



**ANGVA Biennial Report  
2012-2013**

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## 1.0 OVERVIEW

The Asia Pacific Natural Gas Vehicles Association (ANGVA) was established in 2002 in South Korea with its Secretariat located in the city of Chuncheon in Gangwon Province and inaugurated as an international organisation dedicated to the development and promotion of natural gas as an environmentally and sustainable fuel for the transport sector. ANGVA is an international trade association serving the needs of fleet operators, vehicle manufacturers, OEMs, gas suppliers, equipment suppliers, refuelling equipment providers, consultants, government representatives, NGOs and others involved with the natural gas vehicle industry.

ANGVA provides NGV related information to members and helps members to communicate and share their experiences for improving the NGV industry in their countries. ANGVA is dedicated to developing an industry with highest technical and safety standards covering the entire Asia Pacific region. ANGVA also involves the leadership of the NGV community to influence activities and policies that provide increased market opportunities.

The activities of the Association are governed by the Board and its committees and implemented by the Secretariat. The first board election was held in Oct 2003 in Manila, Philippines. In 2006, the Board made a decision to move the ANGVA Secretariat to Malaysia with support of PETRONAS. On 28<sup>th</sup> May 2007, ANGVA was registered as an association in Malaysia and subsequently the ANGVA Secretariat was established in Malaysia where it is currently based.

In 2013, ANGVA adopts a new vision statement of "To lead and promote Asia Pacific NGV Industry towards sustainable growth". This vision will be achieved by ANGVA planting the seeds, providing the catalysts, monitoring and steering the development of a safe, profitable and sustainable market for natural gas as an environmentally friendly, economically viable, and energy security transport fuel, throughout the Asia Pacific region.

### ANGVA VISION

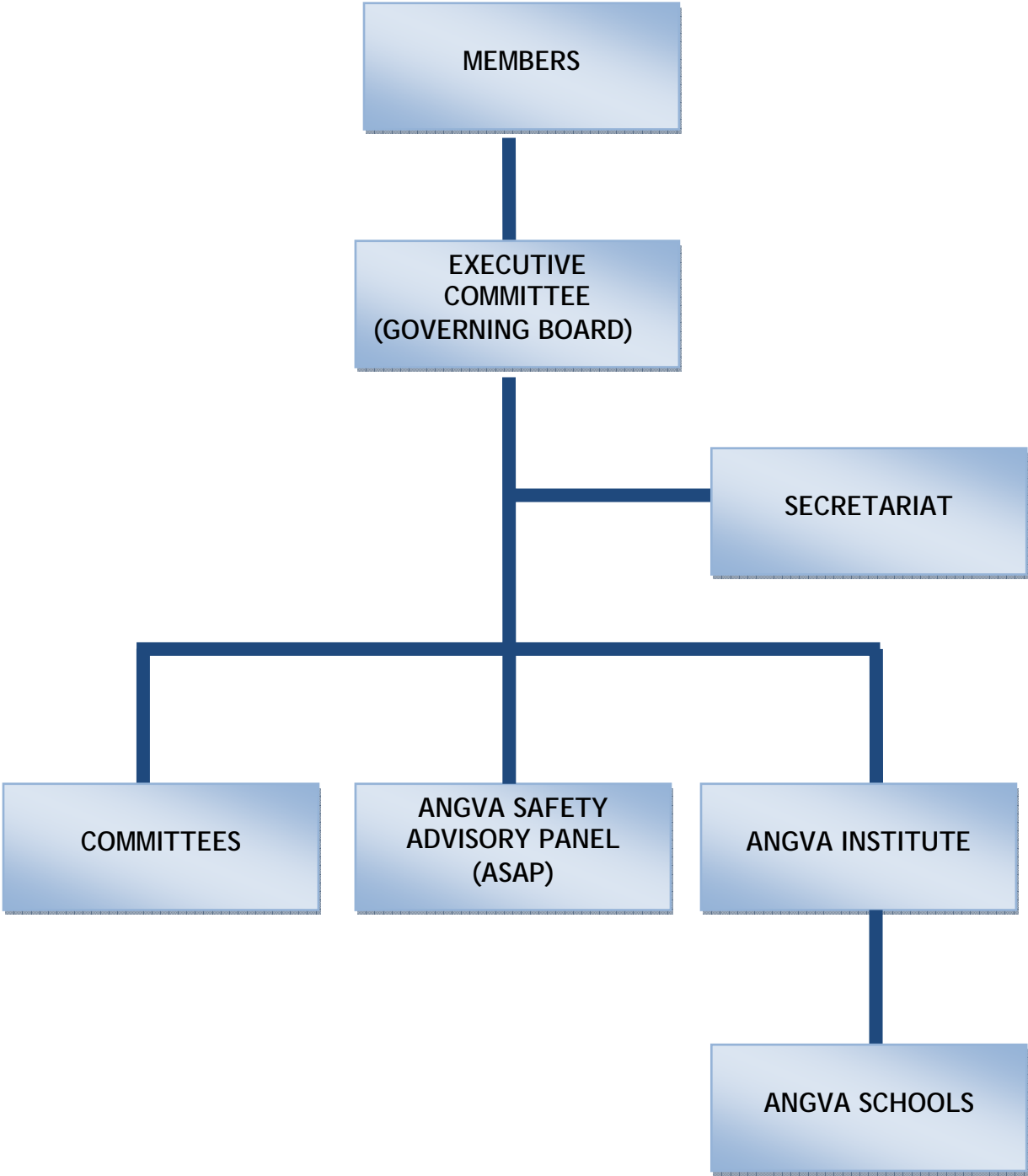
To lead and promote Asia Pacific NGV industry towards sustainable growth.

### OBJECTIVES

The objectives of the association are:

- To provide a forum in which members can discuss matters relating to natural gas as a fuel for vehicles.
- To promote the development of sustainable and profitable market for natural gas vehicles.
- To encourage the development of natural gas vehicles technology and refuelling infrastructure.
- To advance knowledge and learning, and stimulate research in the areas of natural gas as fuel for vehicles.
- To collect, analyse and disseminate information related to the use of natural gas as a fuel for vehicles.
- To promote standard of safety and uniformity of practices and standards relating to the use of natural gas as a fuel for vehicles.
- To organise conferences, exhibitions, seminars and trainings on the use of natural gas as a fuel for vehicles.

2.0 ANGVA ORGANISATION CHART



2.1 EXECUTIVE COMMITTEE / GOVERNING BOARD MEMBERS (2012-2013)



**President**

Name : Mr. Hesham Ali Mustafa  
 Company : Emirates Gas LLC, UAE  
 Position : Senior Director, ENOC Gas Marketing



**Immediate Past President**

Name : Mr. Wichai Pornkeratiwat  
 Company : PTT Public Company Limited, Thailand  
 Position : Chief Operating Officer, Upstream Petroleum and Gas Business Group



**Senior Vice President**

Name : Mr. Jin Gang  
 Company : Shanghai Diesel Engine Co., Ltd, China  
 Position : Vice President



**Treasurer**

Name : Mr. M Haikal Zubir  
 Company : PETRONAS Dagangan Berhad, Malaysia  
 Position : Manager, Operations & Technical Services, NGV Dept.



**Vice President**

Name : Mr. Fazal Ali Khan  
 Company : Emirates Gas LLC, UAE  
 Position : CNG Development Manager



**Vice President**

Name : Mr. Punnachai Footrakul  
 Company : PPT Public Company Limited, Thailand  
 Position : Vice President



**Vice President**

Name : Ms. Brenda Smith  
 Company : Gas Advisers, Hong Kong  
 Position : Managing Director



**Vice President**

Name : Mr. William Aw  
 Company : Bukit Sedap Pte Ltd, Singapore  
 Position : Managing Director



**Vice President**

Name : Mr. Danny Praditya  
 Company : PT Citra Nusantara Gemilang, Indonesia  
 Position : Managing Director



**Vice President**

Name : Mr. Hasin Parvez  
 Company : Green Fuel CNG Conversion Center, Bangladesh  
 Position : Chief Executive Officer



**Secretary**

Name : Mr. Lee Giok Seng  
 Company : PETRONAS Gas & Power Division, Malaysia  
 Position : Senior Manager

2.2 COUNTRY REPRESENTATIVES (2012-2013)

Pakistan



Name : Mr. Muazzam Hussain Ch.  
Company : Oil And Gas Regulatory Authority  
Position : Executive Director

Korea



Name : Mr. Kevin Park  
Company : NGVI Inc  
Position : President  
*(Resigned as ANGVA country representative on May 2013)*



Name : Mr Kim, Young Don  
Company : Korea Association for Natural Vehicles (KANGV)  
Position : Vice Chairman  
*(Appointed to replace Mr. Kevin Park in May 2013)*

2.3 ANGVA SECRETARIAT



Name : Mr. Lee Giok Seng  
Position : Executive Director











Name : Ms. Aznita Saidin  
Position : Administrative Executive

### 3.0 ANGVA MEMBERS

As of 31<sup>st</sup> August 2013, there were 79 ANGVA members comprising of 20 Class A, 1 Class C, 41 Class C and 17 Class D members. These members were from 21 countries i.e. Bangladesh, Canada, China, Germany, Hong Kong, Iran, Indonesia, Italy, Japan, Kazakhstan, Malaysia, Myanmar, New Zealand, Pakistan, Singapore, South Korea, Thailand, Turkey, UAE, Uzbekistan, and USA.

#### Class A Members

No	Logo	Company	Country	Products & Services
1		Atlas Copco	China	Manufacturer / Supplier : Refuelling Station Equipment Compressor & Dispenser
2		Emerson Process Management Co.	China	Automation Systems & Instrumentation Provider
3		Emirates Gas LLC	UAE	CNG Distribution & Supply
4		IMW Industries Ltd.	Canada	Manufacturer / Supplier : Refuelling Station Equipment Compressor & Dispenser Valve, Fitting & Other Component Consultant / R&D / Training / Testing
5		KOGAS	South Korea	Gas Supplier Refuelling Station Operator
6		Kwangshin Machine Industry Co., Ltd	South Korea	CNG Compressor & Dispenser Manufacturer
7		Lincoln Composite	USA	Manufacturer Type IV CNG
8		ENK Co., Ltd	South Korea	Manufacturer / Supplier : Refuelling Station Operator & Component Refuelling Station Equipment Vehicle Conversion Kits CNG Cylinder Valve, Fitting & Other Component
9		PETRONAS	Malaysia	Gas Supplier Refuelling Station Operator

10		PT Pertamina	Indonesia	Gas Supplier Refuelling Station Operator
11		PTT Public Company Limited	Thailand	Gas Supplier Refuelling Station Operator
12		Safe s.r.l. Gas Technology	Italy	Manufacturer / Supplier : Refuelling Station Equipment CNG Cylinder Consultant / R&D / Training / Testing
13		Shanghai Diesel Engine Co., Ltd	China	Manufacturer / Supplier : Vehicle / Engine
14		Sime Darby Industrial Sdn. Bhd	Malaysia	Gas Supplier Manufacturer / Supplier : Refuelling Station Operator & Component Refuelling Station Equipment Compressor & Dispenser Vehicle Conversion Workshop Vehicle Conversion Kits Consultant / R&D / Training / Testing Others
15		Sinoma Science & Technology (Su Zhou) Co.,Ltd.	China	CNG Cylinder Manufacturer / Supplier
16		Swagelok Company	Malaysia	Manufacturer / Supplier : Valve, Fitting & Other Component Consultant / R&D / Training / Testing Refuelling Station Equipment Compressor & Dispenser
17		Tamkar Gas Equipment Co.	Iran	Oil, Gas & Energy  Manufacturer/ Supplier : Refuelling Station Equipment Compressor & Dispenser & Drier Consultant / R&D / Training
18		UMW Industrial Power Sdn Bhd	Malaysia	Manufacturer / Supplier Refuelling Station Equipment Compressor & Dispenser CNG Cylinder Valve, Fitting & Other Component Consultant / R&D / Training / Testing Others
19		Vitkovice Machinery Group	UAE	Cylinders Manufacturer CNG Station Trailers



20		Xperion	Germany	Cylinder & Equipment Manufacturer
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### Class B Members

No	Company	Country	Products & Services
1	Cummins Westport Inc.	China	Vehicle / Engine Manufacturer / Supplier

### Class C Members

No	Company	Country	Products & Services
1	ABA Gas Technologies Sdn Bhd	Malaysia	NGV Related Industries
2	Aldesa Autogas Equipments	Turkey	Conversion Kit Equipment Supplier
3	All Events Group Pte Ltd	Singapore	Event Management
4	ANGI Energy Systems	USA	Manufacturer / Supplier : Refuelling Station Equipment Compressor & Dispenser
5	Arya-SGS Quality Services Co.	Iran	Inspection Company
6	Asian NGV Communications - NGV Communications Group	South Korea	Publication & Event Management
7	Bangkok Exhibition Services Ltd	Thailand	Event Management
8	Bauer Kompressoren Shanghai Ltd	China	High Pressure Gas Compressors
9	Beijing Landi Renzo Autogas Systems Co. Ltd	China	Conversion Kit Manufacturer
10	Beijing Qifa Exhibition Service Co. Ltd	China	Event Management
11	Bireme Group Pte. Ltd	Singapore	Natural Gas Dryer & Biogas / Natural Gas Upgrading
12	Bukit Sedap Pte Ltd	Singapore	Natural Gas Investment Company
13	C. Melchers GmbH & Co	Singapore	Manufacturer / Supplier Compressor & Dispenser Vehicle Conversion Workshop Vehicle Conversion Kits Consultant / R&D / Training / Testing
14	Compac Industries Ltd	New Zealand	CNG Compressor / Dispenser Manufacturer
15	Compressed Gas Technology	UAE	CNG Cylinder Manufacturer Refuelling Station & Conversion Kit Supplier
16	Dynetek Industries Ltd	Canada	CNG Cylinder Manufacturer
17	Gas Advisers	Hong Kong	Consultant
18	Green Fuel CNG Conversion Center	Bangladesh	Refuelling & Conversion Workshop

			Operator
19	Hamayesh Sanat Institute	Iran	Publication & Event Management
20	IEV Energy Sdn Bhd	Malaysia	Refuelling Equipment & Conversion Kit Supplier
21	InnoTrend Resources (M) Sdn Bhd	Malaysia	Manufacturer / Supplier : Vehicle Conversion Workshop Vehicle Conversion Kits CNG Cylinder
22	JT NGV Holdings Sdn Bhd	Malaysia	Conversion Workshop
23	KazTransGas Onimderi	Kazakhstan	Equipment Supplier
24	Kuala Lumpur Valve & Fitting (M) Sdn Bhd	Malaysia	Valve & Fitting Supplier
25	M.N.T Co.,Ltd	Myanmar	Manufacturer / supplier : Refuelling Station Equipment Compressor & Dispenser Vehicle Conversion Kits Vehicle / Engine
26	Metatron Control Systems (Shanghai) Co., Ltd.	China	Valve, Fitting & Other Component Manufacturer / Supplier
27	Mirpur Ceramic Works CNG RS & CW	Bangladesh	Refuelling Station Operator
28	NGVI	South Korea	Vehicle Conversion Kit Supplier
29	OMB Saleri Spa	Italy	Manufacturer / Supplier : Valve, Fitting & Other Component Consultant / R&D / Training / Testing
30	PT Citra Nusantara Gemilang	Indonesia	Refuelling Station Operator Conversion Workshop Operator
31	PT Fajar Mas Murni	Indonesia	Construction & Mining Oilfield Services Compressor
32	PT T Energy	Indonesia	CNG Mother Station
33	Sammitr Green Power Co., Ltd	Thailand	NGV Vehicles & Equipment Business Retrofitting and Installation of NGV kits
34	Shijiazhuang Enric Gas Equipment Co., Ltd	China	Manufacturer / Supplier :  Refuelling Station Equipment Manufacturer Compressor & Dispenser  CNG Cylinder
35	Skill Trade Development Sdn Bhd	Malaysia	Conversion Workshop Operator
36	Teasing Industrial Systems(Beijing)Co., Ltd	China	Equipment Supplier
37	Tech Infinity Engineering Sdn Bhd	Malaysia	CNG / NGV equipment provider
38	Tiger Automotive Co. Ltd	Thailand	Trader / Installer
39	TN Engineering Sdn Bhd	Malaysia	Vehicle & Engine Converter

40	Truckquip Sdn Bhd	Malaysia	Automotive Manufacturer
41	Youngdo Ind. Co., Ltd	South Korea	Valve, Fitting & Other Component Manufacturer / Supplier

### Class D Members

No	Company	Country	Products & Services
1	Asosiasi Pengusaha CNG Indonesia (APCNGI)	Indonesia	NGV Association
2	Association Enterprises of Alternative Fuels & Energy	Uzbekistan	NGV Association
3	China Automotive Technology & Research Center (CATARC)	China	Consultant / R&D / Training / Testing
4	Directorate General of Oil & Gas	Indonesia	Government
5	Donghae City	South Korea	Government
6	Gangwon Provincial Government	South Korea	Government
7	Jason Noah Neo*	Singapore	Individual
8	Korean Association NGV	South Korea	NGV Association
9	MANGVI	Malaysia	NGV Association
10	Muazzam Hussain Ch*	Pakistan	Individual
11	NGV Italia	Italy	NGV Association
12	Pervaiz Khattak*	Pakistan	Individual
13	Sharjah Transport	Pakistan	Fleet Operator Government
14	Thailand NGV Association (TANGV)	Thailand	Association
15	The Japan Gas Association	Japan	Association
16	Universiti PUTRA Malaysia	Malaysia	Government / University / Association Consultant / R&D / Training / Testing Others - Post Graduate Studies (Master & Ph.D)
17	Universiti Tun Hussein Onn	Malaysia	Government / University / Association Consultant / R&D / Training / Testing Others - Post Graduate Studies (Master & Ph.D)

\*Individual Member

## 4.0 EXECUTIVE DIRECTOR'S REPORT

### 4.1 ANGVA Board Meetings

- 4.1.1 22<sup>nd</sup> ANGVA Board Meeting, 29<sup>th</sup> March 2012, Bangkok, Thailand.
- 4.1.2 23<sup>rd</sup> ANGVA Board Meeting, 13<sup>th</sup> November 2012, Bangkok, Thailand.
- 4.1.3 24<sup>th</sup> ANGVA Board Meeting, 13<sup>th</sup> May 2013, Dubai, UAE

### 4.2 ANGVA Members Meetings

- 4.2.1 2<sup>nd</sup> ANGVA Safety Advisory Panel (ASAP) Meeting, 29<sup>th</sup> March 2012, Bangkok, Thailand.
- 4.2.2 ANGVA Strategic Planning Meeting, 12-13<sup>th</sup> November 2012, Bangkok, Thailand.

### 4.3 ANGVA Workshops and Organised/Co-organised Events

- 4.3.1 ANGVA Training Session on "Introduction to NGV-CNG Vehicles Inspection" for PUSPAKOM, 18<sup>th</sup> April 2012, Shah Alam, Malaysia.
- 4.3.2 ANGVA Half Day Seminar on "Ensuring NGV Safety in Malaysia Through Meeting The Requirements of MS1096:2011", 23<sup>rd</sup> May 2012, Puchong, Malaysia.
- 4.3.3 CNG-NGV ANGVA Forum 2013, 14 - 16<sup>th</sup> May 2013, Dubai, UAE.

### 4.4 Endorsed Events

- 4.4.1 CNG Infrastructure, Equipment Selection and NGV Conversion Seminar, 12-13<sup>th</sup> April 2012, Jakarta, Indonesia.
- 4.4.2 CNG-NGV Central Asia Forum, 14-16<sup>th</sup> June 2012, Tashkent, Uzbekistan.
- 4.4.3 CNG-Vietnam Forum 2012, 1-3<sup>rd</sup> Aug 2012, Ho Chi Minh City, Vietnam.
- 4.4.4 China NG 2012 - 4<sup>th</sup> China International Exhibition on NGV, 12-14<sup>th</sup> Sept 2012, Nanjing, China.
- 4.4.5 7<sup>th</sup> Natural Gas Vehicles & Infrastructure Indonesia Forum and Exhibition 2013, 31<sup>st</sup> - 1<sup>st</sup> Feb 2013, Jakarta, Indonesia.
- 4.4.6 NGV China 2013, 14<sup>th</sup> China International NGV Station Equipment Expo, 8<sup>th</sup> - 10<sup>th</sup> May 2013, Beijing, China.
- 4.4.7 Natural Gas Vehicles (NGV) Philippines Roundtable Forum 2013, 8<sup>th</sup> Oct 2013, Manila, Philippines.

### 4.5 Participated Events

- 4.5.1 World Gas Conference 2012, 4-8<sup>th</sup> June 2012, Kuala Lumpur, Malaysia.
- 4.5.2 NGVA Europe Bologna 2012, 19-21<sup>st</sup> June 2012, Bologna, Italy.
- 4.5.3 Biogas Asia Pacific Forum 2012, 18-20<sup>th</sup> July 2012, Bangkok, Thailand.
- 4.5.4 4<sup>th</sup> National Energy Forum, 27<sup>th</sup> Sept 2012, Kuala Lumpur, Malaysia.
- 4.5.5 PETRONAS NGV Safety Awareness Campaign, 28<sup>th</sup> Sept 2012, Melaka, Malaysia.
- 4.5.6 International Energy Agency - Advanced Motor Fuels (IEA - AMF) 44<sup>th</sup> Executive Committee Meeting, 23-26<sup>th</sup> Oct 2012, Beijing, China.
- 4.5.7 LNG Malaysia Forum 2013, 19<sup>th</sup> - 21<sup>st</sup> Mar 2013, Kuala Lumpur, Malaysia.
- 4.5.8 Seventh Regional Environmentally Sustainable Transport Forum (7EST), 23<sup>rd</sup> - 25<sup>th</sup> April 2013, Bali, Indonesia.
- 4.5.9 Training of Trainer Programme, 3<sup>rd</sup> June 2013, Kuala Lumpur, Malaysia.
- 4.5.10 NGV Safety Awareness Campaign, 11<sup>th</sup> June 2013, Kuala Lumpur, Malaysia.
- 4.5.11 Biogas Asia Pacific Forum, 2013, 12 - 14<sup>th</sup> June 2013, Kuala Lumpur, Malaysia.
- 4.5.12 1<sup>st</sup> NGV Safety Workshop of The Malaysian NGV Installer Association (MANGVI), 3<sup>rd</sup> July 2013, Kuala Lumpur, Malaysia.

### 4.6 ANGVA 2013

### 4.7 Income and Expenditure

- 4.6.1 Audited Income & Expenditure Statement Year 2011, 2012 & Unaudited 2013.

#### 4.1 [ANGVA Board Meetings](#)

##### 4.1.1 22<sup>nd</sup> ANGVA Board Meeting, 29<sup>th</sup> March 2012, Bangkok, Thailand.

The 22<sup>nd</sup> ANGVA Board Meeting was held from 9.05 am till 1.00 p.m. It was chaired by the new President of ANGVA, Mr. Hesham Ali Mustaffa of Emirates Gas, UAE. Mr. Hesham Ali Mustafa was duly elected President of ANGVA for the term of 2012 - 2013 at the ANGVA Biennial General Meeting on 19<sup>th</sup> Oct 2011 in Beijing, China during ANGVA 2011 Conference & Exhibition.

The 22<sup>nd</sup> ANGVA Board meeting was the first board meeting chaired by Mr. Hesham Ali Mustafa. It was attended by 5 board members and 12 observers (11 ANGVA members and 1 invited guest).



##### 4.1.2 23<sup>rd</sup> ANGVA Board Meeting, 13<sup>th</sup> November 2012, Bangkok, Thailand.



The 23<sup>rd</sup> ANGVA Board Meeting was held from 2.35pm, till 4.35 pm. It was chaired by ANGVA President, Mr. Hesham Ali Mustafa. Board members present at the meeting were: Mr. Fazal Ali Khan, Mr. Punnachai Footrakul, Mr. William Aw, Ms Brenda Smith, Mr. John Cai (representing Mr. Jin Gang of SDEC), and Secretary Lee Giok Seng. Also in attendance were Mr. Tariq Al Hashimi (Emirates Gas, UAE) and Mr. Kriengkai Potipiyavisut (PTT Plc, Thailand).

##### 4.1.3 24<sup>th</sup> ANGVA Board Meeting, 13<sup>th</sup> May 2013, Dubai, UAE.

The 24<sup>th</sup> ANGVA Board Meeting was held from 2.15 p.m. till 6.15 p.m. at Raffles Hotel, Dubai, UAE, on 13<sup>th</sup> May 2013. It was chaired by ANGVA President Mr. Hesham Ali Mustafa. Board members present at the meeting were: Mr. Fazal Ali Khan, Mr. Punnachai Footrakul, Mr. William Aw, Ms. Brenda Smith, and Secretary Lee Giok Seng. In attendance were Mr. Tariq Al Hashimi & Ms. Shafia Abdulla Mohammed (from Emirates Gas, UAE), Mr. Sompol Wairatpanich & Ms. Nopamat Kittipornpaibon (from PTT Plc, Thailand), and Mr. Vincent Choy (from All Events Group, Singapore - providing secretariat support).



## 4.2 [ANGVA Members Meetings](#)

### 4.2.1 2<sup>nd</sup> ANGVA Safety Advisory Panel (ASAP) Meeting, 29<sup>th</sup> March 2012, Bangkok, Thailand

The 2<sup>nd</sup> ASAP meeting was held from 2.10 to 3.30 p.m. It was chaired by Mr. Fazal Ali Khan. Four (4) ASAP members and 12 observers (ANGVA members and invited guests) were present at the meeting. Meeting started with PTT Plc sharing the 4 recorded safety incidents that happened in Thailand since 2004 and the various safety initiatives undertaken by PTT to ensure the safety of the NGV industry in Thailand.



### 4.2.2 ANGVA Strategic Planning Meeting, 12-13<sup>th</sup> November 2012, Bangkok, Thailand

A one and a half day (1.5 day) ANGVA Strategic Planning Meeting (SPM) was conducted on 12<sup>th</sup> -13<sup>th</sup> Nov 2012 in Bangkok, Thailand to chart new direction and strategies for ANGVA to enable it to better serve its members and the NGV industry in the region. The meeting was lead by ANGVA President Mr. Hesham Ali Mustafa, and facilitated by a professional facilitator engaged by ANGVA Secretariat. Five (5) board members and seven (7) invited guests were involved in the SPM.

## 4.3 [ANGVA Workshops and Organised/Co-organised Events](#)

### 2012

#### 4.3.1 ANGVA Training Session on “Introduction to NGV-CNG Vehicles Inspection” for PUSPAKOM, 18<sup>th</sup> April 2012, Shah Alam, Malaysia

On 18<sup>th</sup> April 2012, ANGVA Executive Director (Lee Giok Seng) conducted a training session on “Introduction to NGV-CNG Vehicles Inspection” for PUSPAKOM at their training centre, Section 28, Shah Alam, Selangor, Malaysia. The half day training session focused on the requirement of the Malaysian Standard MS1096:2011 - Road Vehicles - The Use of Compressed Natural Gas Fuel for Vehicle Engines - Code of Practice (Second Edition). The session was divided into 3 parts: Understanding of NGV Fuel Systems; Installation of NGV Kits on Vehicles; and Introduction to Inspections of NGV Vehicles as required by MS 1096:2011. Certificate of Attendance was awarded to participants at the end of the session.

A total of 26 PUSPAKOM staff, including vehicle examiners from different inspection centres throughout the country attended the session. PUSPAKOM is the company appointed by the Malaysian Road Transport Department (RTD) to conduct vehicle inspections including the half yearly mandatory inspection of all commercial vehicles, and inspections to approve conversion of vehicles to CNG/NGV.



**4.3.2 ANGVA Half Day Seminar on “Ensuring NGV Safety in Malaysia Through Meeting The Requirements of MS1096:2011, 23<sup>rd</sup> May 2012, Puchong, Malaysia**

On 23<sup>rd</sup> May 2012, ANGVA organized a half day seminar to help key NGV players, especially those involving in vehicle conversions and inspections in Malaysia, understand the requirement of the Malaysian Standard MS1096:2011 (Road Vehicles - The Use of Compressed Natural Gas Fuel for Vehicle Engines - Code of Practice (Second Edition)), to ensure safety of the natural gas vehicles in the country. The Malaysian Road Transport Department requires that all natural gas vehicles in Malaysia comply with MS1096:2011.

The half day safety seminar was conducted by Lee Giok Seng, Executive Director of ANGVA, whom have considerable experience in vehicle conversions and NGV programme in Malaysia. The seminar was supported by Sime Darby Industrial Sdn Bhd (a member of ANGVA) and was held at their training centre in Puchong, Selangor, Malaysia. It was attended by 60 participants from various segment of the NGV industry in Malaysia including government departments, conversion workshops, universities, etc.



2013

**4.3.3 CNG-NGV ANGVA Forum 2013, 14-16<sup>th</sup> May 2013, Dubai, UAE.**



The CNG-NGV ANGVA Forum 2013 was successfully held at the Raffles Hotel, Dubai, United Arab Emirates (UAE), 14<sup>th</sup> - 16<sup>th</sup> May 2013. The event, which was organized by All Events Group on behalf of ANGVA, consisted of a 2 day forum and a technical visit to Abu Dhabi National Oil Company (ADNOC) NGV facilities on the third day. The Forum was hosted by Emirates National Oil Company Ltd (ENOC) and Emirates Gas, Dubai. A total of 103 delegates from 12 countries attended the forum with 8 exhibitors from 7 countries. A total of 22 delegates join the technical tour to the ADNOC NGV facility at Kalifa City, Abu Dhabi.



The event was officially opened by Mr. Saeed Khoory, Chief Executive Officer of ENOC followed by a keynote address by Engr. Mohammad Salah Badri, Acting Managing Director of Emirates Authority for Standardisation & Metrology (ESMA) on behalf of the UAE Minister of Environment & Water. Mr. Zaid Alqufaidi, Managing Director - Marketing, ENOC, provided an overview of

ENOC’s green initiatives which includes promoting the usage of CNG for passenger boats ‘ABRA’ for the Dubai Creek and Road Transport Authority (RTA)’s buses and taxis.

**4.4 Endorsed Events**

**2012**

**4.4.1 CNG Infrastructure, Equipment Selection and NGV Conversion Seminar, 12-13<sup>th</sup> April 2012, Jakarta, Indonesia.**

The event was successfully held in Jakarta, Indonesia, 12<sup>th</sup> - 13<sup>th</sup> April 2012 at the Dharmawangsa Jakarta Hotel. The two days event was organized by NGV Transportation and supported by ANGVA and the Indonesian CNG Owners Association (APCNGI). It was attended by 174 delegates and 14 exhibitors from 17 countries.

A total of 14 speakers from various background and countries spoke at the event. On Day 1, speakers covered topics on "CNG Infrastructure and Equipment Selection" and on Day 2, speakers covered topics on "NGV Conversion". The event brought together key international and local NGV players in light of the announcement of an allocation of a substantial budget and the appointment of the national oil and gas company, PERTAMINA, to lead in the implementation of the NGV projects in Indonesia.



**4.4.2 CNG-NGV Central Asia Forum, 14-16<sup>th</sup> June 2012, Tashkent, Uzbekistan**

The Central Asia Natural Gas Vehicles Exhibition & Conference 2012 was held at the Uzexponcentre, Tashkent, Uzbekistan. This event was co-organized by NGV Transportation / All Events Group of Singapore with the Association - Enterprises of Alternative Fuel and Energy of Uzbekistan and supported by the Chamber of Commerce of Uzbekistan. This event was endorsed by ANGVA as Uzbekistan is in the Asia Pacific region of ANGVA.

This was the first time that ANGVA endorsed and participated in an event in Central Asia.

The event was attended by 140 delegates from 13 countries and 34 exhibitors from 10 countries. Beside the two days conference and three days exhibition, visits to two CNG refuelling stations were also organized.





4.4.3 CNG-Vietnam Forum 2012, 1-3<sup>rd</sup> Aug 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, 1<sup>st</sup> - 3<sup>rd</sup> August 2012. 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.

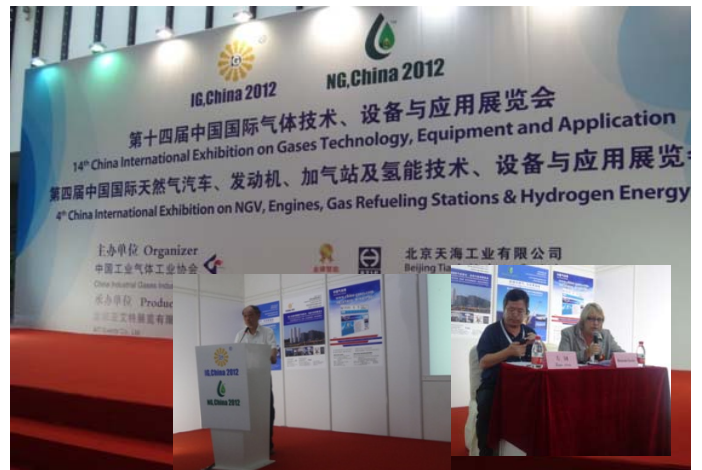
Many interesting papers from local and overseas speakers were presented at the event. Among the local papers were those by: Mr. Ngo An Hien, Director of PetroVietnam on "Vietnam Gas Master Plan 2025", Mr. Dinh Dang Vu, Deputy Manager of Safety and Technical Department, PetroVietnam Southern Gas Joint Stock Company on "Developing An Effective CNG Transportation Supply Chain for Industries".



4.4.4 China NG 2012 - 4<sup>th</sup> China International Exhibition on NGV, 12-14<sup>th</sup> Sept 2012, Nanjing, China

The NG, China 2012 (the 4<sup>th</sup> China International Exhibition on NGV, Engines, Gas Refuelling Stations & Hydrogen Energy) was successfully held in Nanjing, China, 12-14<sup>th</sup> September, 2012. This event was hosted by the China Industrial Gases Industry Association (CIGIA) and organized by AIT Events Co., Ltd, Beijing, China. This event was endorsed by ANGVA for the first time. NGV Global also participated in the event.

NG, China 2012 and IG, China 2012 attracted over 200 companies from 30 countries covering exhibition space of around 13,000 m2.



2013

4.4.5 7<sup>th</sup> Natural Gas Vehicles & Infrastructure Indonesia Forum and Exhibition 2013, 31<sup>st</sup> - 1<sup>st</sup> Feb, 2013, Jakarta, Indonesia



The 7<sup>th</sup> NGV & Infrastructure Indonesia Forum was held at the Dharmawangsa Hotel, Jakarta. It was attended by 229 delegates from 16 countries; among them were China, Italy, Turkey, Korea and India. A total of 23 exhibitors from 8 countries displayed their products and services at this Forum.

Many interesting papers from local and overseas speakers were presented and the ANGVA Roundtable panel held a discussion on "Building a Sustainable NGV Infrastructure" with panellists from Italy, UAE, Philippines and Indonesia.

**4.4.6 NGV China 2013, 14<sup>th</sup> China International NGV Station Equipment Expo, 8<sup>th</sup> - 10<sup>th</sup> May 2013, Beijing, China**

NGV China 2013 was held at the Beijing National Agricultural Exhibition Hall (New Hall) in Beijing, China, 8th - 10th May 2013. ANGVA and NGV Global endorsed this event. ANGVA was represented by Executive Director Lee Giok Seng and NGV Global by Deputy Chairman Phils Fathers. The 3 days exhibition and 2 days forum was well attended by delegates and visitors. A total of 50,000 m2 of exhibition space was taken up by exhibitors from China and overseas exhibiting both CNG and LNG equipment and systems for the transportation sector.



**4.4.7 Natural Gas Vehicles (NGV) Philippines Roundtable Forum 2013, 8<sup>th</sup> Oct 2013, Manila, Philippines**



NGV The Natural Gas Vehicles (NGV) Philippines Roundtable Forum 2013 was successfully held at the Pan Pacific Manila Hotel, Manila, Philippines on 8<sup>th</sup> October 2013. The Forum was organized by All Events Group and supported by ANGVA and PNOC Exploration Corporation (PNOC EC). The Forum was limited to 30 participants, locally and overseas. It was officiated by Ms. Loreta G. Ayson, Undersecretary of Department of Energy who also delivered the keynote address. Four speakers from PNOC EC, ANGVA, CNG Association of Indonesia, and Hexagon Composites, spoke at the Forum. Two panel discussions were convened.

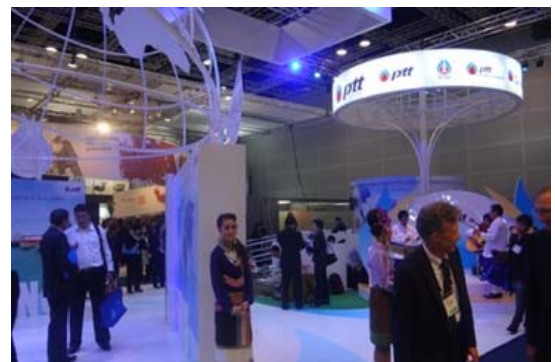
**4.5 Participated Events**

**2012**

**4.5.1 World Gas Conference 2012, 4 - 8<sup>th</sup> June 2012, Kuala Lumpur, Malaysia.**

The 25<sup>th</sup> International Gas Union (IGU)'s triennial international conference & exhibition was held at the Kuala Lumpur Convention Centre, Kuala Lumpur, Malaysia from 4<sup>th</sup> to 8<sup>th</sup> June 2012. This prestigious natural gas event was hosted by PETRONAS, the national oil & gas company of Malaysia.

A total of 5,299 delegates from 90 countries, 220 exhibitors and 13,803 trade visitors participated in the event. Over 70 conference sessions including keynote addresses, strategic panels, luncheon addresses, technical committee sessions, and expert fora were presented at this event. And a total of 122 technical poster papers were presented through an "Interactive Expert Showcase" medium at the exhibition area.



Two NGV sessions were convened at the WGC 2012. The first was the Committee Session 5.3, WOC5: Natural Gas Vehicles (NGV): the Solution for a Low Carbon Society, on 6<sup>th</sup> June 2012. The second session was the Strategic Panel 7 session, Natural Gas Vehicles – Sustainability & Opportunity on 7<sup>th</sup> June 2012.

#### 4.5.2 NGVA Europe Bologna 2012, 19-21<sup>st</sup> June 2012, Bologna, Italy

The 3<sup>rd</sup> annual NGVA Europe’s Conference and Exhibition was held at the Bologna Fiere Exhibition Centre, Bologna, Italy, 19<sup>th</sup> to 21<sup>st</sup> June 2012. ANGVA supported and attended this NGV Bologna 2012 event as it was hosted by the European Regional NGV Association (NGVA Europe). The event organized by NGV Communications Group.

The NGV Bologna 2012 event saw the participation of 77 exhibitors from 20 countries and 2,500 trade visitors from 40 countries. Around 80 participants attended the workshops. The workshops covered latest policies, markets, OEMs, and technologies development in Europe, especially in the areas of Biomethane / Bio-Natural Gas, Dual Fuel (diesel) heavy duty vehicles and LNG for heavy duty vehicles.



#### 4.5.3 Biogas Asia Pacific Forum 2012, 18-20<sup>th</sup> July 2012, Bangkok, Thailand

The Biogas Asia Pacific Forum 2012 was held at the Pathumwan Princess Hotel, Bangkok, Thailand, 18-20<sup>th</sup> July 2012 with a site tour to an electricity generation plant using biogas from landfill on 20<sup>th</sup> July 2012. ANGVA Executive Director, Lee Giok Seng was invited to present a paper on “Biogas – The Renewable and Green Fuel for Natural Gas Vehicles”.

#### 4.5.4 4<sup>th</sup> National Energy Forum, 27<sup>th</sup> Sept 2012, Kuala Lumpur, Malaysia

ANGVA Executive Director attended the 4<sup>th</sup> Malaysian National Energy Forum on 27<sup>th</sup> Sept, 2012 at Sheraton Imperial Hotel, Kuala Lumpur, Malaysia. The theme of the forum was “Building A Framework Towards A Sustainable Energy Future”. The forum was officially opened by the Malaysian Minister of Energy, Green Technology and Water, Peter Chin Fah Kui and attended by around 150 participants.

It was reported that natural gas prices to all sectors of the economy in the country are below the actual market price of natural gas. The differences in prices are being absorbed by PETRONAS, the sole supplier of natural gas in Malaysia. Prices of natural gas need to move towards market prices in order for the natural gas sector in the country to continue developing and growing.



**4.5.5 PETRONAS NGV Safety Awareness Campaign, 28<sup>th</sup> Sept 2012, Melaka, Malaysia**

On 28<sup>th</sup> Sept 2012, ANGVA was invited to participate in the PNGV’s NGV Safety Awareness Campaign at a PETRONAS NGV Public Refuelling Station at Batu Berendam, Melaka, Malaysia. The campaign was to create awareness and educate the public and users on NGV safety requirement and the importance of adhering to these requirements such as: switch-off vehicle engine when refuelling; not smoking and using mobile phone while refuelling; ensuring there were no leakages of the NGV system in the vehicles; and conduct periodic maintenance and inspection of the NGV system and components especially the periodic recertification of CNG cylinders onboard vehicles.



The campaign was officiated by the Ministry of Domestic Trade, Cooperatives and Consumerism (MDTCC) State Director, Mr. Muhabir Ibrahim, accompanied by Chairman of PNGV, Mr. Pramod Kumar Karunakaran and Chief Executive Officer of PNGV, Mr. Akbar Mohd Thayoob. ANGVA Executive Director, Lee Giok Seng, gave a briefing on NGV safety incidents that had occurred in various part of the world with a note that such incidents will and can happen again if safety requirements are not followed.

The campaign was officiated by the Ministry of Domestic Trade, Cooperatives and Consumerism (MDTCC) State Director, Mr. Muhabir Ibrahim, accompanied by Chairman of PNGV, Mr. Pramod Kumar Karunakaran and Chief Executive Officer of PNGV, Mr. Akbar Mohd Thayoob. ANGVA Executive Director, Lee Giok Seng, gave a briefing on NGV safety incidents that had occurred in various part of the world with a note that such incidents will and can happen again if safety requirements are not followed.

**4.5.6 International Energy Agency - Advanced Motor Fuels (IEA - AMF) 44<sup>th</sup> Executive Committee Meeting, 23-26<sup>th</sup> Oct 2012, Beijing, China.**

ANGVA Executive Director attended the 44<sup>th</sup> Executive Committee (44<sup>th</sup> ExCo) of the International Energy Agency Advanced Motor Fuels Implementing Agreement Group (IEA-AMF), 23<sup>rd</sup> - 26<sup>th</sup> Oct 2012, Beijing, China, as an Observer and also gave briefing on “Status and Challenges of NGV Markets in Asia Pacific region to the meeting.

The meeting was chaired by Professor Nils-Olof Nylund of VTT Technical Research Centre of Finland and was attended by 31 representatives from 15 countries and was hosted by China Automotive Technology & Research Centre (CATARC), a member of IEA-AMF.

During the 44<sup>th</sup> ExCo meeting it was agreed that AMF and ANGVA can collaborate with ANGVA providing information on natural gas HD vehicles population and emissions including for DDF HD, in selected countries (especially those having Euro III limits) in the Asia Pacific region.



2013

4.5.7 LNG Malaysia Forum 2013, 19<sup>th</sup> - 21<sup>st</sup> March 2013, Kuala Lumpur, Malaysia



The inaugural LNG Malaysia Forum 2013 was successfully held in Kuala Lumpur, Malaysia, 19 - 21<sup>st</sup> March 2013. The 3-Day event comprises of a 1-day pre-conference workshops and a 2-day conference. It was organized by the Malaysian Gas Association (MGA) with the support and endorsement of PETRONAS Gas & Power Division and International Gas Union (IGU). Gaztransport & Technigaz (GTT) was also a sponsor and Technip a supporter of the Forum. The Forum received overwhelming participations from local and overseas participants.

Three workshops were organized on 19<sup>th</sup> March 2013. In the morning, Workshop A: Introduction to LNG Business was facilitated by Alexander Harsema-Mensonides from Marine Service GMBH. The workshop covered the basics and history of LNG business along the value chain from liquefaction, LNG carriers, regasification, trading and pricing. In the afternoon, two parallel workshops were held: Workshop B on LNG Floating Storage Regasification Unit (FSRU) Technology - A Closer Look at LNG FSRU Arrangement by Alexander Harsema-Mensonides and Workshop C on LNG Regasification: An Onshore and Offshore Comparison by Simon Newton, Thyssen Krupp Udhe Energy and Power. Both workshops B and C, elaborated in more details on the subjects of FSRUs, RGTs and LNG carriers.

4.5.8 Seventh Regional Environmentally Sustainable Transport Forum (7EST), 23<sup>rd</sup> -25<sup>th</sup> April 2013, Bali Indonesia

ANGVA participated in the “Seventh Regional Environmentally Sustainable Transport Forum in Asia” (7<sup>th</sup> EST) that was held at the Bali International Conference Centre, The Westin Resort Nusa Dua, Bali, Indonesia, from 23<sup>rd</sup> to 25<sup>th</sup> April 2013.

The forum was co-organised by the Ministry of Transportation of Indonesia, The Ministry of Environment of Japan and The United Nations Centre for Regional Development (UNCRD).

The Forum was attended by over six hundred participants comprising of government representatives from twenty four countries.



4.5.9 Training of Trainer Programme, 3<sup>rd</sup> June 2013, Kuala Lumpur, Malaysia

ANGVA was invited by C. Melchers GmbH, Singapore (a member of ANGVA) to participate in their “Training of Trainers” programme for NGV instructors for GIATMARA, a local Malaysian training institution. GIATMARA is a government skills training institution with branches nationwide. ANGVA Executive Director gave a 2 ½ hours lecture on “Ensuring NGV Safety in Malaysia through Meeting the Requirement of MS1096:2011” emphasizing on the importance of understanding and adhering to the requirement of the local regulations and standards for the conversion of vehicles to operate safely on natural gas in Malaysia.



4.5.10 PETRONAS NGV Safety Awareness Campaign, 11<sup>th</sup> June 2013, Kuala Lumpur

ANGVA was invited to participate in the PETRONAS NGV Sdn Bhd (PNGV) NGV Safety Awareness Campaign that was held at the NGV Refuelling Station near the Kuala Lumpur International Airport (KLIA). The event was organized by PNGV to create NGV safety awareness among users of NGV especially among the taxi drivers in the vicinity of the KLIA. The event saw participation from taxi associations, taxi drivers, key government departments including Police and Fire Services and the Ministry of Domestic Trade, Cooperatives and Consumerism (KPDNKK). ANGVA Executive Director was invited to give a briefing on NGV Safety at this event.



4.5.11 Biogas Asia Pacific Forum, 2013, 12-14<sup>th</sup> June 2013, Kuala Lumpur, Malaysia

The 2<sup>nd</sup> Annual Biogas Asia Pacific Forum was held at the JW Marriot Hotel, Kuala Lumpur, Malaysia, 12 - 14<sup>th</sup> June 2013 with a site tour to a Plant producing biogas from POME (Palm Oil Mill Effluent) on 14<sup>th</sup> June. The Forum was organized by the International Clean Energy & Sustainability Network (ICESN) of Singapore and supported by the Malaysian Biotechnology Corporation Sdn Bhd (Biotechcorp) and Ministry of Energy, Green Technology and Water, Malaysia (keTTHA). ANGVA Executive Director participated and presented a paper on “Opportunities For Biogas As A Renewable Fuel For Natural Gas Vehicles In The Asia Pacific Region” at this Forum.



**4.5.12 1<sup>st</sup> NGV Safety Workshop of the Malaysian NGV Installer Association (MANGVI), 3<sup>rd</sup> July 2013, Kuala Lumpur, Malaysia**

The 1<sup>st</sup> NGV Safety Workshop by the Malaysian NGV Installer Association (MANGVI) was held at Nouvelle Hotel, Kuala Lumpur, Malaysia. The workshop was attended by around 60 participants, mainly from members of MANGVI. ANGVA was invited to participate as one of the speaker at this event. MANGVI had recently joined ANGVA as a member.



Lee Giok Seng, Executive Director of ANGVA, spoke on the implications of not adhering to the safety requirements as laid out in the Malaysian Standard MS1096:2011. He pointed out that all NGV conversions in Malaysia must follow MS 1096 and the relevant authority in Malaysia must monitor and enforce this requirement to ensure safety of the NGV market in Malaysia. The requirement of MS 1096: 2011 includes the need to periodically inspect CNG cylinders every 48 months or 36 months, depending on the standard used. However, currently this periodic re-inspection requirement is not being practiced and enforced in Malaysia.

**4.6 ANGVA 2013**

The 5<sup>th</sup> ANGVA Biennial International Conference & Exhibition, ANGVA 2013, is being held at the India Expo Centre, Greater Noida, New Delhi, India. The theme of ANGVA 2013 is “Natural Gas For Vehicles - The Next Generation”. Many key NGV industry players, both from India and overseas are expected to participate in ANGVA 2013 as delegates, exhibitors, speakers, and visitors.



In-conjunction with ANGVA 2013, the 5<sup>th</sup> Biennial General Meeting will be held on 28<sup>th</sup> November 2013.

4.7 [Income and Expenditure](#)

4.7.1 Audited Income & Expenditure Statement Year 2011, 2012 and Unaudited of 2013

Income	Audited 2011 (USD)	Audited 2012 (USD)	Unaudited 2013 (USD) As at 31 <sup>st</sup> August '13
Entrance & Subscription fees	54,901	53,956	36,820
Conference & Exhibition	106,390	-	-
Forum, Endorsement & Miscellaneous	15,494	9,928	5,287
<b>Total</b>	<b>176,785</b>	<b>63,884</b>	<b>42,107</b>
Local & Oversea Travelling	6,962	7,484	4,419
ANGVA Green Highways	22,730	-	-
Loss on foreign exchange	6,436	12,458	370
Bank Charges	929	721	445
Telephone Bill	703	578	38
Staff Salary	40,440	18,701	8,860
Provision for doubtful debts	9,417	9,836	-
ANGVA website	2,255	1,651	1,419
Meeting expenses	-	6,631	-
Office Rental	7,975	7,631	-
Bad Debts written off	2,871	6,173	-
Printing, Stationary & Office Equipment	3,021	417	215
Depreciation of Fixed Assets	2,583	544	-
Courier & Postage	218	154	-
Audit & Tax Advisory Fee	2,270	2,256	2,091
Sundry Expenses	1,699	8,530	574
Subscription	1,042	1,083	940
<b>Total</b>	<b>111,551</b>	<b>84,848</b>	<b>19,371</b>
<b>Surplus of income over expenditure before tax</b>	<b>65,234</b>	<b>(20,964)</b>	<b>22,736</b>
Taxation	-	-	-
<b>Surplus for the period</b>	<b>65,234</b>	<b>(20,964)</b>	<b>22,736</b>

**Note:**

1. The Income and Expenditure for 2011 and 2012 were abstracted from the certified audited accounts report prepared by the appointed external auditor firm of Ernst & Young. The reports were in the currency of Malaysian Ringgit (MYR). The conversion rates used for the above reports were: for 2011 - MYR1 = USD 0.31770; for 2012 - 1MYR = USD0.30583. Members wishing to view the Audited Account Reports for 2011 and 2012, please contact the ANGVA Secretariat.
2. The Income and Expenditure for 2013 (up to 31<sup>st</sup> August '13) is based on current status and not yet audited. Conversion rate used for 2013: 1MYR = USD0.32995



## 5.0 SUMMARY

ANGVA had carried out many activities and programmes for the past two years (2012-2013). ANGVA will continue to conduct its activities and programmes as per its strategic plan for the benefits of its members and the NGV industry for the coming term of 2014-2015. ANGVA would like to invite members to support and actively participated in all its activities and programmes. Sponsorships and contributions are most welcome.

The next Biennial Report will be issued during the next Biennial General Meeting to coincide with the 6<sup>th</sup> Biennial Conference & Exhibition, ANGVA 2015.

END