2009 and all four events were endorsed by ANGVA. This year event theme was "Expanding Natural Gas Infrastructure for Industrial Development and Repowering in Vietnam". The event was officiated by HE Thanh Tran Viet, the Deputy Minister of Science and Technology, and was attended by 80 delegates and 3 exhibitors.

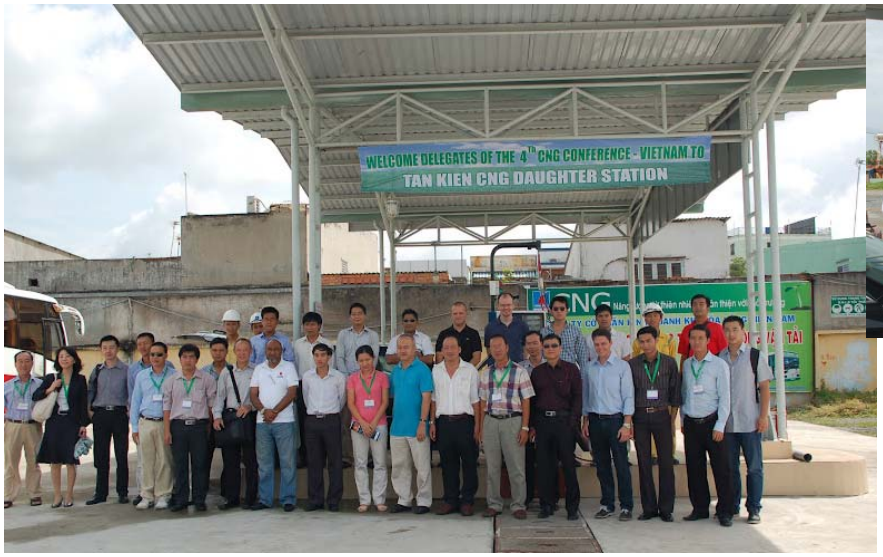
Many interesting papers from local and overseas speakers were presented at the event. Among the local papers were that by: Mr. Ngo An Hien, Director of PetroVietnam on "Vietnam Gas Master Plan 2025"; Mr. Dinh Dang Vu, Deputy Manager of Safety and Technical Department, Petrovietnam Southern Gas Joint Stock Company on "Developing An Effective CNG Transportation Supply Chain for Industries"; Mr. Dan Bui van, Deputy Director, CNG Vietnam Joint Stock Company on "Ongoing Development And Future Plans At CNG Vietnam Beyond 2012"; and, Mr. Lam Le Mong, Director, Department of Transport on "Updates On Bus Programme For Public Transportation in Ho Chi Minh City".

Top & Right: At the Forum

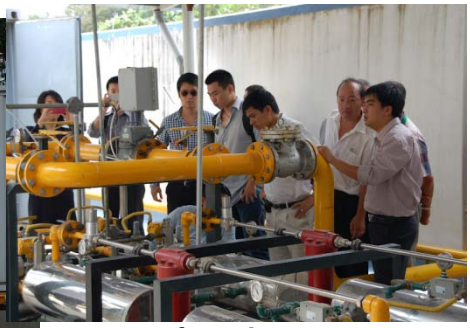
In Vietnam the production, supply and transportation of CNG (via trailers) are undertaken by two companies: Petrovietnam Southern Gas JSC (PV Gas South) and CNG Vietnam JSC. Both companies are supplying CNG to the industrial sector via trailers from their respective mother stations. PV Gas South is also involved in the development and supply of CNG to the transport sector via the mother daughter system. CNG for the transport sector in Vietnam started end of 2009 with 2 CNG buses, 1 mother station and 1 daughter station. By May 2011, PV Gas South had added another 2 daughter stations (1 in Ho Chi Minh City and 1 in Ba Ria, Vung Tau) to serve 300 natural gas vehicles (taxis and private cars). And by July 2012, there were 5 daughter NGV stations (3 in Ho Chi Minh City and 2 in Vung Tau), 1 Mobile Refueling Unit, and 462 natural gas vehicles (400 cars, 12 trucks and 50 buses) in Vietnam.

It was reported that Ho Chi Minh City People Committee will be investing VND 2500 billion for the city CNG programme and Vietnam will be developing more CNG infrastructure in the country including in northern region. And, a 1 million ton per year LNG terminal is being constructed at Thi Vai, Ba Ria, Vung Tau. This LNG terminal is expected to receive the first LNG cargo in 2015.

On 3rd August 2012, site visits to the Tan Kien NGV daughter station and Vina Milk factory were made. Both facilities received CNG supplies via trailers.



Top & Left: At the Tan Kien NGV Daughter Station. CNG is supplied by trailers by PV Gas South.



Top & Left: At the Vina Milk Factory. CNG is supplied by trailers by CNG Vietnam.

Visit to NGV Mobile Refueling Unit, 4th August 2012

On 4th August 2012, on the invitation of Mr. Jonas Giuliani, Asia Pacific Markets Development Manager, Safe S.p.A, ANGVA board members Fazal Ali Khan and Lee Giok Seng visited the PV Gas South mobile refueling unit in Vung Tau, about 3 hours by road (170 km) from Ho Chi Minh City. This mobile refueling unit was built by Safe for PV Gas South and currently is stationed at a daughter station under construction in Vung Tau. This mobile refueling unit is used to supply CNG to some cars around Vung Tau while waiting for the daughter station to be completed. Thus far, this mobile refueling unit had clocked 200 hours of operation.

The mobile refueling unit is powered by a 70 kW natural gas internal combustion engine (GM, Model 8100). It is a self-contained unit with a two-hose filling panel and a 3-bank storage cascade system onboard. The storage cascade capacity consisted of 16 nos. of Type 4 Lincoln Composite cylinders @ 145 litre water capacity (lwc) per cylinder with total storage of around 2160 sm3 (7200 lwc) at 250 bar. Compressor inlet is between 10 – 250 bars with discharge capacity of 400 – 600 sm3/hr. This mobile refueling unit can also be hooked up to take natural gas supply from a trailer parked beside it or from a nearby natural gas pipeline.

Top: Mobile Refueling Unit stationed at a Daughter station under construction in Vung Tau.

Top: Mobile Refueling Unit filling up a Prime Mover

Left: Mobile Refueling Unit filling a car at a parking area.

Reported by Lee Giok Seng, Executive Director, ANGVA, 13th August 2012