

RAJA RAFA SAMUDRA | RAJA GAS SAMUDRA | RAJA GAS KHARISMA | GREEN-TRANS INDONESIA



RRS GROUP BUSINESS PROFILE IN PROVIDING & UTILIZING NATURAL GAS FOR THE INDUSTRIAL & TRANSPORTATION NEEDS THROUGH OUT INDONESIA



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OUR OVERALL BUSINESS UNITS

Membership & Alliance:



RRS

www.rajagas.com

Head Office:

Soho Pancoran. Splendor Tower. 27th Floor / Unit 2711
 Jl. Let. Jend. MT Haryono Kav 2-3 Jakarta Selatan 12810.

Workshop:

Jl. Jatimakmur No. 38/Gg. Kenari. Pondok Gede. Bekasi. 17413.

35%



**GREEN TRANSPORTASI
INDONESIA**

2015

Transportation

NGV Logistic Service

NGV Rentals



Operates & Provides
Logistic Transport Services
using CNG Conversion
Vehicles

2011

CNG Services

CNG Operator

CNG Maintenance

CNG Management



Provide Operatorship &
Maintenance Services for
CNG Facilities

2012

CNG Supply

CNG Distributor

CNG Skids Rental

CNG Equipments



Gas Supplier Company
using CNG Delivery, &
Provider & Rentals of
CNG Equipments.

70%



rgk RAJA GAS KHARISMA

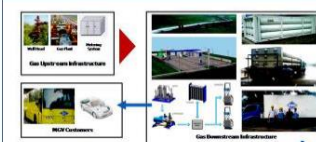
2011

CNG Advisory

CNG Feasibility Study

CNG Investor Partner

Biogas CNG



Feasibility Advisory for
CNG Development &
Planning, & EPCI for CNG &
CBG Facilities.

70%



RAJA GAS SAMUDRA

2014

CNG Conversion

CNG Converter Workshop

CNG Converter Distributor

CNG Diesel Conversion

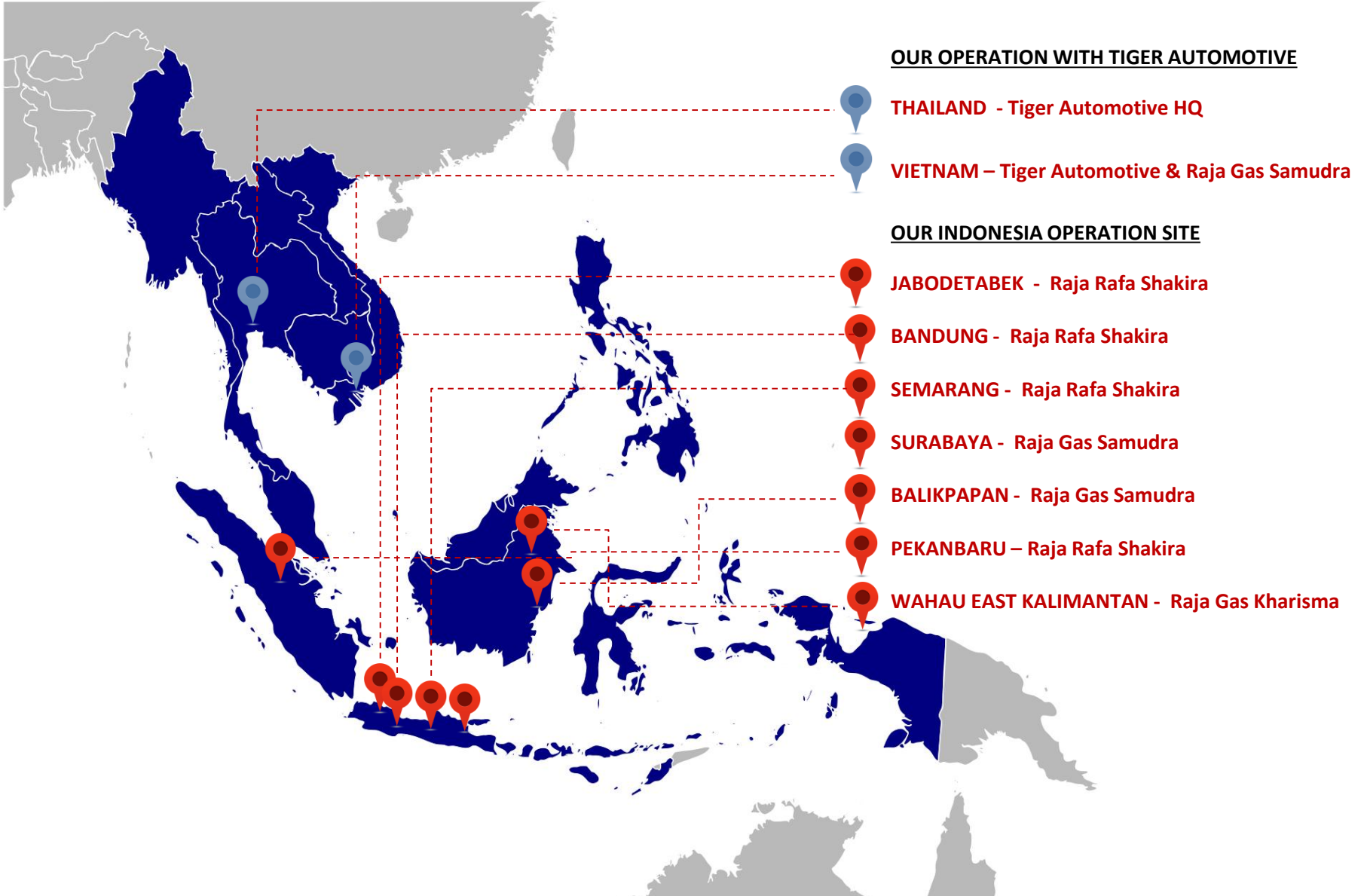
LPG Fishery Conversion



Provides Conversion Equipment
Supply & Conversion Services of
all Engine type to become Natural
Gas Engines.

PT. RAJA RAFA SAMUDRA

RRS GROUP BUSINESS OPERATION



**PT. RRS BUSINESS UNIT FOR OPERATION &
MAINTAINANCE (OM) SERVICES**

CNG FACILITY OPERATORSHIP & SERVICES UNIT

Our early start of the CNG business was initially started as a company providing professionally trained manpower to operate and maintain CNG Infrastructures like CNG Stations, Mobile Refueling Units, Daughter Stations, and CNG transporting.

CNG Services

CNG Operator

CNG Maintenance

CNG Transporter

- CNG Development, Manpower Services & Maintenance, CNG Sales Marketing for PT. Indogas Kriya Dwiguna - CNG MS Kalidawir, Sidoarjo, Jawa Timur (2009 – 2011),
- Manpower Services Contract untuk PT. T Energi - SPBBG Pinang Ranti (2011 – 2015), and distribution CNG agent for PT. Petross Gas – CNG Station Perintis Kemerdekaan & Rawa Buaya (2011- 2015),
- Manpower Services & Maintenance Contract untuk PT. Gagas Energi Indonesia for 4 CNG Station, 2 MRU, & 2 PRS in Jabodetabek (2014 – 2016),
- Manpower Services Contract untuk PT. Pertagas Niaga for 7 MRU in Jaboetabek (2015 – Today)
- CNG Transporter for PT. Pertagas Niaga & PT. Gagas Energi Indonesia (2016 – Today)



**PT. RRS BUSINESS UNIT ON SUPPLYING GAS
USING CNG TECHNOLOGY (VIRTUAL PIPELINE)**

SUPPLYING GAS USING CNG

Compressed Natural Gas or popularly known as “CNG” is made from compressing natural gas which is a clean energy fuel consisting primary of methane (CH₄) that can substitute other energy fuel like gasoline (petrol), diesel fuel, and even petroleum gas (LPG).

Although Indonesia is known for its abundant supply of natural gas, the sources are not located nearby the area where the demand is needed. Hence, natural gas are to be delivered to the end users through 3 (three) medium forms of distribution, which are through pipeline gas (NG), and using a “virtual pipeline” way through Liquefied Natural Gas (LNG), and Compressed Natural Gas (CNG).

The premise of the virtual pipeline is that natural gas can be economically handled and transported effectively to any locations where a heavy duty vehicle can go. Such virtual pipeline technologies commonly used are CNG and LNG (see picture 3). While CNG is most effective being used for transporting Natural Gas in a smaller volume production below 5 mmscfd, LNG, on the other hand, being better effective for longer distance travel transport and a greater scale of volume production exceeding 10 mmscfd.

CNG itself is made by compressing the natural gas in a gas compressing facility called CNG Filling Station, which consist of several machinery equipments and piping installation, and then filled in to a hard specialized containers called cylinders tank at an average pressure of 200 - 250 kg/m² (bar). The CNG filled to cylinder tank can either be filled directly for automotive fuel consumption or can be filled as storage to be then delivered through trucking fleets.

FUEL TYPE	UNITS	HEATING VALUE	
		BTU / UNIT	KCAL / UNIT
KEROSENE	Liter	35,079	8,840
GASOLINE	Liter	33,000	8,316
HSD	Liter	35,964	9,063
MFO	Liter	36,786	9,270
HFO	Liter	38,754	9,766
LPG	Kg	44,524	11,220
NG / CNG	m ³	37,073	8,986

THE SUPPLY & DELIVERY CHAIN OF NATURAL GAS

The supply of natural gas using CNG basically is categorized as the Down-Stream business of the overall Natural Gas industry.

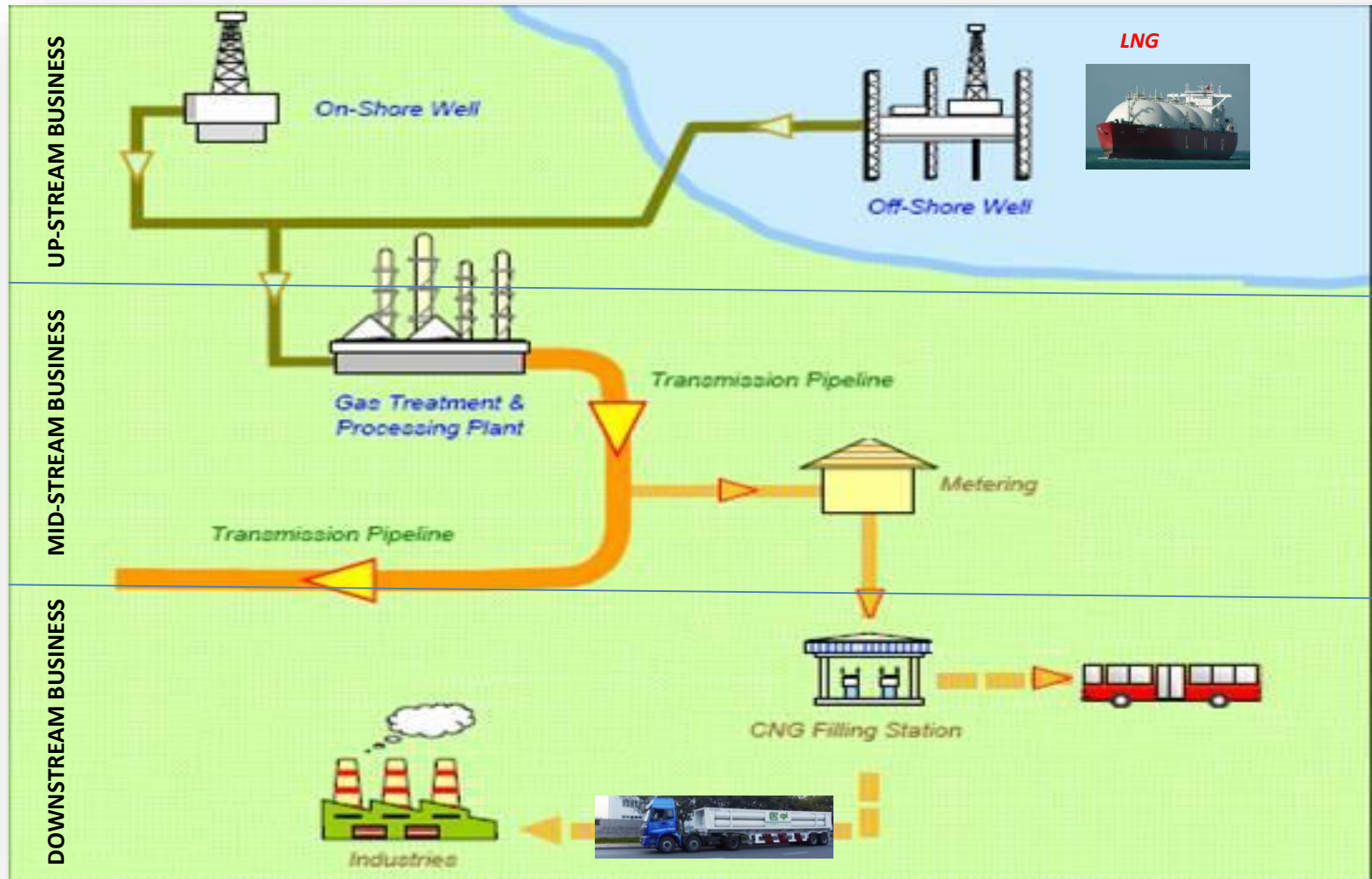



DIAGRAM FLOW OF NATURAL GAS TO CNG TO END USER



Well Head **Gas Plant** **Metering System**

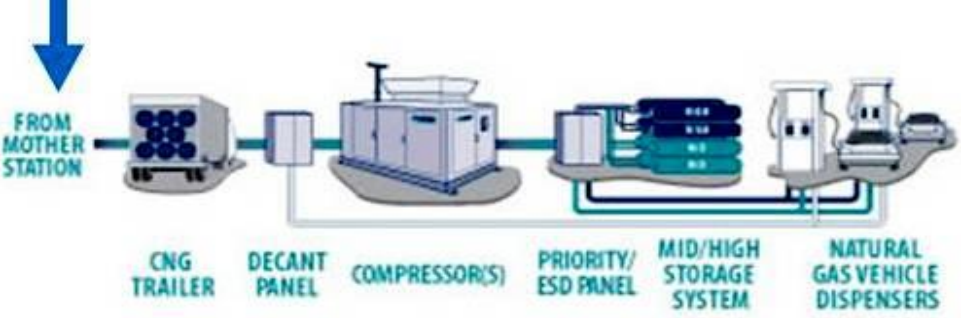
Gas Upstream Infrastructure



Gas Downstream Infrastructure



NGV Customers



Gas Customers / Daughter Stations



Gas Customers / Factories

OUR CNG SUPPLY BUSINESS UNIT

CNG Supply

CNG Distributor

CNG Skids Rental

CNG Equipments

- Virtual Pipeline supply to manufacturing plant, shopping mall, apartment complex, and NGV clients.
- Provide rental for CNG Cascade Storage size of 10 ft, dan 5 ft (*armroll type*), and cradle storage.
- Provide Pressure Reduction System or PRS capacity 100 m³/jam - 400 m³/jam.
- Had and are currently supplying more than 25 Customers from factories, Shopping Malls, and Hotels for CNG in Jabodetabek, Bandung, Balikpapan, and Pekanbaru.



DIFFERENT CNG SKIDS SIZE & VOLUME



CNG SKIDS WITH PRS FILLING AT CUSTOMER



**PT. RRS BUSINESS UNIT ON CONVERSION
THROUGH COLLABORATION WITH ITS SISTER
COMPANY PT. RAJA GAS SAMUDRA (“RGS”)**

CNG CONVERSION UNIT

CNG Conversion

CNG Converter Workshop

CNG Converter Distributor

CNG Dedicated System

- **Conversion System** : Bigas, Tiger Automotive, RajaGas, Gas Italy, others
- **Product CNG** : CNG Gasoline Kit Approval from Directorate General of Leading Industry Based on High Technology, Department of Industry, Indonesia, LPG Kit is certified SNI EN 12806 : 2018, Mono Conversion System the from Directorate Land Transport, Department of Transportation.
- **CNG Workshop & Installer** : Certified Workshop Installer of CNG Conversion from the Directorate General of Land Transportation, Department of Transportation, Indonesia.
- **Engineer Team** : Tiger Automotive & Raja Gas Samudra
- **Standard Use** : ISO 15500, ISO 15501, ISO 14469, ECE R110, ECER67



AUTHORIZED CNG CONVERSION CERTIFICATE

	KEMENTERIAN PERHUBUNGAN DIREKTORAT JENDERAL PERHUBUNGAN DARAT		
GEDUNG KARYA JL. MERDEKA BARAT NO. 8 JAKARTA 10110	TELP. : (021) 350 6144, 350 6160	FAX email : hubdat@hubdat.web.id Home Page : www.hubdat.web.id	(021) 350 6144, 350 6160

**SERTIFIKAT
BENGKEL INSTALASI SISTEM PEMAKAIAN BAHAN BAKAR GAS PADA
KENDARAAN BERMOTOR**

NOMOR : SK.5507/AJ.302/DRJD/2018

Direktur Jenderal Perhubungan Darat dengan ini menetapkan :

Nama Perusahaan : PT. RAJA RAFA SAMUDRA
Alamat Kantor : Casa Verde Building, Lantai 3 Jl. Mampang Prapatan Raya No. 17K, Mampang, Jakarta Selatan – DKI Jakarta
Alamat Bengkel : Jalan Jati Makmur Gg Kenari No.38 Pondok Gede, Bekasi, Jawa Barat
Penanggung Jawab : Robbi Renaldi Sukardi

**Sebagai Bengkel Instalasi Sistem Pemakaian Bahan Bakar Gas Pada
Kendaraan Bermotor**

Masa Berlaku : 2 (Dua) tahun sejak tanggal ditetapkan.

Jakarta, 30 November 2018

DIREKTUR JENDERAL PERHUBUNGAN DARAT


Drs. BUDI SETIYADI, SH., M.Si
NRP: 6205 0784



KEMENTERIAN PERHUBUNGAN DIREKTORAT JENDERAL PERHUBUNGAN DARAT

GEDUNG KARYA
JL. MERDEKA BARAT NO. 8
JAKARTA 10110

TELP. (021) 3506138,
3506129, 3506145,
3506143, 3862220

FAX : (021) 3507202, 3506129,
3506145, 3506143, 3862179
email : hubdat@hubdat.web.id
Home Page : www.hubdat.web.id

SERTIFIKAT BENGKEL INSTALASI SISTEM PEMAKAIAN BAHAN BAKAR GAS PADA KENDARAAN BERMOTOR

NOMOR : SK.6406/AJ.601/DRJD/2015

Direktur Jenderal Perhubungan Darat dengan ini menetapkan :

Nama Perusahaan : PT. RAJA RAFA SAMUDRA
Alamat Kantor : Cassa Verde Building, Lantai 3. Jl. Mampang Prapatan Raya No. 17 K, Mampang, Jakarta Selatan – DKI Jakarta.
Alamat Bengkel : Jl. Jatimakmur gg. Kenari No. 38 RT 002/005 Kelurahan Jatimakmur Kec. Pondokgede Kota Bekasi – Jawa Barat.
Penanggung Jawab : Robby Renaldi Sukardi
Sebagai Bengkel Instalasi Sistem Pemakaian Bahan Bakar Gas Pada Kendaraan Bermotor.
Masa Berlaku : 2 (dua) tahun sejak tanggal ditetapkan.

Jakarta, 21 Oktober 2015

DIREKTUR JENDERAL PERHUBUNGAN DARAT


Dr. H. DJOKO SASONO, M.Sc
Pembina Utama Madya (IV/d)
NIP. 19630925 199003 1 003

CNG CONVERSION BUSINESS PARTNERSHIP

TIGER AUTOMOTIVE

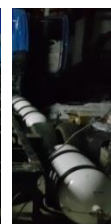


RAJA GAS SAMUDRA

- The Company that provide diesel to CNG installation conversion, automotive engineering design for CNG application, CNG Truck maintenance and CNG services.
- With 11 years of experience the company had converted more than 4.000 units diesel trucks in both Thailand and Indonesia,
- Holds partnership with B Quality Co. Ltd, as a company that provides Bi-Fuel systems equipments.
- Holds an exclusive distributor from Cavagna Group, which is a world leading Company from Italy that manufacturers equipment and components for controlling compressed gases (energy gases, alternative fuel gases, medical gases, industrial gases, and specialty and cryogenic gases), for the South East Asia market.
- Became the consultant of two Taxi group, Toyota dealer and Nissan dealer since 2013.
- On 2014, we establish the logistic department and operating with CNG 100% .

- Sister Company of PT. Raja Rafa Shakira, which is on of the prominent One-Stop CNG Provider & Services Company in Indonesia.
- The Company provides CNG conversion services for Bi-Fuel, Diesel Dual Fuel, and Mono or Dedicated CNG conversion.
- The Company also provides LPG conversion services for the Fishery & Agricultural engines.
- The Company holds an exclusive distributor alliance from a CNG Automotive Manufacturing Company head quartered in Italy.
- The Company holds an exclusive partnership with PT. Green Transportasi Indonesia (Green-Trans) , which is the first logistic company using all CNG fuel trucks.
- Since its establishment , it has converted 3150 Medium Size Gasoline Vehicles to NGV, 65 units Diesel Fueled Medium-Size & Heavy-Duty Trucks to NGV, and 288 small Gasoline Fisherman Boats to LPG Fuel in Indonesia

TIGER AUTOMOTIVE – RAJA GAS SAMUDRA



TIGER AUTOMOTIVE – RAJA GAS SAMUDRA



PEMASANGAN TAKSI BLUE BIRD - SUTOYO



PEMASANGAN KEND. DINAS PEMDA DKI



PEMASANGAN KEND. DINAS LEMIGAS



PEMASANGAN TAKSI BLUE BIRD – SPBBG CILILTAN



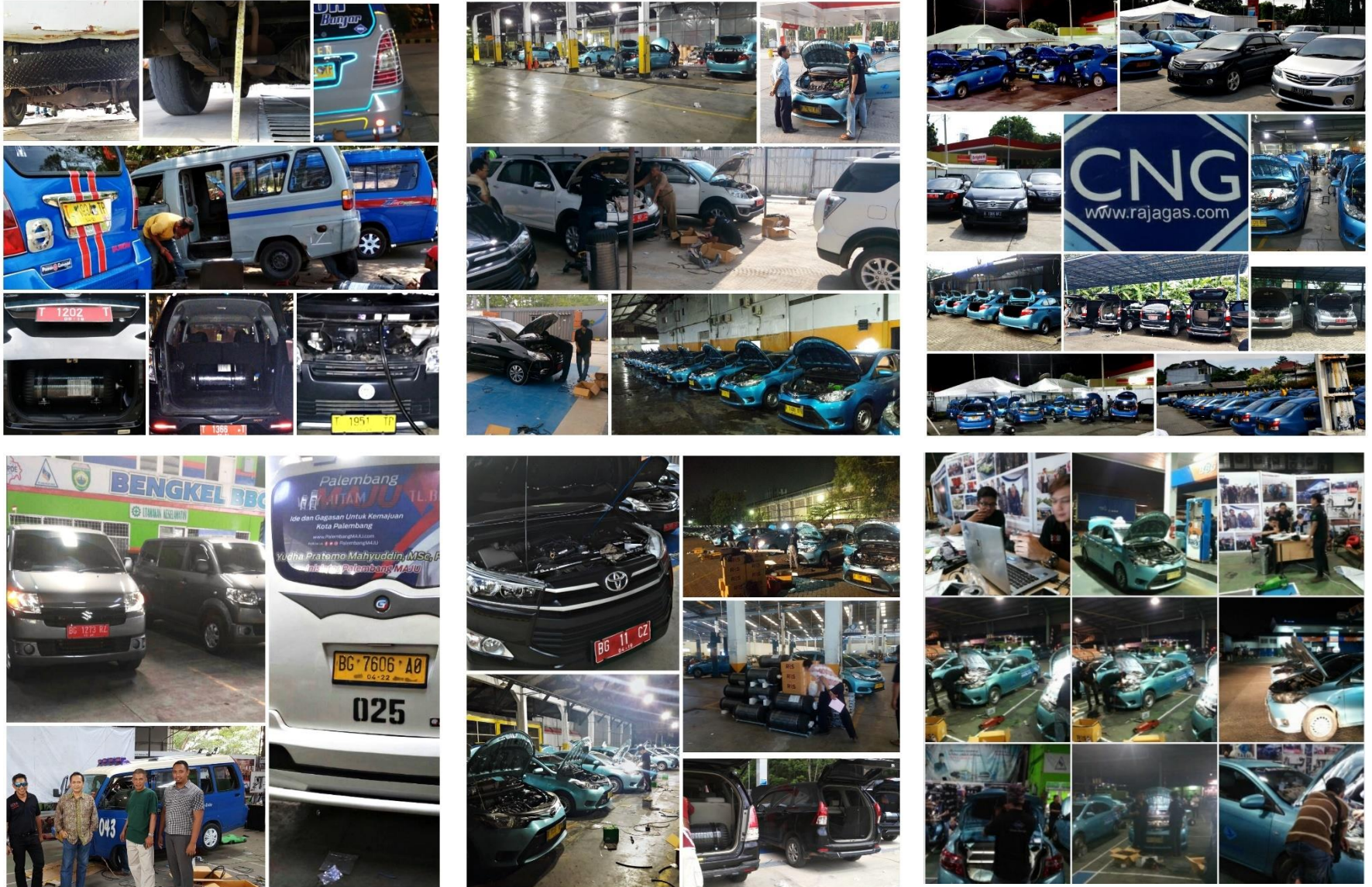
PEMASANGAN KEND. DINAS BALIKPAPAN



PEMASANGAN TAKSI PUTRA – SPBBG CILILTAN



CNG BIFUEL SYSTEM CONVERSION



DIESEL GENSET TO GAS CONVERSION



This Foto picture is the property of PSI & RGS

RRS LPG CONVERSION SYSTEM

Aside that PT. RRS conversion activities involve in CNG, our Company also owns an exclusive Distributorship on LPG Conversion Kit from Autogas Italy. Our LPG Conversion kit is very suitable to be use on small scale petrol engine with capacity under 25 HP, as such used in many fishery boats and agricultural equipments in Indonesia to be converted from petrol to LPG fuel.

Our LPG Conversion kit has been tested and approved by PT. Honda Power Products Indonesia, as the sole distributor company appointed by the Japanese automaker Honda Motor Co., Ltd.; thus, have led PT. RRS also to be officially granted to market and distribute the Honda LPG Converted equipments, as well as the after sale services.

PT. RRS in 2018 had collaboration sales & distribution agreement with PT. TANIKAYA MULTI SARANA as one of the leading supply company for the agricultural products in Indonesia.

Our Conversion kit are not only international certified by the ECE UN R67e, but also has an SNI EN 12806:2015 approved.



SOLE DISTRIBUTORSHIP & SNI CERTIFICATION



This is to certify that the Company
PT. RAJA RAFA SAMUDRA
 Casa Verde Building, 3rd Floor,
 Jl. Mampang Prapatan Raya No. 17 K,
 Mampang Prapatan, South Jakarta,
 Indonesia, is authorized dealer and
 direct importer of GASITALY LPG
 Electronic Regulator
 in the territory of INDONESIA

Brescia, 01/03/2018

Daniele Boaretto
 General Manager



Gasitaly S.r.l. - Via Girelli, 36 - 25125 Brescia - Italy - Tel. +39 030 7776664



SERTIFIKAT KESESUAIAN

No. : 03418LN-495-LSPro PPMB

Lembaga Sertifikasi Produk PPMB, Balai Sertifikasi
 Direktorat Standardisasi dan Pengendalian Mutu
 Direktorat Jenderal Perlindungan Konsumen dan Tertib Harga
 Kementerian Perdagangan
 Jl. Raya Bogor Km. 36, Cicaes, Jakarta 13740
 Tel. +62 21 87706033
 Fax. +62 21 87704252

Lembaga Sertifikasi Produk PPMB - Kementerian Perdagangan memberikan Sertifikat Kesesuaian ini kepada:

GASITALY SRL.

Via Girelli 36, Brescia 25125, Italy

Lokasi Pabrik : MIMSUNAR OTOGAZ DONUSUM SIST. LTD.
 Serifalli Mah Bostanci Yolu, Sehat Sk. No. 43 Umraniye, Istanbul, Turkey
Produk/ Standar : Konverter Kit / SNI EN 12806 : 2015
Jenis Produk/ Model/ Merek : Terlampir
Type Sertifikasi : 5
Perjanjian Sertifikasi : 042/PKTN.3.9.PTS.01/Kontrak/04/2018

dan menyatakan bahwa mutu produk tersebut di atas telah memenuhi persyaratan Standar Nasional Indonesia (SNI)



Tanggal Terbit : 21 Juni 2018

Tanggal Berakhir : 20 Juni 2022

"Sertifikat ini diberikan kepada perusahaan sebagai bukti kesesuaian produk terhadap persyaratan skema sertifikasi"



**PT. RRS BUSINESS UNIT ON LOGISTIC TRANSPORT
COLLABORATION WITH PT. GREEN TRANS
INDONESIA (“GREEN-TRANS”)**

THE FIRST LOGISTIC COMPANY USING CNG FUEL

Delivering Goods
in an Environmentally Cleaner Way



AFFILIATES



PT. GREEN TRANSPORTASI INDONESIA | CNG DEDICATED LOGISTIC FLEETS CONVERTED BY RAJAGAS AUTOMOTIVE

OUR NGV LOGISTIC FLEETS



**PT. RRS BUSINESS UNIT ON ADVISORY, EPC,
AND BIOMETHANE DEVELOPMENT IN
COLLABORATION WITH PT. RAJA GAS
KHARISMA**

CNG DEVELOPMENT ADVISORY & DEVELOPMENT

CNG Advisory

CNG Feasibility Study

CNG EPC & PM

CNG Investor Partner

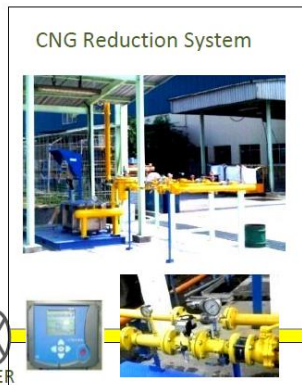
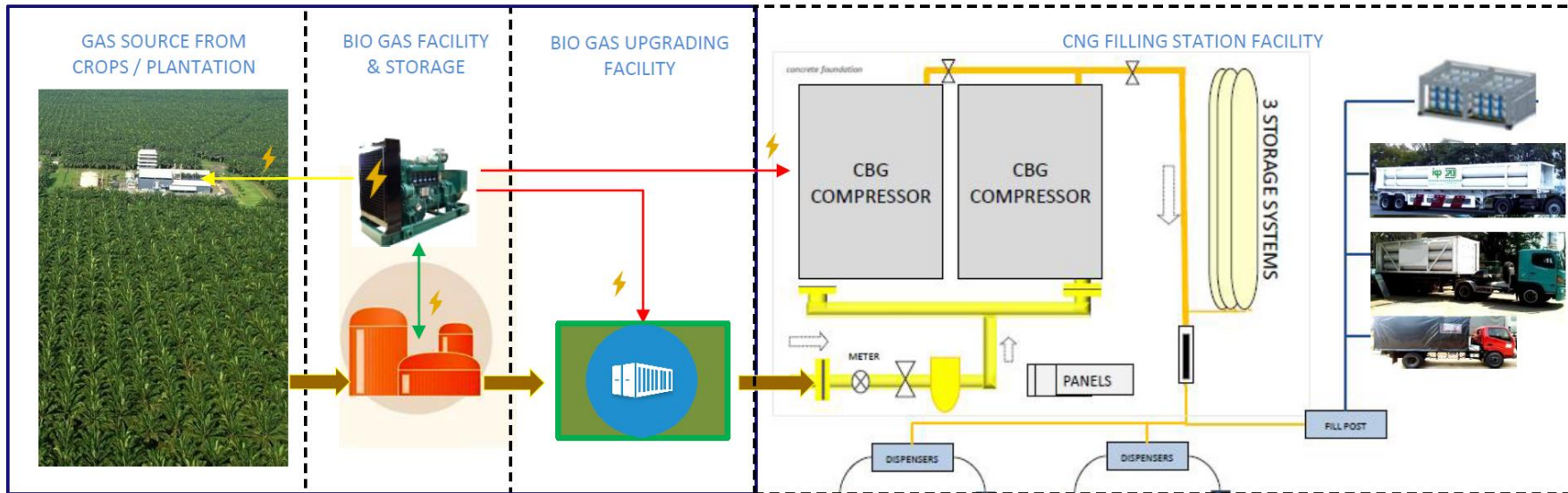
- EPC & PM for PT. Indogas Kriya Dwiguna (*CNG MS Kalidawir, Sidoarjo , 2009-2011*), CNG Market Development Advisory for PT. Petross Gas (2013-2014),
- CNG Infrastructure (Mother – Daughter Concept) Technical Economical Feasibility Study work & Front End Engineering Design for PT. Golden Energy Mines, Tbk (2013),
- Advisory for Sinarmas Mining Group on the CNG Conversion work for the Company hauling truck in Sumatra (2013 - 2014).
- EPCI Biogas Gas, Upgrading, CBG, CBG Delivery, and Conversion of 51 Genset 7 Unit Trucks for PT. Dharma Satya Nusantara, Tbk in 2019.



BIOGAS & COMPRESSED BIOMETHANE GAS UNIT

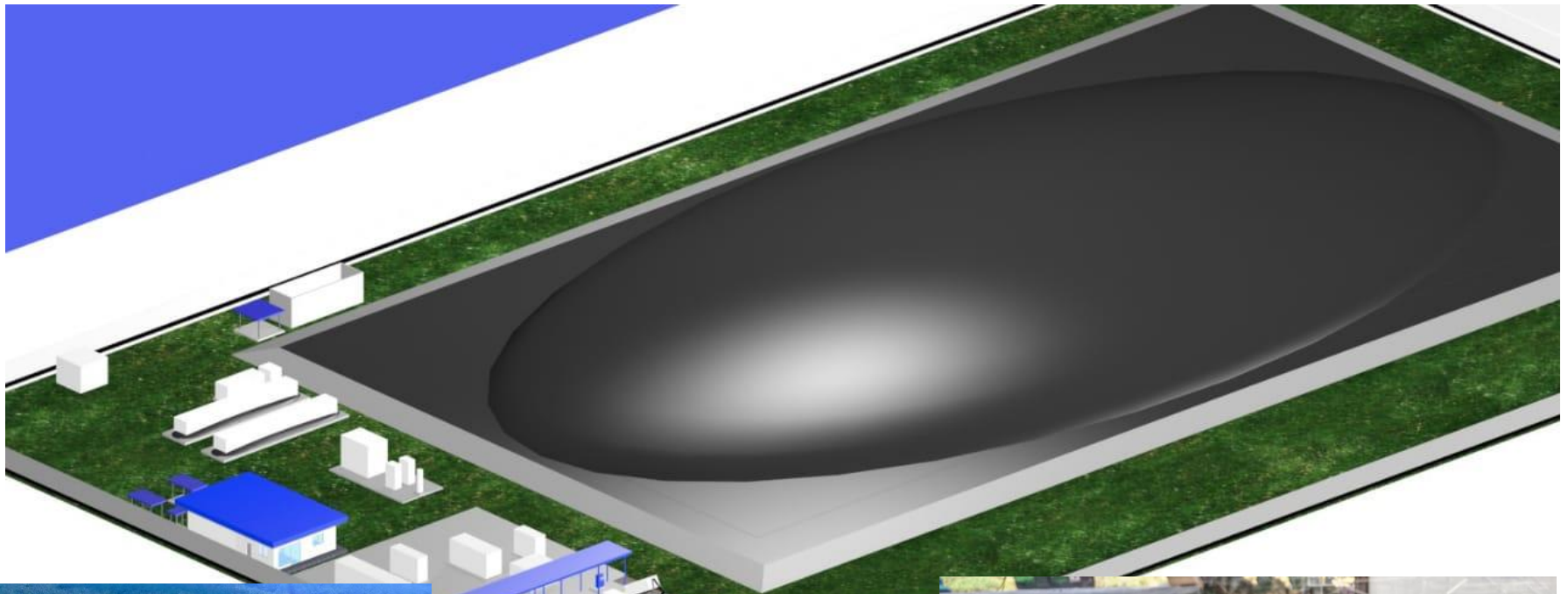
BIOMETHANE PRODUCTION

COMPRESSED BIOMETHANE



CBG TRANSPORT

THE FIRST BIOGAS, POWER GENERATION, BIOGAS UPGRADING, COMPRESSED BIOMETHANE GAS (CBG), CBG DISTRIBUTION, & CONVERSION PROJECT IN INDONESIA



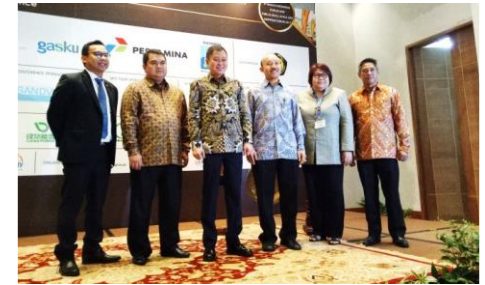
OTHER CORPORATE INFORMATION

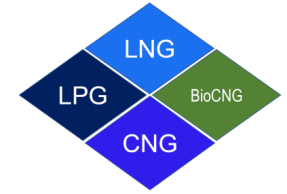
OUR GROUP WORK PROJECTS AND CLIENTS

- PT. Energi Trans Nusa (Consultant)
- PT. Duta Nugraha Pratama (CNG Trading)
- PT. Indogas Kriya Dwiguna (Consultant)
- PT. Mentari Fajar Gemilang (CNG Trading & Support)
- PT. Petross Gas (Business Consultant & Equipment Supply)
- PT. Aksara Andalan Prima (CNG Delivery)
- PT. T Energy (Operation & Business Consultant)
- PT. Sari Enesis Indah (CNG Supply)
- PT. Charoen Pokphand (CNG Supply)
- PT. Toyobo Knitting Indonesia (CNG Supply)
- PT. Astra Daihatsu Motor (CNG Supply)
- PT. Karawang Food Lestari (CNG Supply)
- PT. Golden Energy Mines, Tbk / Sinarmas Mining (CNG Advisory & FS)
- PT. Bumi Anugerah Semesta (CNG FEED & Tender Documents)
- PT. Citra Alam Jaya (Gas Advisory)
- PT. Gamma TVS Bajaj (CNG Delivery Support)
- Living World Mall Serpong (CNG Supply)
- PT. Gagas Energi Indonesia (CNG Station Operation & Maintenance)
- PT. Unilever Indonesia (Logistic Contract)
- PT. Kino Indonesia (Logistic Contract)
- Dadap City Mall Cengkareng (CNG Supply)
- PT. Green Transportasi Indonesia (CNG Conversion)
- PT. Pertagas Niaga (7 units of MRU Operations)
- PT. Kalbio Farma (CNG Supply)
- PT. Pertagas Niaga / RSPP (CNG Delivery)
- Hotel Amaris - Harmoni (CNG Supply)
- Paskal Mall, Bandung (CNG Supply)
- Living World Pekanbaru (CNG Delivery)
- Living Plaza & Balikpapan Plaza (CNG Delivery)
- Swiss Bellin Hotel Balikpapan (CNG Delivery)
- Supermall Karawaci (CNG Delivery)
- PT. Pertamina cq. Ditjen Migas award winner for 1.000 units Conversion for Automotive Vehicle 2016 State Budget (CNG Conversion)
- Mall Belatera - Kelapa Gading (CNG Supply)
- PT. Pertamina cq. Ditjen Migas award winner for 1.500 units Conversion for Automotive Vehicle 2017 State Budget (CNG Conversion)
- Awarded by PT. Dharma Satya Nusantara, Tbk on the Development of Infrastructure Facilities on Biogas Capturing, Upgrading Biogas, Power Supply, Compressed Biomethane, and the Distributing Compressed Biomethane, and conversion equipment Muara Wahau, Kalimantan Timur.
- PT. Loreal Indonesia (Logistic Contract)



PARTICIPATION IN NGV EVENTS





RRS GROUP

Soho Pancoran Building.

Splendor Tower. 27th Floor / Unit 2711

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Jakarta Selatan 12810. Indonesia

Phone : : (+62) 21 501 01585;

Email: sekretariat@rajarafasamudra.com. Mobile: 0815 864 09902

Email: robbi_sukardi@rajarafasamudra.com

WORKSHOP:

Jl. Raya Jatimakmur No.38/Gg. Kenari. Pondok Gede. Bekasi. 17413. Indonesia

visit us at:

WWW.RAJAGAS.COM

WWW.GREEN-TRANS.COM