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Company Overview



Who We Are



LEADING THROUGH INNOVATION AND TECHNOLOGY

Leading Global Industrial packaging company

First to launch Type-IV Composite Cylinder for LPG, CNG (CNG cascade and on-board application), and Hydrogen in India. **2nd Largest** Composite Cylinder manufacturer worldwide.



Dominant market position with over 55% market share in domestic Industrial packaging. World's largest manufacturer of large size plastic drums

2nd largest MOX film manufacturer in India



Market leader in 9 out of 11 countries it operates in





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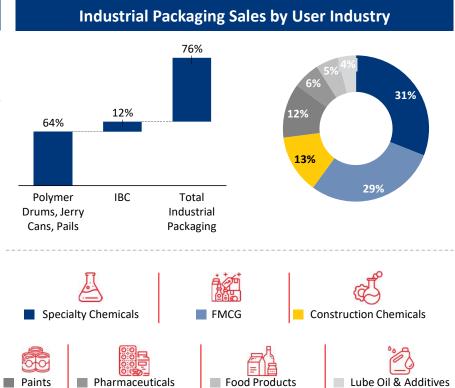
Major Player in manufacturing of HDPE pipes in India

First to launch Intermediate Bulk Container (IBC) in India and **3rd Largest** IBC manufacturer worldwide.

Time Technoplast at a Glance



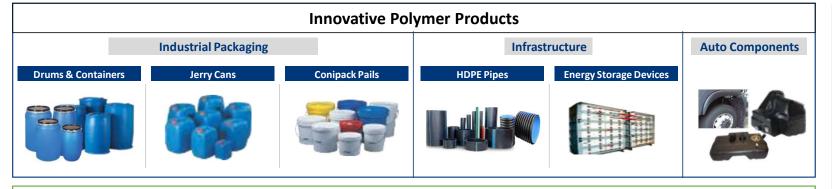
Business Mix (FY24 Total Revenue : Rs. 5,007 Cr.)				
75 %	(Rs. 3,725 Cr.) Established Products	25%	(Rs. 1,282 Cr.) Value-Added Products	
64%	Industrial Packaging Polymer Drums, Jerry Cans, Pails	12%	Industrial Packaging - Intermediate Bulk Container (IBC)	
7 %	Infrastructure Polyethylene (PE) Pipes, Energy storage devices	10%	Composite Products (LPG, CNG & Oxygen)	
4%	Technical & Lifestyle Turf & Matting, Disposable Bins, Auto Products	3%	MOX Film (Techpaulin)	
				L



- Strong presence in Asia & MENA regions
- o 14+ recognized brands with over 900 institutional customers globally
- Well established in-house R&D team of over 30 people combined experience of 450+ years

Innovative and Technology Oriented Products





- Focus on Innovative & Tech oriented polymer products and have several firsts to our credit-
- 1st to launch PE drums to replace steel
- 1st to launch IBC
- 1st to launch Composite Gas cylinders
- 1st to launch Tubular Gel Batteries
- 1st to launch Anti-Spray Rain Flaps
- 1st Plastic Fuel tanks in CVs
- 1st to receive approval for Composite cylinders for Hydrogen

Value Added Products









Hi-Tech Products



Composite Air Tank



Hydraulic Oil Tank

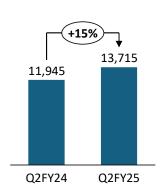


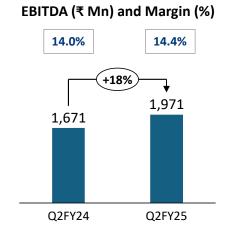
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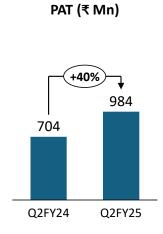
Q2FY25 Financial Snapshot



Total Income (₹ Mn)







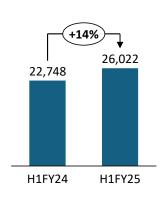
Particulars	India	Overseas
Volume Growth (17% YoY)	16%	18%
Revenue Growth (15% YoY)	14%	16%
Revenue Contribution	66%	34%
EBITDA Margin	14.4%	14.4%
PAT Margin	6.9%	7.8%
Cash Profit Margin	10.0%	10.6%

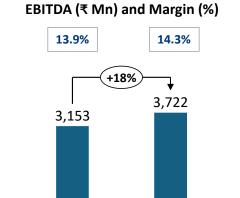
Value added products grew by 21% in Q2FY25 as compared to Q2FY24, while established products grew by 13%. The company's focus remains to increase the share of value-added products in its revenue and improve margins.

H1FY25 Financial Snapshot



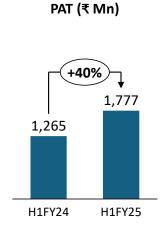
Total Income (₹ Mn)





H1FY25

H1FY24



Particulars	India	Overseas
Volume Growth (16% YoY)	16%	16%
Revenue Growth (14% YoY)	14%	14%
Revenue Contribution	65%	35%
EBITDA Margin	14.4%	14.1%
PAT Margin	6.4%	7.6%
Cash Profit Margin	9.8%	10.4%

- Value added products grew by 20% in H1FY25 as compared to H1FY24, while established products grew by 13%. The company's focus remains to increase the share of value-added products in its revenue and improve margins.
- Total Debt reduced by Rs. 518 Mn from H1FY24
- Net Cash from Operating Activities in H1FY25 is Rs. 1,378 Mn

Over three decades of leadership position



Pre IPO (prior to 2007)

Post IPO (from 2007)

1992 - 2000

Incorporated Pvt. Ltd. Co.Production facilities in western region



 Launched Lifestyle products



 Expanded in North and South India

2001 - 2006

 Launched Automotive related Products



- Production facilities in East India
- Ventured in Thailand
- Acquisition of TPL Plastech Ltd. formerly known as Tainwala Polycontainers Ltd.

2007 - 2010

- o Got listed on NSE & BSE
- Entered into battery business by way of acquisition of NED Energy Ltd.
- JV with Mauser for manufacturing steel drums
- Green field manufacturing set up in Sharjah (UAE)
- Additions in products base such as Plastic Fuel Tanks, IBC and Disposal Bins







2011 - 2020

- Green field manufacturing set up overseas - Bahrain, Indonesia, Vietnam, Egypt, Malaysia and USA
- Acquisition in Industrial Packaging Segment – Thailand, Taiwan and Saudi Arabia
- Started HDPE and Cable
 Ducts pipe manufacturing
- Acquisition of company for technology of Composite Cylinders, consolidation with existing operations and Launch of LPG cylinders
- Started MOX films business



2020 onwards

- Expanded in USA with 3rd
 Greenfield unit
- 1st and only company in India to receive PESO approval for manufacturing of Type-IV CNG cylinders for Cascade and on-board applications.



- Expanded composite cylinder portfolio with launch of Type-III Cylinders for breathing air and medical oxygen.
- 1st company in India to receive PESO approval for manufacturing of High-Pressure Type-IV Composite Cylinders for Hydrogen.

Management Overview



EXECUTIVE DIRECTORS

Mr. Bharat Vageria

Managing Director

Mr. Naveen Jain
Whole Time Director

Mr. Raghupathy Thyagarajan Whole Time Director,

Mr. Vishal Jain
Non-Executive Director



Mr. Sanjeev Sharma

Whole Time Director

Heads Overseas
Industrial Packaging
Operations



GMs / Commercial Managers



Industrial Packaging

(USA, Thailand, Taiwan, Indonesia, Malaysia, Vietnam, Sharjah, Bahrain, Saudi Arabia & Egypt)

INDEPENDENT DIRECTORS

Mr. Sanjaya Kulkarni

Chairman (Non-Executive)

Mr. Mahinder Kumar Wadhwa

Director (Non-Executive)

Mr. Pradip Kumar Das

Director (Non- Executive & Independent)

Mr. Deepak Bakhshi

Director (Non- Executive & Independent

Mr. Praveen Kumar Agarwal

Director (Non- Executive & Independent

Ms. Triveni Makhijani

Director (Non- Executive & Independent



India Operations



Business Heads



Industrial Packaging
Composite Cylinders (LPG, CNG & Oxygen)
Infrastructure (PE Pipe and Energy Storage
Devices)

Others

Wide Geographical Presence



Manufacturing Presence in 11 Countries to meet local demand | 20 Manufacturing locations in India





WE are where OUR CUSTOMERS are.... Focus on high growth manufacturing geographies

...with global marquee clients



















































































Entrenched and longstanding relationship across multiple locations













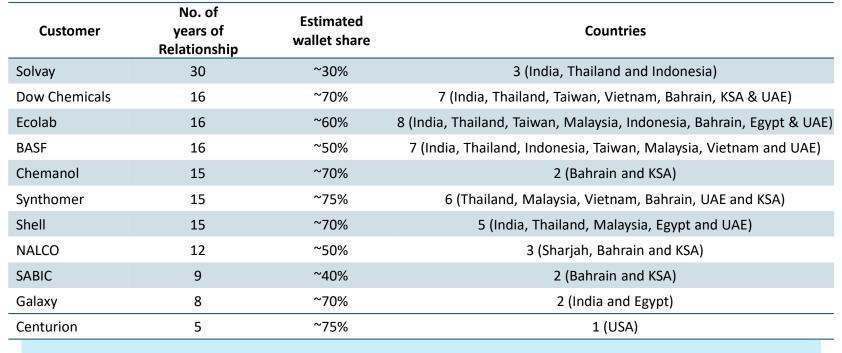






Henke

Established long-term relationships has allowed capturing significant share of business
for reputed clientele across the globe



Low customer concentration with no customer accounting for more than 5% of total sales

Diversified end user base with significant part of revenue coming from specialty chemicals and relatively non-cyclical sectors like FMCG, F&B & Paints





















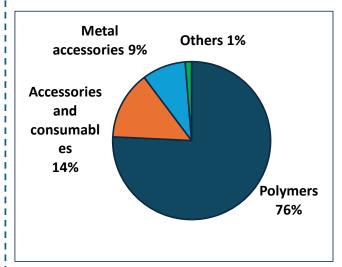
Diversified and Strong Sourcing/Supplier Base



Established relationship with most of the Global Suppliers

INDIA	MENA Lo	SOUTEAST ASIA	USA
	Lo	ocal	
		· • • • • • • • • • • • • • • • • • • •	
ONGC Petro	Q-Chem, Qatar	Chevron Phillips, Singapore	Chevron Phillips, USA
Reliance Industries	Sabic Asia Pacific, KSA	GS Caltex, Korea	Exxon Mobil, USA
Indian Oil Corporation	OQ Oman	PTT Global Chem, Thailand	
HPCL – Mittal Energy Ltd	Borouge, Abu Dhabi	Sabic Asia Pacific, Malaysia	
	Sidi Kerir Petro, Egypt	Formosa Plastics, Taiwan Lotte Chemical, Malaysia	
	Imp	oorts	
Q-Chem, Qatar Chevron Phillips, Singapore GS Caltex, Korea PTT Global Chem, Thailand Borouge, Abu Dhabi	GS Caltex, Korea PTT Global Chem, Thailand ONGC Petro, India	Q-Chem, Qatar	

Polymers account for the largest share in raw materials



Risk distributed by having MULTIPLE SUPPLIERS; Each region procuring majority of raw material locally

Robust pass-through mechanism to manage price volatility; 100% of packaging business is B2B

Established Products - Industrial Packaging



- Time Tech produces Polymer drums / barrels, Jerry cans and Pails for varied packaging requirements.
- The Company uses technologies of polymer processing such as blow moulding, injection moulding and extrusion to produce a wide range of products.
- These are made through a fully automated continuous process without any welds or joints. They are fitted with special stoppers, plugs, bungs, inserts, caps, handles to meet specific design & requirements.
- The Company caters to varied sectors like chemicals, paints and pigments, food and beverage, petroleum, industrial coatings, agricultural, pharmaceutical, mineral, packaging, automotive and building products.

Range:	5 Ltr to 250 Ltr capacity
Brand:	Techpack
Manufacturing Locations:	India (16) & Overseas (10)
Industry:	Chemicals, Petrochemicals, Paints, Etc.

Global Industrial Packaging Ranking (Polymer)

Company	Polymer Drums	IBC
Mauser	2	2
Schutz	3	1
Greif	4	4
TimeTech	1	3



Key Highlights

- Over 900 institutional customers
- Largest manufacturer of Industrial Packaging in Asia and MENA Region
- Increasing strategic tie-ups with MNCs across different countries due to significant presence in the Asia and MENA Region
- Market Leader in 9 out of 11 countries in Industrial Packaging

Industrial Packaging Industry – Market & Development



Market

 The global market for industrial packaging is estimated to reach \$123.2 Bn by 2032, at a CAGR of over 5.9% owing to increasing trends in end-use industries such as automotive, food & beverages, chemical, construction and oil & lubricant.

Drivers

- Shift from metal to polymer packaging due to technical and operational advantages and lower costs.
- A clear trend towards IBC is visible, which is correlated with a growing demand for reconditioning solutions mainly in developed regions.
- Given the presence of strong domestic demand for specialty chemicals, low cost
 of production and availability of skilled labour, large foreign players are
 increasingly looking at India as an alternative investment destination due to
 implementation of strict environmental norms in China.

Emerging Packaging Scenario

- Multinational companies looking east for lower cost of production.
- Bringing in Good Manufacturing practices and improved handling systems.
- Improvement in transportation and handling facilities.
- Bulk transportation reducing logistic and shipping costs

Packaging Product	Asia (Mn Units)		Global (Mn Units)			
(Market Size)	India	Rest of Asia	Total	Asia	RoW	Total
Steel Drum	11	131	142	142	127	269
	(41%)	(87%)	(80%)	(80%)	(81%)	(81%)
Polymer Drums	16	19	35	35	30	65
	(59%)	(13%)	(20%)	(20%)	(19%)	(19%)
Total	27	150	177	177	157	334
	(100%)	(100%)	(100%)	(100%)	(100%)	(100%)
IBCs	1	2.5	3.5	3.5	15.0	18.5
	(28.5%)	(71.5%)	(100%)	(19%)	(81%)	(100%)

Time Tech Customer Segment-Industrial Packaging

Segment	% Business	Expected Growth in FY25
Speciality Chemicals	31%	11% - 13%
FMCG	29%	11% - 13%
Construction Chemicals	13%	6% - 8%
Paints & Inks	12%	6% - 8%
Pharmaceuticals	6%	8% - 10%
Lube Oils & Additives	4%	6% - 8%
Others	5%	5% - 7%

Established Products - Infrastructure



High Density Polyethylene (HDPE) Pipes





- HDPE pipes are capable of handling semi-solid & gaseous effluents and has unmatched resistance to corrosive chemicals. They are lighter, easy to handle & install compared to heavier metallic or concrete pipes.
- These pipes are 100% leak proof therefore they are preferred over Galvanized, Ductile iron, Cement and conventional piping systems.

Range:	20 mm to 1400 mm in different pressure range.
Brand:	Max'm PE Pipes
Manufacturing Locations:	India (4)
Industry:	Water Supply, Irrigation, Sewage, Effluent Treatment, Desalination Plant, Power Plants, Cable ducting, Etc.

Launched new generation multilayer pipes for power / communication cable ducts with silicon in-lining. The pipes / ducts have substantial business potential specially in development of Smart Cities

Energy Storage Devices





- TimeTech manufactures valve-regulated lead-acid (VRLA) Batteries conforming to National and International Standards by adopting internationally proven Eco-Friendly processes.
- These batteries has a proprietary Grid alloy composition with high tin composition which improves the positive grid corrosion resistance and battery life.

Range:	Up to 3000 Ah
Brand:	MAX Life, MAX Pro, Sun Qualita & MAX Qualita
Manufacturing Locations:	India(2)
Industry:	Solar power, UPS, invertors, Telecom, Railway Etc.

PE Pipes Order Book



S. No.	Name of the Party	Total Value (Rs. Cr.)
1	KLSR Infratech Ltd.	58.75
2	WPIL Ltd	39.54
3	Larsen & Toubro Construction	30.95
4	JWIL Infra Ltd	15.0
5	Enviro Infra Engineers Ltd.	15.0
6	Megha Engineering & Infra Ltd	10.0
7	India Hume Pipe Pvt Ltd.	10.0
8	BSCPL Infrastructure Ltd	10.0
9	J K Projects Pvt Ltd	6.25
10	Parixit Irrigation Ltd.	4.75
	Total Business	200.24

Established Products - Technical & Lifestyle

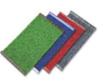


Turf & Matting











- TimeTech is one of the leading players in the matting segment. TTL has been delivering value for money solutions across industries and customers.
- These Lifestyle Products are not only functional but also add to the aesthetics
- Brands:
 - Duro Turf/Soft: Matts used to scrape off dirt
 - Duro Wipe: Matts for wiping water
 - Duro Mat Regullar
 - Duro Active: Mats for application in industrial outlets
 - Duro Comfort: For professionals demanding long standing hours
- Manufacturing Locations: India(2)
- Industry: Household, Hotels, Hospital, Multiplex, Etc.

Disposal Bins



- Disposal Bins a necessity for hygienic life and made from recyclable material. These Bins adhere to stringent international quality standards. It's superior design ensures easy handling
- Offers high resistance to UV Radiation & Decay.
- Range: 120 & 240 Ltr capacity
- Brand: Dumpo Bins
- Manufacturing Location: India(1)
- Industry: Household, Commercial, Industrial, Municipal Corporation, Etc.

Auto Components











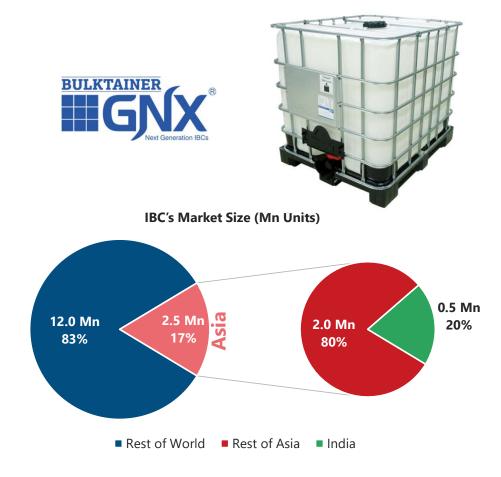


- Rain flaps consists of unique surface formed by multiple tuffs / grass blades with a strong and sturdy backing.
- The company offers a range of high performance, dependable & long lasting De-aeration & Fuel Tanks., which are stronger, lighter in weight, corrosion resistant and more efficient to transfer the coolant.
- The Air Ducts manufactured by the Company meets the high performance requirement needed by the automobile industry.
- Brand: 3S RainFlaps, TechDAT & TechTANK
- Manufacturing Locations: India(3)
- Industry: Automotive

Value Added Products – Intermediate Bulk Containers - IBC



Range:	■ 1,000 Ltr capacity
Capacity:	6.3 Lakh units p.a. in India and14.4 Lakh units p.a. overseas
Users:	Petrochemicals, Foods, Solvents, etc.
Features:	 Space Efficiency, Eliminate Waste, Durability and Eco-friendly.
Opportunity:	 Rapid growth in chemical industries across Asia Increasing automation Multi-fold growth in trade from Asia to the western countries
Position:	 3rd Largest manufacturer Worldwide.



Value Added Products – MOX Film



Range: • 35 to 320 GSM thickness

Capacity: • 12,000 MT p.a.

Features:

Opportunity:

Agriculture, Infrastructure, Packaging, Commercial
 Vehicles and many more

 Tear/Puncture Resistant, 100% Waterproof,
 Weathering Resistant, UV Resistant, and Chemical Resistant.

The size of agricultural films market was USD 12.2 Bn in 2022 and is projected to grow at a CAGR of 6.9% to reach USD 18.5 Bn by 2028.

 Asia Pacific is likely to see robust growth in these films and TIME would be leveraging its wide distribution network in domestic as well as overseas market















Focus on Composites



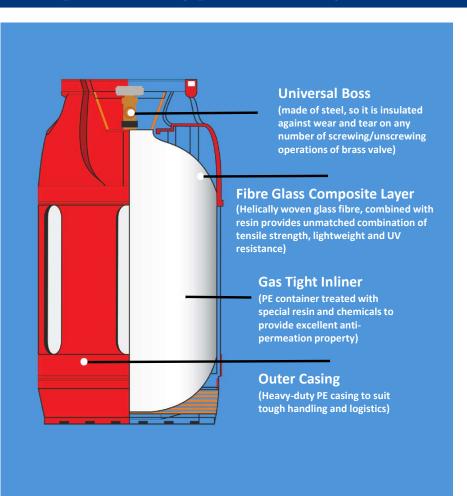


We are at inflection point Shifting from Tech based products to High-Tech products with focus on Composites

- Composite is a material of future replacing metals in high performance applications
- Tectonic shift
- Harnessing new growth opportunities in existing business
 - Launching new products with huge business potential
 - Aspire to be largest Composite product company in the country
 - New product launches will help improve margins and reduce working capital
 - We draw strength from the launch of LPG Composite Cylinders and maintaining market leadership in 10 years

Composites - Type-IV LPG Cylinder







- World's largest range of composite cylinders; 2nd largest manufacturer worldwide
- Approved in over 50 countries and supplied on over 45 countries
- There are over 2.5 bn metal cylinders in circulation worldwide implying significant addressable opportunity
- Supplies ongoing to Indian Oil Corporation Limited (largest oil marketing company in India) in domestic market; Discussions ongoing with BPCL and HPCL
- New countries added recently include Taiwan, Ghana, Nigeria, Bermuda, St. Lucia, Romania, Burundi, Australia, UAE and the USA

LPG Cylinder Order Book



S. No.	Name of the Party	Country	No. of Cylinders (in Lakh)	Completion Period	Total Value (Rs. Cr.)
1	Indian Oil Corporation Ltd.*	India	15.00	2 years	405.0
2	BEXIMCO Petroleum Ltd.	Bangladesh	2.70	6 - 12 Months	80.0
3	Others	Sudan, Taiwan, Romania, South Korea, Maldives, Somalia, Russia, Maldives etc.	1.70	6 - 12 Months	50.0
	Total Business		19.40		535.0

^{*}Supply already started from April 2022

Company is currently supplying LPG cylinders in over 51 countries

New countries added recently include

Ethiopia, Albania, Iraq, Taiwan, Ghana, Nigeria, Bermuda, St. Lucia, Romania, Burundi, Australia, UAE and the USA

MoPNG begins transition into Composite LPG Cylinder



MoPNG initiates transition from steel to new age fiber-based LPG cylinders



Union Minister of Petroleum and Natural Gas, Hardeep Singh Puri (File Photo- ANI)

New Delhi [India], August 5 (ANI): The Ministry of Petroleum and Natural Gas has announced the gradual replacement of traditional steel LPG cylinders with new-age fibre-based composite cylinders. This was disclosed by Suresh Gopi, Minister of State in the Ministry of Petroleum and Natural Gas, in a written reply in the Rajya Sabha on Monday.

As of July 1, 32.68 crore active domestic LPG consumers are being served by public sector Oil Marketing Companies (OMCs). To ensure a steady supply of refills and to accommodate new LPG connections, OMCs have over 50 crore cylinders in circulation, most of which are steel cylinders. To meet the needs of replacement and future demand, OMCs regularly review. their inventories and issue tenders for the procurement of new cylinders.

Composite cylinders, a recent introduction by PSU OMCs, are gradually being introduced into the market. These innovative cylinders feature a three-layered construction: an inner liner made of blow-moulded High-Density Polyethylene (HDPE), a composite layer of polymer-wrapped fibreglass, and an outer jacket of HDPE.

While these composite cylinders are more expensive than the traditional steel ones, they offer several advantages—they are significantly lighter, rust-free, translucent, and notably safer.

OMCs procure these composite cylinders through a competitive bidding process from manufacturers who meet the tender requirements. Currently, there is no proposal for OMCs to set up their manufacturing facilities for these cylinders in India.

To promote the adoption of composite cylinders, OMCs have launched various awareness campaigns. These include generating consumer awareness through the display of banners and standees, distributing pamphlets during home deliveries, and other marketing initiatives. These efforts are designed to educate consumers about the benefits of composite cylinders and to encourage their usage. (ANI)

LPG Distributor Meet













IOCL Distributor Meet

Sr. No	Location	Date
1	Hyderabad	06.03.2024
2	Trichy	11.03.2024
3	Bangalore	27.06.2024
4	Delhi	29.06.2024
5	Chennai	06.07.2024
6	Pune	09.07.2024
7	Jaipur	12.08.2024
8	Surat	14.08.2024
9	Ranchi	28.08.2024
10	Kharagpur	30.08.2024
11	Coimbatore	12.11.2024
12	Vijayawada	13.11.2024
12	Vijayawada	13.11.2024

HPCL also has conducted distributor meet in Mumbai on 6th November 2024 for increasing awareness.

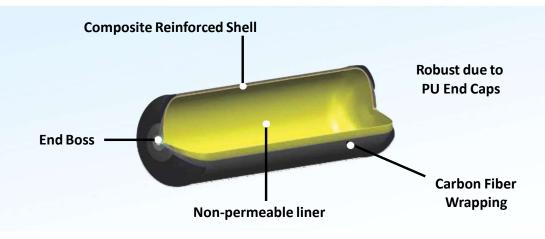
IOCL Quantity Allotment



S. No	State	Quantity (Nos.)	% share
1	Uttar Pradesh	2,24,160	15%
2	Tamil Nadu	2,04,830	14%
3	Delhi	1,45,900	10%
4	Karnataka	1,38,810	9%
5	West Bengal	1,23,150	8%
6	Gujarat	86,160	6%
7	Telangana	81,940	5%
8	Punjab	60,940	4%
9	Madhya Pradesh	59,480	4%
10	Rajasthan	48,220	3%
11	Haryana	45,310	3%
12	Andhra Pradesh	44,580	3%
13	Jharkhand	34,720	2%
14	Bihar	34,250	2%
15	Kerala	31,180	2%
16	Assam	21,920	1%
17	Uttarakhand	18,360	1%
18	Maharashtra	15,760	1%
19	Odisha	15,220	1%
20	Chattisgarh	14,910	1%
21	Manipur	8,720	1%
22	Tripura	6,860	0%
23	Pondicherry	6,510	0%
24	Mizoram	6,200	0%
25	Himachal Pradesh	4,340	0%
26	Meghalaya	4,090	0%
27	Jammu & Kashmir	3,020	0%
28	Nagaland	2,470	0%
29	Sikkim	1,990	0%
-	Total	14,94,000	100%

Value Added Products – Type-IV CNG Composite Cylinders







Increases Gas
Carrying Capacity



70% Lighter In Weight



Increases Fuel Efficiency



Maintenance Free



Metal free / Corrosion free In liner



Higher Service Life



Explosion Proof

Comparative Advantages – Type-IV CNG Composite Cylinders



Gen I

Full Steel Cylinders - Metal prone to rust and corrosion. Very heavy.



Metal Cylinders

Manufacturer:

- · Everest Kanto Cylinder Ltd.
- Rama Cylinders Pvt. Ltd.
- J P Minda Group
- · Sahuwala Cylinders (P) Ltd.

Gen II

Lighter Steel Cylinders - Wrapped with carbon fibre partially on side body only. Top and bottom steel ends open/exposed. Prone to rust and still heavy.



Nobody in India

Type II Metal Cylinders - Side wrapped with Carbon Fibre

Gen III

Aluminum Cylinders - Wrapped with carbon fibre all around but has a metal liner. Prone to galvanic corrosion. 30-35% heavier than Type IV cylinders.



Manufacturer:

- Luxfer Gas Cylinders, USA
- Worthington Industries, USA
- Catalina Cylinders, USA (recently acquired by Uttam Composites, LLC)
- Faber Cylinders, Italy

Type III

Aluminum Cylinders - Fully wrapped with Carbon Fibre

Gen IV

Non-metallic polymer liner -Wrapped with carbon fibre all around. No rust, No corrosion. Lightest cylinders in the evolution chain. Latest technology.



Manufacturer:

- Time Technoplast Ltd., India
- · Indoruss Synergy Pvt. Ltd. (TK-Fujikin-South Kores)
- · Hexagon Agility, USA (Hexagon Group, Norway)
- Luxfer Gas Cylinders, USA
- Worthington Industries, USA
- Faber Cylinders, Italy

Type IV

Polymer - Non metallic liner wrapped with Carbon Fibre

Type-IV Cylinders – Sizes and Bar Pressure



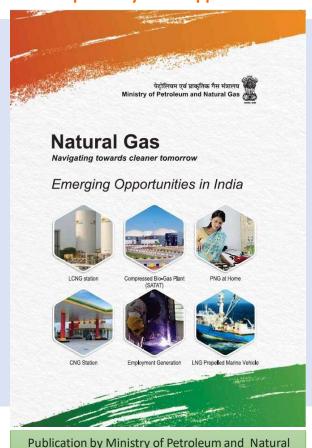
CNG cylinders					
Size	Working Pressure	ure Applications			
60 Ltrs	200 Bar	On-Board Applications for vehicles			
156 Ltrs, 350 Ltrs	250 bar	Storage and Transportation Applications			
	Hydrogen Cylinders				
60 Ltrs	500/700 Bar	For hydrogen Fuel cell Passenger vehicles			
100 Ltrs, 150 Ltrs 350 Ltrs	500/700 Bar 350 Bar	For hydrogen Fuel cell passenger vehicles And Commercial Vehicles			
350 Ltrs	350 bar	For storage & transportation of Hydrogen			

New CNG Business in consonance with Govt.'s policy to expand use of CNG



CNG Composite Cylinder Applications

- CNG Gas Distribution
 - Cascades
 - Mobile Refueling Units
 - Compressed Bio-Gas Plant
 - Gas Generators for Telecom Towers



Gas : Emerging Opportunities in India for Natural
Gas

- On Board Applications
 - Roof Mounted Bus
 - Chassis Mounted Truck
 - CAB Mounted Truck
 - Boat
 - Car
 - 3 Wheelers / 2 Wheelers

Type-IV CNG Composite Cylinders – Cascade Application





Type IV CNG Cylinder Cascades
Lighter – Carries 220% More Gas

Type IV CNG Cylinder – Metal Free

Why Move Steel?

Move Gas Instead.

70% Lighter
Than Type I Cylinders

2.2 Times More Gas Per Trip

Reduce
Per kg CNG transportation
cost by almost 50%

NO Dry Outs

• Approved by PESO and Third party (Bureau Veritas – Europe) in August 2020 for Type-IV cylinder for the first time in India.

Type-IV CNG Composite Cylinders – Cascade Application



Carries DOUBLE the quantity of gas

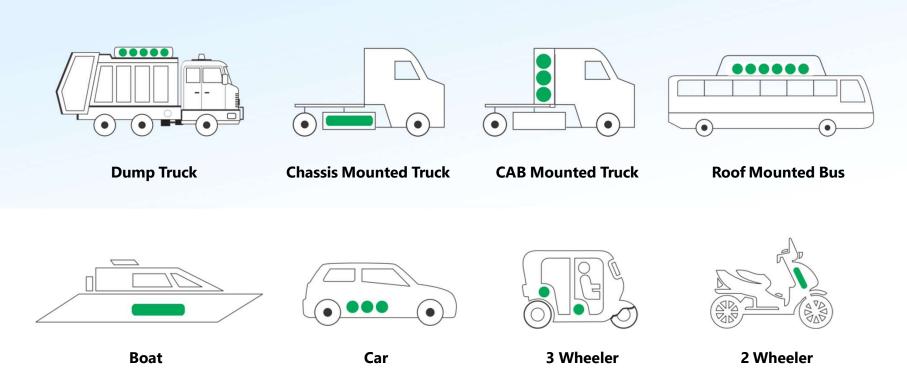


Cuts operations cost by **HALF**



Type-IV CNG Composite Cylinders – Onboard Applications





Approved by PESO and Third party (Bureau Veritas – Europe) in May 2021 for Type-IV cylinder for the first time in India.

CNG Cylinder: Overall Market Potential



Huge revenue potential given India's low penetration of CNG fuel stations and CNG vehicles

	Total Estimated Business (Rs. Cr.)	Business in No. of Years	Estimated Market Per Year (Rs. Cr.)	Conversion %	Total Estimated Business (Type- IV) per year (Rs. Cr.)
CNG Cascades	11,453	8	1,432	50%	716
MRUs	1,320	4	330	50%	165
Compressed Bio Gas	6,000	3	2,000	20%	400
Gas Generators for Telecom Towers	4,800	4	1,200	20%	240
CNG for Intracity Buses	5,304	4	1,326	50%	663
Total Estimated value of Business	28,877		6,288	→	~2,200

Focus on buses; Commercial vehicles and passenger cars, estimated to have equal or more potential Business from commercial vehicles and passenger cars not factored

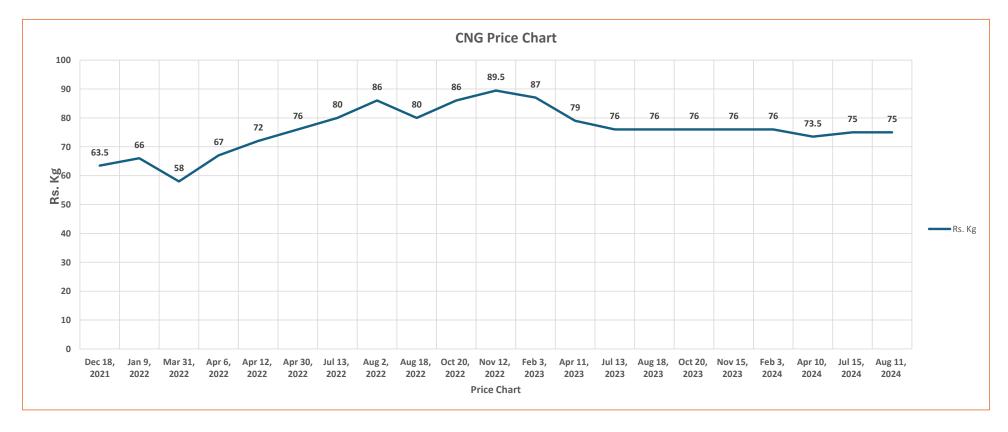
Geographical Area Allocated to CGDs



S. No	CGD Entity	Nos.	CNG stations	%
1	Consortium of AG&P LNG Marketing Pte Ltd. & Atlantic Gulf & Pacific	10	1462	18%
2	Indian Oil Corporation Limited	17	1213	15%
3	Indian Oil-Adani Gas Private Limited	19	876	11%
4	Hindustan Petroleum Corporation Limited	10	864	11%
5	Torrent Gas Private Limited	14	745	9%
6	Adani Gas Limited	17	501	6%
7	GAIL Gas Limited	14	377	5%
8	Bharat Gas Resources Limited	17	312	4%
9	Gujarat Gas Limited	24	310	4%
10	Indraprastha Gas Limited	11	306	4%
11	Think Gas	5	238	3%
12	Haryana City Gas	4	222	3%
13	Maharashtra Natural Gas Limited	4	218	3%
14	Megha Engineering & Infrastructure Limited	7	209	3%
15	AGP CGD India Private Limited	2	91	1%
16	Consortium of Assam Gas Company Limited, Oil India Limited and GAIL Gas	2	72	1%
17	Unison Enviro Private Limited	3	72	1%
18	IRM Energy Private Limited	3	35	0%
19	Rajasthan State Gas Limited	2	26	0%
20	Dholpur CGD Private Limited	1	14	0%
21	Tripura Natural Gas Company Limited	3	12	0%
22	Green Gas Limited	4	6	0%
	Total	193	8181	100%

CNG Price Chart





CNG prices have started coming down since last year; A decline of 16.0% from February 2023

Increased price differential compared to other conventional fuel options will drive Auto demand

Recent News articles



Tata Motors Doubles Down on CNG Variants as Demand Surges

New launches, price differential with petrol, increased availability of CNG stations driving demand, says auto co

Sharmistha.M New Delhi: Tata Motors, the



CNG) grows, consumers will feel more confident in own. ing CNG vehicles. The share of CNG vehicles in overall sales in the industry will

RISING SHARE CNG accounted for 13% of all passenger vehicles sold in the country in the first two months of the year, up from 3.5% in 2019. Market leader Maruti Suzuki, which offers

27th June 2023- ET

- Tata Motors expect 10-12% of its sales to come from CNG vehicles in FY24, up from 6% in FY23.
- New launches, price differential with petrol and increased availability of CNG dispensing stations driving demand.
- 5.665 CNG distribution outlets were operational in India by end of March 2023 compared to ~1,400 outlets 3-4 years back.

EXPANDING BIZ Co to widen portfolio of services to a range of clean fuels

Adani Total Gas Plans to Build Over 1,800 CNG Stations in 7-10 years

Kalpana.Pathak

Mumbai: Adani Total Gas (ATGL), a joint venture betwe-en Adani Group and French firm Total Energies, plans to build more than 1,800 CNG sta-tions in the next seven to 10 years, its CEO Suresh P Manglani said in the company's annu al report for 2022-23.

"ATGL is spreading its footprints pan-India. Added to this number are 19 GAs with our JV-Indian Oil Adani Gas (IOAGPL), we now have a presence in 124 districts."



The co has completed laying 10,888

28th June 2023- ET

RIL, Adani Total Gas Plan to Set up 10 CBG Plants Each

Cos may invest about ₹2.500 cr each for plants with 30 tonnes per annum capacity

Kalpana.Pathak

Mumbai: Mukesh Ambani's Reliance Industries (RIL) and Gautam Adani-led Adani Total Gas (ATGL) are planning to set up 10 compressed biogas (CBG) plants each, across the country, senior executives aware of the development said.

These plants will be of upto 30

Biogas Trends Five plants will be set in the next 5 yrs at strategic locations nearly 30 CBG

operation Gujarat & 5 would be country \$2 billion Compressed Bio Gas or CBG

7th July 2023- ET

- Adani Total Gas Ltd (ATGL) plans to build over 1,800 CNG stations in 7-10 years.
- Along with IOCL JV, ATGL has presence in 124 districts with 460 CNG stations, currently.
- Adani Total Energies Biomass (wholly owned subsidiary of ATGL) is currently building one of the India's largest Compressed Bio Gas (CBG) plants at Barsana in UP with 600 TPD feedstock processing capacity.
- Reliance and ATGL to set up 10 CBG plants each with an investment of USD 313 Mn each. 5 of these will come in next 5 years. Currently there are 30 CBG plants in India.
- Sector to attract over USD 2 Bn investments in next 5-7 years.

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Recent News articles



PNG SALES UP 11% DURING SAME PERIOD

CNG Sales Volume Grows 51% in 6 Months to March

Sanieev Choudhary

New Delhi: City gas companies have grown their super-profitable CNG sales volume at a faster rate in the past two years than the less profitable segment of gas supplies meant for homes

City gas distributors sold 19.4 milto March 2023, up 51% from October 2020 to March 2021 period, oil ministry data showed. In the same period, the sale of piped natural gas (PNG) meant for cooking at home rose 11% to 2.9 mmscmd

Sales to commercial customers that includes hotels and malls, dropped 25% to 0.7 mmscmd, while those to industries fell 38% to 10.3 mmscmd as to switch to alternative fuels

As a result, the share of CNG in city gas distributors' overall sales sharply increased to 58% in two ye- switch to alternative liquid fuels such ars from 39% in the six months to March 2021. The share of sales to in-30%. The share of sales to house-holds, or domestic PNG, rose margi-mmt in 2019-20. nally to 8 7% from 8%

monopolies in their licensed areas giving them pricing power and fat margins. CNG and domestic PNG prices are mainly influenced by the rates of alternative fuels such as petrol and LPG cylinders. Petrol is heavily taxed and mostly moves in line with international prices, while CNG and domestic PNG are very

lightly taxed. At March-end, the number of CNG lion metric standard cubic meters a stations in the country was 5,665, up day (mmscmd) of CNG in six months 83% in two years. Domestic PNG cus the same period. Delhi is the largest market for CNG while Gujarat is the largest market for domestic, commer-cial, and industrial customers of natural gas.

City gas distributors mostly import liquefied natural gas (LNG) to supply commercial and industhigh imported gas prices forced them rial customers. Extraordinarily high prices of natural gas in international markets in the past two years forced in

dustrial and commercial customers to as LPG and fuel oil.
India's LNG imports fell to 19.9 dustrial customers fell from 50% to million metric tonnes (mmt) in the

Expansion of CNG stations across City gas companies get price-cont-rolled domestic natural gas, which they can sell at market rates as CNG combined to boost CNG sales in the

15th August 2023- ET

RIL to Spend ₹5,000 cr to Set up over 50 Biogas Plants in 2 Years

Co which plans to set up 106 CBG plants is said to have tendered out half of them

Kalpana.Pathak

Mumbai: Reliance Industries (RIL) is planning to set up more than 50 compressed biogas (CBG) plants in the next two ve ars at a cost of over ₹5,000 crore, according to two oil and gas industry executives aware of the development.
At RIL's annual general me

ting last August, chairman Mukesh Ambani had announced plans to set up 100 CBG plants in five years. CBG is a green fuel produced from waste or bio mass sources. It has properties similar to compressed natural gas (CNG) and can be used for

said one of the executives. "The tenders have been given out for technology as well as engineering, procurement and construction." The retail to oil refining cong-

lomerate has also revised the target on the number of CBG

Each CBG plant to have a feedstock processing capacity of 5.5MT Investment Estimate Carbon emis-₹100 crore sions reduct RII's in-house team

2.5MT/year

plants to 106 from 100, this person added. RIL did not respond

and the company is

Scale & Impact

automotive, industrial and commercial uses.

"RILhas tendered out over 50 compressed biogas plants to be est up in the next two years. It will shortly be floating a tender for the remaining plans" vestment in a 10-tonne-per-day plant is around ₹100 crore. RIL's in-house team would be

sourcing the feedstock for the plants. The company has also been in discussions with multiple sugar mills for sourcing su-garcane press mud and feed-

people said. "India produces nearly 230

ting to air pollution. Within a short span of one year, we have become India's largest bioenergy producer based on our indigenously developed technology," Ambani had said at the AGM. RIL has already set uptwo CBG demounits at its refinery facility in Jamnagar and has commissioned the first commercial-scale CBG plant at Barabanki in Uttar Pradesh Through its CBG units, RIL

outlets are set up by Reliance BP Mobility a joint venture between RIL and British energy major BP Plc.
"We are adding a lot of (fuel) stock for CBG production, the

stations. CBG alone will see 200 million tonnes of non-cattle fe-ed biomass, most of it contribu-(station) additions," Harish Mehta, CEO of Reliance BP Mobility, had told ET on the sidelines of the Indian Energy Week in Goa early this month. According to Mehta, the retailed CBG will be 95% pure. a financing programme for CRG plants to facilitate the

fragmented,

aims to consume 5.5 million

tonnes of agro-residue and or-ganic waste, mitigating nearly

two million tonnes of carbon emissions, and produce 2.5 mil-lion tonnes of organic manure

annually. This would result in a

reduction of about 0.7 million

tonnes per annum of imported liquefied natural gas.

help RIL scale up the retailing of CBG and bio-CNG (purified

form of biogas) at the Jio-BP fu-

el retail outlets shortly Jio-RP

pendent and affected by seaso-

These CBG units will also

26th February 2024- ET

TO ACCELERATE EXPANSION EFFORTS

GPS Renewables Raises ₹4ll cr from Top Lenders

efforts, we not only need fi-

nancial back-

ing but also

strategic in-

dustry collabo-

current round

of funding will

allow us to ac-

celerate our ex-

pansion efforts

and promote

ition to sustai-

The

rations.

Our Bureau

Mumbai: Bengaluru-based GPS Renewables on Tuesday said it has raised \$50 million (₹411.5 crore) in debt financing from a clutch of private and public sector banks, and nonbanking financial companies including Punjab National Bank, HDFC, Yes Bank and HSBC Bank.

The funds will be used for its nationwide execution of compressed biogas (CBG) plants, said a company statement.

GPS Renewables provides end-to-end solutions for the development, production and distribution of biofuels.

It has set up more than 100 biogas plants and has an order book of \$240 million (₹2,000 crore) and memorandums of understanding worth \$540 million (₹4,500 crore)

for the execution of CBG

execution of compressed biogas plants, India's transnable green energy," said Tilak Minocha chief finance

Funds will

be used for

vestments

controller, GPS Renewables. In August 2023, GPS Renewables had acquired Germany-based Proweps Envirotech

vos-Triodos Fund and Hydera- GmbH, a design and engineebad-based Caspian Impact In- ring company specialising in technologies for utilising mu-"To further accelerate our nicipal and industrial organic waste and agri-residue for bio-

gas production.

Looking ahead, through its climate infrastructure platform, GPSR Arva, the company plans to develop own CBG projects via a joint venture with Indian Oil Corporation.

The company reported a turnover of about \$60 million (₹500 crore) for 2023-24, "registering a 225% growth over 2022-23". During this period, the company increased its fulltime employee strength to 500plus from 72, it said, adding that it continues to stay net profitable despite a steep turnover growth of more than 2.500% since 2020-21

17th April 2024- ET

- CNG vehicle sales expected to increase significantly
- Reliance Industries to set up over 50 Biogas plants in 2 years
- Compressed Biogas (CBG) has properties similar to CNG and would require cascades for transportation
- GPS renewables raises funds for setting up of CBG plants across the country

CNG Cascade Order Book



S. No.	Name of the Party	No. of Cascades	Total Value (Rs. Cr.)
1	Maharashtra Natural Gas Limited (MNGL)	121	115.00
2	Adani Total Gas Limited	40	38.00
3	Indraprastha Gas Limited (IGL)	50	29.06
4	Sabarmati Gas Limited	20	18.00
5	Bharat Petroleum Corporation Limited (BPCL)	20	18.00
6	Mahanagar Gas Limited (MGL)	9	11.00
7	GAIL Gas Limited	3	3.50
8	Indian Oil Corporation Limited (IOCL)	6	4.95
	Total Business	269	237.51



Market Potential: CNG Cascades



New CNG stations allotted in 9th and 10th round	8,181
Number of Cascades required per station	2
Total number of cascades required	16,362
Estimated cost of one cascade (Rs. per cascade)	70,00,000
Total Value of Business in next 8 years (Rs. Cr.)	11,453



9th & 10th CGD Bidding Round - A Great Success

Particulars	9 th Round	10 th Round	Total
Geographical Areas offered	86	50	136
Bids received	406 Bids from 38 Entities	225 Bids from 25 Entities	631 Bids from 41 Entities
Coverage			
State/Union Territories	22	14	23
(a) Districts	174 Districts (156 full & 18 part)	124 Districts (112 full & 12 part)	298 Districts (268 full & 30 part
(b) Area (%)	23.82	17.92	41.74
(c) Population (%)	26.38	24.23	50.61
Minimum Work Program			
PNG Domestic Connections	221 Łakir	202 Łakh	423 Lakh
CNG Stations	4,603	3,578	8,181
Steel Pipeline (Inch-KM)	1.16 Lakh	0.58 Lakh	1.74 Lakh

Source: Petroleum and Natural Gas Regulatory Board

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Type-IV CNG Composite Cylinders – Mobile Refueling Units (MRUs)



India's First Mobile Refueling CNG Unit with Type-IV Composite Cylinders

Virtual inauguration on June 8, 2021 by Mr. Dharmendra Pradhan- Union Minister for Petroleum and Natural Gas





- MRUs act as Mobile CNG Stations
- Can be parked anywhere for filling
- Fills up to 300-400 vehicles per day

Market Potential : Mobile Refueling Units (MRUs)



Total existing and committed new CNG stations in India by 2024	7,300
Conversion to MRUs (~30%)	2,200
Estimated cost of one cascade (Rs. per cascade)	60,00,000
Total Value of Business in next 4 years (Rs. Cr.)	1,320





Source: Ministry of Petroleum and Natural Gas- Emerging Opportunities in India

Market Potential: Compressed Bio-Gas (CBG)



Total CBG plants by 2023	5,000
Number of Cascades required per plant	2
Total number of cascades	10,000
Estimated cost of one cascade (Rs. per cascade)	60,00,000
Total Value of Business in next 3 years (Rs. Cr.)	6,000



Under the SATAT scheme, total 5,000 CBG plants have been envisaged by 2023, which will produce around 15 MMT of CBG per annum.

Potential in the Country

- It has been estimated that there are six major sources from which CBG can be synthesized in India — Recoverable Cattle Dung, Bagasse, Agri residue, Sewage Treatment Plant, Municipal Solid Waste and Spent Wash/Press Mud.
- The total CRG notential in India has

Benefit to the Country

- As per international carbon accounting standards, CBG has 'zero' associated Carbon emissions.
- Reduction in emissions due to crop burning.
- Reduction in landfill emissions due to municipal and sewage waste.

Source: Ministry of Petroleum and Natural Gas- Emerging Opportunities in India

Market Potential: Gas Generators for Telecom Towers



Towers- 20% of existing Telecom Towers use gas generators(~1.8 lakhs towers)	32,000
MRUs required (1 MRU for every 4 towers)	8,000
Estimated cost of one cascade (Rs. per cascade)	60,00,000
Total Value of Business in next 4 years (Rs. Cr.)	4,800





Opportunity in India

- Addressable market for conversion to gas generators is estimated to be ~1.8 lakh towers.
- The market is expected to grow at a CAGR of 3 percent over the next 4-5 years.
- Assuming 20 percent of existing and upcoming telecom towers use gas generator as back-up fuel, the total realizable potential is estimated to be around 32,070 towers.

Cost Benefit Analysis

- The cost of retrofitting a 25KVADG set is ~INR 3 lakhs, while the cost of a new 25KVAGas based generator set is ~INR 5 lakhs*.
- The cost of retrofitting a 125KVA DG set is ~INR 6 lakhs, while the cost of a new 125KVA Gas based generator set is ~INR 13 lakhs*,
- For an average outage of 4 hours per day, annual consumption of 5,760 litre of diesel may be replaced by Natural Gas.
- Total annual diesel savings for 32,070 towers is estimated to be 184.7 million litre (0.18 percent of India's diesel consumption).

Source: Ministry of Petroleum and Natural Gas- Emerging Opportunities in India

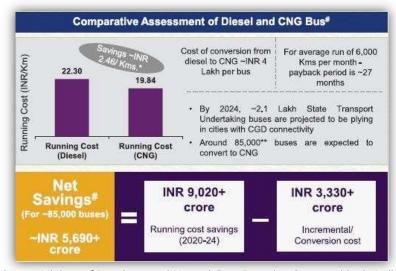


Market Potential: Onboard Applications – Intracity Bus



No. of buses on road by 2024	2,10,000
Buses converted to CNG (~40% conversion)	85,000
No. of cylinders per Bus	8
Total No. of Cylinders required	6,80,000
Estimated Cost of 156 litre cylinder (Rs. per cylinder)	78,000
Total Estimated value of Business in next 4 years (Rs. Cr.)	5,304





Source: Ministry of Petroleum and Natural Gas- Emerging Opportunities in India

Focus on Buses; to be followed by commercial vehicles (new & conversion) and passenger vehicles.

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Value Added Products Recent Developments



Type-III Composite Cylinder for Breathing Air / Medical OXYGEN

- Successfully developed Fully Wrapped Carbon Fibre Reinforced (Type-III) Composite Cylinder for Breathing Air/ Medical Oxygen; 1st locally manufactured cylinder to get approval from PESO in India.
- · Application as Self-Contained Breathing Apparatus (SCBA) by
 - o Fire Fighters,
 - o Divers (SCUBA)
 - Mountain climbers at high altitudes

- o Hospitals
- Portable home oxygen bottles
- Emergency use in ambulances

Numerous advantages over Type-I metal cylinders



Explosion Proof



60% lighter in weight than Type-I metal cylinders



No Rusting and No Corrosion



Long service life



Type-III Composite Cylinders form a part of High-Tech Composite Products and are classified under Value-added products.

Value Added Products Recent Developments



Composite Air Tank for Heavy Vehicles





- The air compressor draws filtered air from the atmosphere and compresses it, storing the compressed air in high-pressure reservoirs.
- Currently these reservoirs are made-up of steel which are very heavy & prone to corrosion due to presence of moisture in the air.
- Time Technoplast Limited, first time in the world has developed these Type-4 Composite tanks which are 54 % lighter than steel tanks, has long life, no corrosion & can sustain large pressures.

Specification

• Capacity: 30L

Material: Liner-HDPE

Composite-Glass fibre + Epoxy resin

• Weight: 5.6 kg

• Weight of metal air tank: 12 kg

Weight saving- 54%

Customer name- TATA MOTORS

Vehicle name-Tata Ultra 9/9m EV & Tata Ultra 9/12m EV



Commercial supply started to TATA Motors.

Products Recent Developments



WIPRO Hydraulic Tank- 120 Litre







- All the tippers with back body tilting arrangement uses hydraulic systems for tilting operation.
- Currently Wipro is supplier of this hydraulic system with metal hydraulic oil tank to the Automotive OEM's.
- 1st time in India, Time Technoplast Limited has developed this polymer hydraulic oil tank for Wipro.
- Advantages-
 - 75 % lighter than the metal tank of same capacity.
 - No contamination of the oil due to tank corrosion.

Specification

• Capacity: 120L

• Material: HDPE

• Weight: 7.5 kg

• Weight of metal tank: 30.5 kg

Weight saving-75%

• Vehicle name-Tata Signa 3523 Tipper

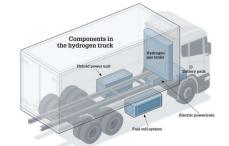
• Customer: Wipro

Supply location: Bangalore

Value Added Products Under Development



Hydrogen Cylinder for Fuel Cells



- Type-IV Carbon wrapped cylinders
- Light weight (90% weight reduction) - provides better fuel economy and better payload
- Reliable and safe
- Applications Hydrogen Cars, power generation (Towers)

Composite Fire Extinguisher



- Made with HDPE inner liner
- Light Weight, Carbon Neutral and 100% recyclable
- Higher Strength with winding
- Maintenance Free & Corrosion Free
- Long shelf life

Composite Fire Extinguisher In Railways



भारत सरकार Government of India रेल मंत्रालय Ministry of Railways रेलवे बोर्ड Railway Board

(E-File No.-3322416)

No. 76/M(C)/137/31 Vol. V

New Delhi, Dated-22.06.2021

PCMEs All Zonal Railways

& ICF, MCF and RCF

Sub: Use of Fire extinguishers having Composite cylinder.

IR has witnessed many serious fire incidences in past in field units like workshops, Diesel loco sheds, Electric loco sheds, rolling stock maintenance depots and at stations. Provisions of stipulated Nos. of conventional DCP type Fire extinguishers are normally available. However, many a times these malfunction during emergency.

This happens due to various limitations due to its heavy weight, corrosion proneness and other factors. In this regard it is essential to leverage the latest technology available to achieve effective operation of fire extinguishers during any fire incident.

It is understood that many government organizations (ICF, Central Railways, CISF and MoPNG) including some Railway field units have already taken initiatives to leverage the latest technology available to as per latest BIS 15683:2018.

In this context, it is advised that the procurement of Fire extinguishers, to be installed at Rolling stock field units e.g. PUs, workshops, coaching depots, EMUs/MEMU maintenance depots, freight depots etc. may be done with Fire extinguisher having composite cylinder, of same fire rating as per latest BIS 15683:2018 and as per specific service pressure requirement for the use.

Further all rolling stock field units may get fire safety audit conducted by an independent third party and accordingly the identified gaps may be plugged in a time bound manner.

The above has approval of AM/ME.

SUMAN KUMAR TANTI

Print Agricultural School College (School School Sc

(Suman Kumar Tanti) Dir. Mech. Engg./ Chg. Railway Board

C/- ED/Carriage / RDSO/Lucknow – For kind information and necessary action please.

Way Forward





IBCs growing faster

Time Technoplast is the largest and major player in most countries it operates in



Polymer and Composite products to gain share from metals



Recycling efforts to encourage sustainability

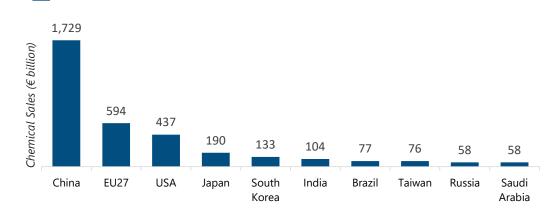


Chemical production shifting from China to other Asian countries

Global Chemical Industry

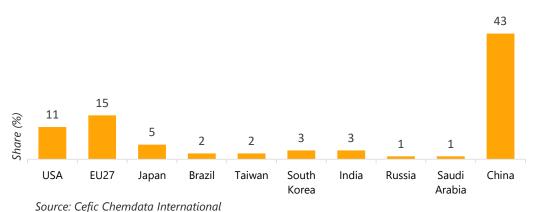


2021 Chemical Sales By Country: Top 10



For the year 2021, World chemical sales (excluding pharmaceuticals) stood at €4,026 Bn.

2021 Chemical Share (%) By Country: Top 10



China dominates the world chemical market while India holds its position as 6th largest.

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ESG & CSR



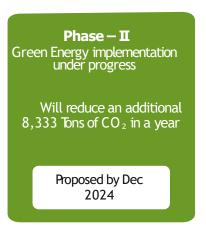


Energy Savings Initiative

Making our contribution towards efforts in arresting "Climate Change"

- Took initiative to convert part of our Energy consumption to clean energy
- 10 % of our total consumption converted to green energy and by FY 25, this would increase to 32 %.









The above action will improve Carbon dioxide balance by more than 35,000 Tons.





Step Towards Green (Solar) Energy



Total Electricity Units Consumed Per Year 12 Crore Units p.a. Phase-I Green Energy (Solar) Completed and Implemented Karnataka 1.2 Crore Units p.a. Savings Per Unit (Rs. 2.50 per unit) (1.2 Cr x 2.50) Rs 3.00 crores Phase- II PPA Signed/Finalized for Solar Energy Tamil Nadu Maharashtra Will be implemented by the end of FY25 2.5 Crore Units p.a. Gujarat Savings Per Unit (Rs. 2.50 per unit) (2.5 Cr x 2.50) Rs. 6.25 Crores **Total Savings** Units 3.7 Crore Units p.a. **Annual Savings** (Units)- {3.7 Cr/12 Cr x 100} 31% Cost Savings (Payback Period is Less than 1 Year) Rs. 9.25 Crores

Total Investment In Equity Form

Rs. 6.50 Crores

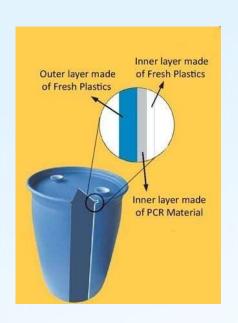
Firms Involved: (1) FPEL Phoenix Pvt. Ltd. (2) Neo Green Power Energy Pvt. Ltd.

(3) Enerparc Solar Power Pvt. Ltd. (4) Radiance Renewables Pvt. Ltd.

Towards a SUSTAINABLE future with Technology and Transformation



Continuous Innovation to create a POSITIVE Environmental Impact Focus on reduction of waste from packaging products by RECYCLE and REUSE



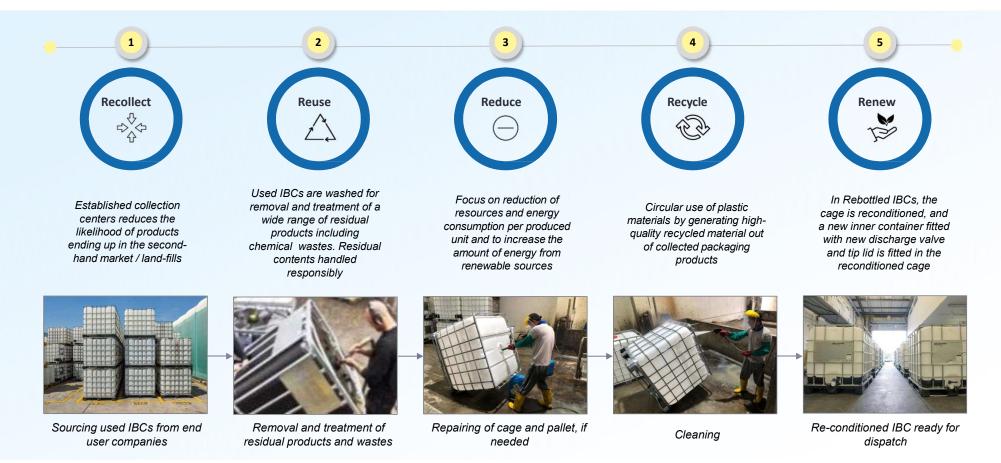
Introduction of Multi-Layer Technology for Industrial Packaging products (Drums, Jerry cans and IBCs) for use of Post Consumer Recycled (PCR) material in the middle layer of the product.

Use of PCR material to manufacture Intermediate Bulk Container (IBC) Components like seal cap, security flap, corner protector, pallet etc.



REBOTTLE & REUSE of IBC with collection system





Continuous measures and innovation in place to optimize the use of water, fossil fuels and raw materials across processes

...with efforts towards sustainable development



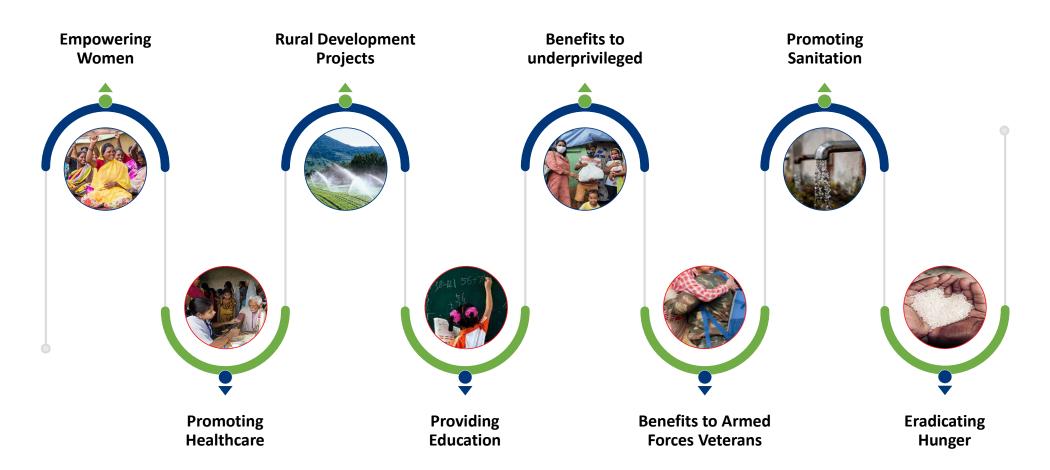
10% Reduction in Carbon Footprint from FY23



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...with contribution for better society and a better tomorrow







Appendix



Key Highlights





₹ 1,378 Mn

Cash Generated from Operating Activities – H1FY25



₹ 518 Mn

Total debt reduced by – H1FY25



₹ 940 Mn

Total CAPEX - H1FY25



34%

Composite Cylinders growth (CNG) – H1FY25



65:35

Share of Business (India v/s Overseas) – H1FY25



₹ 1,750 Mn

Strong order book- PE Pipes



₹ 1,850 Mn

Strong order book- Composite Cylinders (CNG Cascades)



17.0%

Return on Capital Employed – H1FY25. FY24 – 16.4%



14.6%

Dividend Payout ratio – FY24 Consistent in paying dividend

Product Segment Wise Value and Volume Numbers H1 FY25



		Value		Volume			
Particulars	H1FY25	H1FY24	YoY Growth	Unit	H1FY25	H1FY24	YoY Growth
	(₹ Mn)	(₹ Mn)	%				%
TURNOVER		'				'	
Established Products							
Packaging (Excl. IBC Business), Lifestyle , Auto , Batteries Business etc.	17,709	15,816	12.0%	M.T.	145,988	127,658	14.4%
PE Pipes	1,356	1,133	19.7%	M.T.	11,830	9,678	22.2%
Sub - Total	19,065	16,949	12.5%		157,818	137,336	14.9%
VALUE ADDED PRODUCTS							
IBC (Including Inner Containers)	3,234	2,730	18.5%	Nos.	404,025	331,745	21.8%
Composite Products							
- LPG Cylinders	1,039	929	11.8%	Nos.	503,175	468,315	7.4%
- CNG Cascades	1,742	1,297	34.3%	Nos.	230	172	33.7%
MOX Film	942	842	11.8%	M.T.	3,927	3,502	12.2%
Sub - Total	6,957	5,799	20.0%				21.0%
Total	26,022	22,748	14.4%				16.1%

Consolidated Income Statement



Particulars (₹ Mn)	Q2FY25	Q2FY24	Y-o-Y	H1FY25	H1FY24	Y-o-Y
Total Income	13,715	11,945	15%	26,022	22,748	14%
Total Expenses	11,744	10,274		22,299	19,595	
EBITDA	1,971	1,671	18%	3,722	3,153	18%
EBITDA Margin (%)	14.4%	14.0%		14.3%	13.9%	
Finance Cost (Net)	228	255		470	519	
Depreciation	418	457		827	913	
PBT	1,326	959	38%	2,426	1,721	41%
Tax	328	244		623	436	
PAT before Minority Interest	998	715		1,803	1,285	
Minority Interest	14	11		26	20	
PAT after Minority Interest	984	704	40%	1,777	1,265	40%
PAT Margins (%)	7.2%	5.9%		6.8%	5.6%	
EPS (₹)	4.3	3.1		7.8	5.6	

Consolidated Balance Sheet



Particulars (₹ Mn)	H1FY25	FY24	Particulars (₹ Mn)	H1FY25	FY24
Equity & Liabilities			ASSETS		
Shareholder's Funds			Non-Current Assets		
Share Capital	227	227	Fixed Assets		
Other Equity	26,597	25,301	Property, Plant & Equipment	12,873	12,867
Total Shareholder's Fund	26,824	25,528			
Minority Interest	661	635	Capital Work-in-Progress	578	412
Non-Current Liabilities			Right-to-Use Assets	909	815
Long-Term Borrowings	2,155	1,654	Intangible Assets	0.4	1
Lease Liabilities	842	739	Others Financial Assets/Long Term Loans & Advances	411	400
Deferred Tax Liabilities (Net)	1,224	1,127	Total Non-Current Assets	14,771	14,495
Total Non-Current Liabilities	4,221	3,520	3,520 Current Assets		
Current Liabilities			Inventories	10,829	10,503
Short-Term Borrowings	4,773	5,792	Trade Receivables		·
Trade Payables	4,713	4,439		11,262	10,821
Other Financial Liabilities	128	115	Cash and Cash Equivalents & Bank Balance	1,711	1,535
Other Current Liabilities	463	457	Other Current Assets	3,144	2,883
Short-Term Provisions	173	167	Total Current Assets	26,946	25,742
Current Tax Liabilities	363	487	Assets Classified As Held For Sale*	602	903
Total Current Liabilities	10,613	11,457			303
TOTAL - EQUITY AND LIABILITIES	42,319	41,140	TOTAL - ASSETS	42,319	41,140

^{*}In accordance with Ind AS 105 for Non-current Assets Held for Sale and Discontinued Operations, the management has identified a classified certain assets as held for sale

Consolidated Cashflow

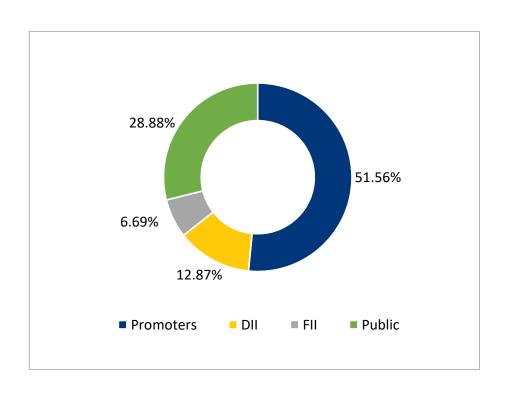


Particulars (₹ Mn)	H1FY25	FY24
Net cash flow from operating activities	1,874	4,062
Profit before tax & extraordinary items	2,426	4,310
Depreciation	827	1,726
Interest	470	1,014
Others	9	(83)
Working Capital Changes	(1,342)	(1,984)
Tax Payment	(516)	(920)
Net cash used in Investing Activities	(714)	(1,870)
Purchase of fixed assets	(941)	(1,808)
Others	227	(62)
Net cash used in financing activities	(1,064)	(1,973)
Net proceeds from borrowings	(518)	(656)
Increase in Share Capital Including Premium	-	97
Repayment of lease liability	(60)	(105)
Dividend paid & tax on dividend	(16)	(295)
Interest paid	(470)	(1,014)
Net increase/(decrease) in cash & cash equivalents	96	219
Cash & cash equivalents as at (opening balance)	912	693
Cash & cash equivalents as at (closing balance)	1008	912

Shareholding Pattern



Shareholding Pattern (As of 30th September 2024)



Shareholders	%			
Domestic Institutional Investors	12.87			
- Tata Mutual Fund - Tata Small Cap Fund				
- HDFC Trustee Company Ltd. A/c HDFC Balanced Advantage Fund				
- HSBC Small Cap Fund				
- 3p India Equity Fund 1-AIF				
Foreign Institutional Investors 6.69				
- Foreign Portfolio Investors Category I & II				

CNG Cascade Customers



S. No.	Customer name
1	ADANI TOTAL GAS LTD
2	MAHANAGAR GAS LTD
3	BHARAT PETROLEUM CORPORATION LIMITED
4	HINDUSTAN PETROLEUM CORPORATION LTD
5	INDIAN OIL CORPORATION LTD
6	MAHARASHTRA NATURAL GAS LTD
7	INDRAPRASTHA GAS LTD
8	GAIL GAS LTD
9	MEGHA ENGINEERING & INFRASTRUCTURE
10	ASHOKA BUILDCON LIMITED
11	SPECTRUM RENEWABLE ENERGY PVT LTD.
12	UNISON ENVIRO PRIVATE LIMITED
13	BHARAT GAS RESOURCES LIMITED
14	HP OIL GAS PRIVATE LIMITED
15	BEERENSGAS (INDIA) PRIVATE LTD
16	SKN-HARYANA CITY GAS DISTRIBUTION
17	BENGAL GAS COMPANY LIMITED
18	AG & P CGD INDIA PVT LTD
19	SABARMATI GAS LIMITED
20	PROXY GAS DJIBOUTI S.A.R.L
21	VILLA HAKATHA PVT. LTD.
22	BORG VENTURES FZE

Good customer profile over a short period of time; Continuous addition of new customers every year







Commercial Benefits – Type I vs Type IV



Sr. No	Parameter	Steel Cylinder Type I Cascade	Composite Cylinder Type IV Cascade	Remarks
1	Size	75 Litre	156 Litre	
2	Number of Cylinders/Cascade	60 Nos	60 Nos	
3	Total CNG Carrying Capacity (Water Litre Capacity)	4,500 WLC	9,360 WLC	
4	Indicative Cost of Cascade (Rs)	23.00 Lakhs	82.00 lakhs	
5	Cost of Vehicle (Rs)	20.00 Lakhs	20.00 Lakhs	
6	Capex per Cascade with vehicle (Rs)	43.00 Lakhs	102.00 Lakhs	
7	Capex required for carrying 9000 WLC CNG (including vehicle)	43.00 X 2 = 86.00 Lakhs	102.00 Lakhs	Additional Capex 16.00 Lakhs





Commercial Benefits – Type I vs Type IV



Sr. No	Parameter	Steel Cylinder Type I Cascade	Composite Cylinder Type IV Cascade	Remarks
1	Distance Assumed	100 kms	100 kms	
2	Running Cost (Rs/km)	32	30	Type I Cascade Wt: 9702 X 2 = 19404 kg Type IV Cascade Wt: 5820 kg
3	Cost of Running 100 kms (Rs)	3200 X 2 = 6,400	3,000	
4	Running cost (Rs/Litre/100 km)	0.71 per Litre per 100 km	0.32	
5	Total CNG carried per trip (Litres)	9000	9360	
6	Number of Trips per month (per fill station)	52	52	
7	Cost required for transporting 9000 WLC CNG (Rs)	6,400	2,884	55% Savings of Rs 3,516 per 9000 Ltrs
8	Saving per 9000 WLC CNG transportation (Rs)		3,516	
9	Monthly transportation Cost 52 trips (Rs)	3.32 Lakhs	1.50 Lakhs	
10	Monthly savings per 9000 Ltrs (Rs)		1.82 Lakhs	7





Commercial Benefits – Type I vs Type IV



Sr. No	Parameter	Payback period and Savings over 20 years	
1	Additional Capex for 9000 Litre CNG transport (Rs)	16.00 Lakhs	
2	Savings per month in 52 trips (Rs)	1.82 Lakhs	
3	Payback period (for Rs 9.00 lakhs extra Capex)	Less than 9 months	
4	Total Savings over a 20 year period (Rs)	437.00 Lakhs	

^{*} Additional Savings on Recertification charges





Except for the historical information contained herein, statements in this presentation and the subsequent discussions, which include words or phrases such as "will", "aim", "will likely result", "would", "believe", "may", "expect", "will continue", "anticipate", "estimate", "intend", "plan", "contemplate", seek to", "future", "objective", "goal", "likely", "project", "should", "potential", "will pursue", and similar expressions of such expressions may constitute "forward-looking statements", These forward looking statements involve a number of risks, uncertainties and other factors that could cause actual results to differ materially from those suggested by the forward-looking statements. These risks and uncertainties include, but are not limited to our ability to successfully implement our strategy, our growth and expansion plans, obtain regulatory approvals, our provisioning policies, technological changes, investment and business income, cash flow projections, our exposure to market risks as well as other risks. The Company does not undertake any obligation to update forward-looking statements to reflect events or circumstances after the date thereof.

