



2018 Shell India Press Releases

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1. SHELL SEES POTENTIAL LNG SUPPLY SHORTAGE AS GLOBAL DEMAND SURGES

Feb 26, 2018

The global liquefied natural gas (LNG) market has continued to defy expectations of many market observers, with demand growing by 29 million tonnes to 293 million tonnes in 2017, according to Shell's annual LNG Outlook. Such strong growth in demand is consistent with Shell's first LNG Outlook, published in 2017. Based on current demand projections, Shell sees potential for a supply shortage developing in mid-2020's, unless new LNG production project commitments are made soon.

The global liquefied natural gas (LNG) market has continued to defy expectations of many market observers, with demand growing by 29 million tonnes to 293 million tonnes in 2017, according to Shell's annual LNG Outlook. Such strong growth in demand is consistent with Shell's first LNG Outlook, published in 2017. Based on current demand projections, Shell sees potential for a supply shortage developing in mid-2020's, unless new LNG production project commitments are made soon.

Japan remained the world's largest LNG importer in 2017, while China moved into second place as Chinese imports surged past South Korea's. Total demand for LNG in China reached 38 million tonnes, a result of continued economic growth and policies to reduce local air pollution through coal-to-gas switching.

"We are still seeing significant demand from traditional importers in Asia and Europe, but we are also seeing LNG provide flexible, reliable and cleaner energy supply for other countries around the world," said Maarten Wetselaar, Integrated Gas and New Energies Director at Shell. "In Asia alone, demand rose by 17 million tonnes. That's nearly as much as Indonesia, the world's fifth-largest LNG exporter, produced in 2017."

LNG has played an increasing role in the global energy system over the last few decades. Since 2000, the number of countries importing LNG has quadrupled and the number of countries supplying it has almost doubled. LNG trade increased from 100 million tonnes in 2000 to nearly 300 million tonnes in 2017. That's enough gas to generate power for around 575 million homes.

LNG buyers continued to sign shorter and smaller contracts. In 2017, the number of LNG spot cargoes sold reached 1,100 for the first time, equivalent to three cargoes delivered every day. This growth mostly came from new supply from Australia and the USA.

The mismatch in requirements between buyers and suppliers is growing. Most suppliers still seek long-term LNG sales to secure financing. But LNG buyers increasingly want shorter, smaller and more flexible contracts so they can better compete in their own downstream power and gas markets.

This mismatch needs to be resolved to enable LNG project developers to make final investment decisions that are needed to ensure there is enough future supply of this cleaner-burning fuel for the world economy.

See Shell's full LNG Outlook for 2018 at www.shell.com/lngoutlook

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2. INDIAN STUDENTS TO COMPETE IN SINGAPORE AS SHELL'S MAKE THE FUTURE FESTIVAL RETURNS FOR A SECOND YEAR

Feb 28, 2018

- Make the Future Singapore returns for a second year, showcasing bright ideas and innovations that address the global energy challenge as part of a four-day public festival
- 10 futuristic cars from India will challenge their peers on the track with their own energy-efficient designs at the 2018 edition of the Shell Eco-marathon
- Over 120 student teams from Asia Pacific and the Middle East competing in the Asian leg of this worldwide programme

New Delhi: Our planet is looming under the dreadful consequences of climate change and pollution levels across the world, are soaring higher than ever. Asian countries like India and China have captured global attention and are at the centre of global discourse on saving the environment. However, all is not lost - thanks to the youth and millennials from these countries, who are rising to the challenge and devoting themselves to finding “smart” and innovative solutions to build a sustainable future.

One of the world’s longest-running student competitions, the **Shell Eco-marathon Asia** is a global programme that challenges bright young minds to design and build ultra-energy-efficient cars, thereby fostering innovative solutions to transform transportation. To be held in Singapore from March 8 to 11, the competition will witness participation from over 120 student teams from 18 countries across Asia Pacific and the Middle East; putting their self-built energy-efficient cars to the test.

Representing India, will be a contingent of 10 futuristic cars from 10 universities competing to be the most energy-efficient amongst all. This is the 8th year in a row that India is participating in the Asian leg of the Shell Eco-marathon. Prestigious institutes such as: Delhi Technical University, Indian Institute of Technology, Sir M Visvesvaraya Institute of Technology, Bangalore, SRM University, Vellore Institute of Technology (VIT) University and, Birla Institute of Technology and Science Pilani; will participate and demonstrate their vision for fuel-efficient technologies. These bright young minds will be showcasing prototypes ranging from engines with a mileage of 350 km/hr, to going up to 150 kms, i.e, from Mumbai to Pune, in a single battery charge!

With the global focus on electric mobility and emissions control through fuel efficiency and usage of ethanol in automobiles, the Indian teams have also developed concept cars under various categories such as gasoline, battery electric and ethanol. The teams will be competing against each other as well as against their peers from other countries.

Since 2017, the Shell Eco-marathon has been a part of the **Make the Future Singapore**, a free festival of bright energy ideas and innovations for Asia, will take place at the Changi Exhibition Centre. Returning to Singapore for a second year, the public festival will be a platform for conversation, collaboration and innovation around the global energy challenge: how to generate more energy, while producing less CO₂ emissions. At Make the Future Singapore, virtual reality and hands-on experiences will take visitors on a journey to explore bright ideas from around Asia, see what is happening now to power our world and get a glimpse of what the future of energy might look like. They will be able to discover what it's like to generate electrical energy by dancing, play interactive games, build and race mini saltwater cars, and meet young scientists and energy start-ups.

Shell Eco-marathon Asia will include two key competitions this year. The longest running competition is the Mileage Challenge where teams compete to travel the farthest on the least amount of fuel. In 2017, the winning team of the Asian leg was efficient enough to travel 2,289 kilometres – the distance from Singapore to Chiang Mai, Thailand – on just one litre of fuel! The

second Shell Eco-marathon competition to take place this year in Singapore is **Drivers' World Championship Asia**. Introduced to the Shell Eco-marathon programme in 2016, Drivers' World Championship challenges the best UrbanConcept teams to combine the proven energy efficiency of their car with the speed and skill of their driver, in a race to see who can cross the finish line first on the least amount of fuel.

Make the Future Singapore 2018 is held with support from the Singapore Tourism Board, Ministry of Education, Science Centre Singapore, Innosparks, Strides Transportation and Borneo Motors.

For more information on Make the Future Singapore and to register for free priority tickets, please visit [Make the Future Singapore](#).

Notes to editors:

To access previous event images, visit [Ecomarathon Albums](#)

Participating teams as of February 8, 2018

Country	Number of teams
Australia	2
Brunei Darussalam	3
China	4
Egypt	7
India	10
Indonesia	26
Japan	1
Kazakhstan	2
Malaysia	7
New Zealand	1
Oman	2
Pakistan	10
Philippines	17
Saudi Arabia	2
Singapore	10
South Korea	2
Thailand	13
Vietnam	7
Total	126

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3. DELHI TECHNOLOGICAL UNIVERSITY WINS THE COMMUNICATIONS AWARD AT SHELL MAKE THE FUTURE, SINGAPORE

Mar 20, 2018

Team Averera of IIT-BHUs recognised for Travel Safety.



Team DTU Supermileage celebrates as they win the Communications Award

New Delhi: Shell Companies in India is proud to announce that Delhi Technological University (DTU) Supermileage team won the **Off-Track Communications Award 2018** at the just concluded Shell Eco Marathon 2018 in Singapore. A part of the four-day **Shell Make the Future** annual event that showcases energy innovations for better living for Asia, **Shell Eco-marathon Asia 2018** is a competition that challenges student teams to design, build, test and drive ultra-energy-efficient vehicles.

Speaking on the occasion, Mr Nitin Prasad, Chairman, Shell Companies in India said, “We are proud of the nine student teams from India who represented the country at Shell Eco Marathon 2018. DTU Supermileage have done a commendable job of creating awareness and engaging a diverse set of audiences around the need for cleaner and fuel- efficient mobility solutions. I hope talented minds such as these will make India a destination for innovations in, efficient and sustainable transportation solutions.”

Team Supermileage from DTU created an infectious energy around the competition through their personalised and integrated communications reaching the student community, opinion leaders, neighbouring communities across India. They brought to life the story of the team and their efforts to create the car they raced across online and offline channels. They took it a step further by going into neighbouring communities to drive home the Eco-marathon and fuel efficiency story through games and competitions.

The winners of the Shell Eco-marathon 'urban concept' go on to participate in the Driver's World Championship. This year three teams - SEMAR URBAN UGM INDONESIA from Universitas Gadjah Mada, ITS Team 2 from Institut Teknologi Sepuluh Nopember and GARUDA UNY ECO TEAM from Universitas Negeri Yogyakarta will be participating at the global DWC event to be held in London later this year.

Speaking about the Drivers' World Championship Mr Norman Koch, General Manager, Shell Eco-Marathon, said, "The Drivers' World Championship demands the best in automotive technology and innovation to push the boundaries of energy efficiency. Sharp skills and a sound strategy in handling the vehicle and managing fuel efficiency are imperative in helping the team cross the finish line first. We saw amazing action and excitement today and my accolades goes to all the teams."

Notes to Editors:

To access event images, please visit the following

URL: https://www.flickr.com/photos/shell_eco-marathon/.

2018 Shell Eco-marathon Asia Results

Prototype

Category	Winner	Result
Internal Combustion Engine	Panjavidhya1 Panjavidhya Technological College (Thailand)	2,341.1 km/l
Battery Electric	Huaqi-EV Guangzhou College of South China University of Technology (China)	511.0 km/kWh
Hydrogen Fuel Cell	TP ECO FLASH Temasek Polytechnic (Singapore)	404.3 km/m ³

UrbanConcept

Category	Winner	Result
Internal Combustion Engine	ITS Team 2 Institut Teknologi Sepuluh Nopember (Indonesia)	314.5 km/l
Battery Electric	LH – EST Lac Hong University (Vietnam)	129.3 km/kWh
Hydrogen Fuel Cell	NTU Singapore 3D-Printed Car Nanyang Technological University (Singapore)	46.0 km/m ³

Drivers' World Championship Asia

Podium Finish	Team	Country
1 st	SEMAR URBAN UGM INDONESIA Universitas Gadjah Mada	Indonesia
2 nd	ITS Team 2 Institut Teknologi Sepuluh Nopember	Indonesia
3 rd	GARUDA UNY ECO TEAM Universitas Negeri Yogyakarta	Indonesia

2018 Shell Eco-marathon Asia Off-track Awards

About Make the Future Singapore

Shell's Make the Future Singapore, featuring Shell Eco-marathon Asia, returned to Singapore for a second year from March 8-11, 2018. As a festival of ideas and innovation for Asia, this event has the widest geographical reach, accounting for more than 60% of the world's population. Headlining the event was the Shell Eco-marathon Asia, where futuristic and fuel-efficient cars built by over 120 student teams from the Asia Pacific and the Middle East region competed to be the most energy-efficient.

Make the Future Festivals is Shell's global platform for conversation, collaboration and innovation around the world's energy challenges. With events hosted in countries around the globe, they aim to provide an opportunity for multiple stakeholders: including students, entrepreneurs, businesses, governments and the public, to experience, test and contribute bright energy ideas.

About Shell Eco-marathon

One of the world's longest-running student competitions, Shell Eco-marathon is a global programme that challenges bright student minds to design and build ultra-energy-efficient cars, and then put them to the test in competition.

Shell Eco-marathon Asia includes two key competitions. The longest running competition is the Mileage Challenge where teams compete to travel the farthest on the least amount of fuel. In 2017, the winning team of the Asian leg was efficient enough to travel 2,289 kilometres – the distance from Singapore to Chiang Mai, Thailand – on just one litre of fuel!

The second Shell Eco-marathon competition in Singapore is Drivers' World Championship Asia. Introduced to the Shell Eco-marathon programme in 2016, Drivers' World Championship challenges the best UrbanConcept teams to combine the proven energy efficiency of their car with the speed and skill of their driver, in a race to see who can cross the finish line first on the least amount of fuel.

Shell Eco-marathon is a visible demonstration of Shell's commitment to help the world meet its growing energy needs in a responsible way by working together with students, partners and other stakeholders.

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4. SHELL E4 WELCOMES ITS FIRST COHORT OF 5 START-UPS DESIGNING SOLUTIONS TO POWER A SUSTAINABLE INDIA

Mar 26, 2018

Bangalore: Shell E⁴ (Energizing and Enabling Energy Entrepreneurs) accelerator programme has selected five innovative start-ups amongst hundreds of applicants as its first cohort in India.



(From L to R) Daniel David, Co-founder, Detect Technologies, Prerak Ujgare, Co-founder & COO, IoTrek, Hari Krishnan, Co-founder, Detect Technologies, Nivedha RM, Founder & CEO, Trashcon, and Suruchi Rao, Co-founder, Ossus Bio

Launched in September 2017, Shell E⁴ aims to co-create solutions that have the potential to accelerate energy transition and build a more sustainable India and world. The five selected start-ups include Detect Technologies, ION Energy, IoTrek, Trashcon and Ossus Biorenewables. The teams are working on a diverse range of solutions including real-time pipeline monitoring, creating safer and smarter infrastructure and outdoor work sites, automating segregation of municipal solid waste, recovering green chemicals from waste water and building energy storage systems and infrastructure for electric vehicles.

Welcoming the first set of innovators, **Mr. Nitin Prasad, Chairman, Shell Companies in India** said, “We are excited about working with our first cohort on solutions that balance individual needs of energy, food and water with societal demands for clean air, waste management, mobility, safety and others. Shell E⁴ furthers our commitment to nurture the innovation and entrepreneurial ecosystem in the country. We will continue to evolve the programme to support solutions that can help India access more and cleaner energy and drive sustainable growth.”

Located at Shell Technology Centre Bangalore, one of the company’s three global innovation hubs, Shell E⁴ will house the teams at a vibrant co-working space for six months. It offers each start-up a seed funding of US \$20,000 and access to:

- State-of-the-art testing and prototyping laboratories for product development and testing
- Bootcamps aimed at customer discovery and improving the product
- Top industry mentors and experts
- New markets and interactions with investors and other growth and funding opportunities

In addition, the teams can tap into Shell's large global partner network at multiple industry events and engagements that have been planned as part of the curriculum. At the end of the six-month programme they will have the opportunity to pitch to top investors from India and outside. They will also meet with an array of decision makers on a Demo Day specially designed for the occasion in the latter part of the year. After the cohort graduates, they will continue their relationship with the programme through the Shell E⁴ alumni network.

Applications for Shell E⁴ second cohort are now open for entrepreneurs, startups with innovative business models, technology ideas and products to create a tangible difference in the cleaner energy space. The startup should be in early, pilot, or post-pilot stages. The deadline for sending applications is 31st March 2018. For more details visit www.shell.in/ShellE4

Shell E⁴ First Cohort: A snapshot

1. Detect Technologies

This Chennai-based startup focuses on asset integrity management, especially in the conventional oil and gas industry, and has already built a unique, patented technology for pipeline condition monitoring in real-time, using a long-range ultrasonic sensor for temperatures of up to 350 degrees Celsius. This solution will help reduce massive productivity losses in case of a breach. Along with this, the company also provides Noctuan intelligent solution for structural health monitoring on hard-to-reach assets such as stacks, columns, pipe racks, vessels, tanks, boilers, chimneys etc. and has several Fortune 500 companies as their clients.

Founders Daniel Raj David, Tarun Kumar Mishra, Harikrishnan AS, Karthik R, are all IIT Madras alumni who, along with their Professor Krishnan Balasubramanian, bring a wealth of experience in research, management and execution for the company.

2. ION Energy

ION Energy is building cutting-edge energy storage systems and infrastructure for the adoption of high performance electric vehicles. With offices in India, USA and now France, ION leverages deep proprietary technology that merges their strengths in design, electro mechanics, battery management systems and software. Apart from deploying their own systems and infrastructure, ION will license a chemistry-agnostic and extensively cascable architecture that enables rapid product development for customers that demand high quality battery systems.

3. IoTrek

IoTrek is developing technology solutions to make infrastructure and outdoor work-sites safe and smart, by using intelligent sensors, low power wireless networks and machine learning software.

Founded by IIT-Roorkee alumni Piyush Vishwakarma (CEO), Kamran Alam (CTO) and Prerak Ujgare (COO), IoTrek is building solutions such as a "connected workforce" for the construction industry. The startup is working closely with some large construction companies in the US and India to improve the safety as well as productivity of field sites. IoTrek has come up with ultra-low power tracking devices embedded with motion sensors to connect people and assets in real time over long-range wireless network infrastructure. It aims to save millions of dollars per year in operations for infrastructure companies by implementing various use cases on single network infrastructure.

4. Trashcon

A Bengaluru-based startup, Trashcon, founded by Nivedha RM, has created Trashbot, an automated municipal solid waste segregator that separates municipal solid waste

(MSW) into biodegradable, non-biodegradable, metals, and rejects components of mixed MSW mechanically. The segregator can process up to 300-400 kgs of MSW/hour, recovering up to 85-98 percent of biodegradables and more than 95 percent of non-biodegradables. Any kind of mixed waste is dumped into the hopper and the waste is segregated instantaneously.

With an inbuilt IoT technology, Trashbot consumes relatively less energy compared to conventional segregators, minimizes manual intervention and enables quick processing of large volumes of waste. Trashbots are installed at various wards across the city to prevent dumping of wastes on the streets and pathways, and thus prevent choking of water and sewage channels, which have resulted in flooding during heavy rains.

5. Ossus Biorenewables

This Bengaluru-based startup is creating solutions for clean energy and recovery of green chemicals from waste water. They are focused on assetizing waste water through, bH2 plus, a technology employing specially-designed microbial cell factories, for generating biohydrogen and metals from renewable feedstocks like industrial effluents, municipal sewage and polluted water bodies.

With the potential to be retro-fitted to storage tanks, effluent treatment plants or installed directly in-situ for the restoration of polluted rivers, lakes, and other bodies of water, this startup is creating an end-to-end green solution for valorising the utilizable energy present in waste water.

Founded by Dr. Suruchi Rao and Shanta Rao in 2017, Ossus Biorenewables is currently in the process of demonstrating the elemental capability of their technology for generating value from produced water, an effluent generated by upstream oil and gas companies.

Notes to Editors:

Shell in India

Shell is one of the most diversified international oil company in India's energy sector with over 7000 employees. It is a major private sector supplier of crude products, chemicals and technology to public/private sector oil companies. It maintains a significant presence in the country with its lubricants and retail businesses. Shell also has a technology center, a financial business operations center, an in-house global IT center and operates a joint venture LNG receiving and re-gasification terminal. Through its subsidiary company BG Exploration and Production India Limited, Shell holds a 30% interest in, and is joint operator of, the Panna - Mukta oil and gas fields and the Mid and South Tapti gas and condensate fields (PMT fields). Shell also holds a 32.5% equity stake in Mahanagar Gas Limited (MGL). MGL has to its credit the distinction of pioneering the natural gas distribution network in Mumbai and its neighboring areas.

Shell's Global Technology Network

Shell Technology Centre Bangalore is one of three global technology hubs, alongside those in Houston, USA and Amsterdam, in the Netherlands. They form part of an integrated network of technology centres, which includes several smaller centres located close to our customers and other partners and provide tailored services.

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5. SHELL DILUTES INTEREST IN MAHANAGAR GAS LIMITED

Apr 11, 2018

Mumbai: Shell today announced that its wholly owned subsidiary, BG Asia Pacific Holdings Pte Ltd (BGAPH) has diluted its shareholding in the publicly listed Mahanagar Gas Limited (MGL) from 32.50% equity to 24.0% equity shares.

This is part of Shell's ongoing portfolio optimization to transform Shell into a simpler company, delivering stronger returns. We believe in the key role that gas will play in India and continue to seek opportunities in that arena. Our investment in the Hazira LNG receiving terminal in Gujarat and the recent creation of Shell Energy India, our gas marketing and trading business, shows our commitment to grow in India and to increase gas penetration in the country.

The other shareholders of MGL are GAIL (India) Limited (GAIL), who holds 32.50% of MGL's equity shares, the Government of Maharashtra with 10% and the Public Shareholders with 25% in MGL, respectively.

This announcement has no impact on other Shell businesses in India.

Shell believes that India offers a vast opportunity for growth for Shell's businesses and we will continue to pursue opportunities which can enhance Shell footprint in the country including in the retail network and our custom-built Technology and IT Centre in Bangalore.

The ever-growing energy demand in the country is an indication and call for advanced technology and innovation in the sector which Shell sees it as an important role to play. Shell looks forward to playing a significant part in the energy transition in India.

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Royal Dutch Shell plc

Royal Dutch Shell plc is incorporated in England and Wales, has its headquarters in The Hague and is listed on the London, Amsterdam, and New York stock exchanges. Shell companies have operations in more than 70 countries and territories with businesses including oil and gas exploration and production; production and marketing of liquefied natural gas and gas to liquids;

manufacturing, marketing and shipping of oil products and chemicals and renewable energy projects. For further information, visit www.shell.com.

6. SHELL BRINGS THE GLOBAL VEHICLE TRUST OX: THE INVENTIVE FLAT-PACK TRUCK, TO INDIA

Apr 11, 2018

Shell is collaborating with Gordon Murray Design to make this mission happen

New Delhi: Shell has announced that it will commission a pre-production prototype of the world's first flat-pack truck and it will take this truck to India, which is home to almost 18% of the world's population¹. The 'OX to India' mission will showcase the capabilities of the vehicle for bringing low-cost all-terrain mobility to rural communities in developing countries.



OX The world's first flat pack truck with Professor Gordon Murray, Executive Chairman, GMD, Huibert Vigeveno, Executive Vice President, Shell Global Commercial and Sir Torquil Norman, founder of GVT (left to right)

The 'OX to India' mission is a partnership between Shell and Gordon Murray Design (GMD), working in close alignment with the Global Vehicle Trust (GVT). This represents a crucial development stage of the vehicle, which was officially launched in 2016.

Shell will fund a bespoke prototype OX to take to India and will set up an outreach programme once the vehicle is in India. The vehicle will be re-engineered and built by GMD, and flat-packed for shipment to India in the later part of 2018.

The OX, based on GMD's flexible iStream® technology, will run exclusively on Shell fluids including Shell Rimula, a hard-working and high-performing diesel engine oil designed to help heavy duty and light duty engines to run efficiently in demanding conditions.

"Shell is eager to play a role alongside others in developing and promoting mobility solutions in developing regions. The OX to India demonstration will see the concept validated and discussed on the ground in a real world setting. We know limited mobility in hard-to-reach communities in

developing economies can restrict access to basic services and can limit the effectiveness of efforts to improve the quality of life. The OX has the potential to broaden access to transport possibilities and all the resulting benefits that come with this,” said Huibert Vigeveno, Executive Vice President, Shell Global Commercial.

The OX is designed to carry a payload of 1,900kg (approximately twice the capacity of most current pick-ups), which could include everyday necessities, medical supplies, building and agriculture materials. It can seat up to 13 people. The vehicle was envisioned by entrepreneur and philanthropist Sir Torquil Norman and designed by renowned automotive engineer Professor Gordon Murray.

Other innovative features of the OX include:

- Lightweight, rugged and durable design to maximise payload for goods and people
- Low cost, simple maintenance through accessible components and fewer parts
- Designed for self-assembly, supplied fully assembled or flat-packed for easy shipping and local assembly

Sir Torquil Norman, founder of GVT said: “I’m so pleased to welcome Shell aboard the OX project and for sharing GVT’s vision that this remarkable and versatile vehicle will provide a transformation in affordable mobility for so many people where the need is most acute. With Shell taking the OX to India we can demonstrate its capability in a key market, which will help attract long-term production partners.”

Professor Gordon Murray, Executive Chairman, GMD said: “After our highly successful co-engineering Shell Concept Car programme with Shell, it is exciting to be once again working with Shell on the next phase of this extremely important and ground-breaking project. The OX is one of our most important engineering designs and it is certainly the vehicle of which I am most proud of, as its disruptive design has the potential to change the current mobility model and with Shell’s vision this vehicle could go on to improve so many people’s lives.”

Recognising the need for sustainable, cleaner and more energy efficient transportation solutions, Shell is collaborating and co-engineering a number of projects. In 2016, Shell partnered with Gordon Murray to co-engineer the **Shell Concept Car** – an ultra-efficient city vehicle that, compared to a typical city car, uses 34% less primary energy over its entire lifetime. Shell is also partnering with AirFlow Truck Company to develop a new hyper-fuel mileage Class 8 truck known as the **Starship**. Its aerodynamic design will seek to demonstrate improvements in fuel economy for while lowering CO₂ emissions.

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Notes to Editors:

- ¹Source: United Nations, World Population Prospects: **The 2017 Revision**
- Link to images of OX: <https://www.flickr.com/photos/royaldutchshell/albums/72157671223809135>
- The OX’s revolutionary nature extends beyond the vehicle design because, uniquely, it is capable of being flat-packed within itself, enabling it to be transported more efficiently around the world. It takes three people less than six hours to create the flat pack in the UK prior to shipping, and six of these flat packs can be shipped within a 40ft high-cube container. Assembly labour is transferred to the importing country, where local professional companies will be employed to assemble and maintain the finished vehicles. Three skilled people can put an OX together in approximately 12 hours.

- The overall vehicle length is far shorter than a large SUV, and yet it can carry a payload of 1900kg (approximately twice the capacity of most current pick-ups) with a load volume of 9.0 m³. Based on EU size guidelines, it can seat up to 13 people or carry eight 44-gallon drums or three Euro-pallets. Figures are based upon production targets.
- For more information visit: <https://www.oxdelivers.com/>

Royal Dutch Shell plc

Royal Dutch Shell plc is incorporated in England and Wales, has its headquarters in The Hague and is listed on the London, Amsterdam, and New York stock exchanges. Shell companies have operations in more than 70 countries and territories with businesses including oil and gas exploration and production; production and marketing of liquefied natural gas and gas to liquids; manufacturing, marketing and shipping of oil products and chemicals and renewable energy projects. For further information, visit www.shell.com.

About Gordon Murray Design Limited

Gordon Murray Design Limited is a British company operating from Shalford, Surrey. The Company is recognised as a world leader in automotive design and reverses the current industry trend for sub-contracting by having a complete in-house capability for design, engineering, prototyping and development. The Company is compact and focused and undertakes automotive and other engineering programmes in an efficient and innovative way. For more information please visit www.gordonmurraydesign.com.

The iStream® technology is a complete rethink and redesign of the traditional automotive manufacturing process and could potentially be the biggest revolution in high volume manufacture since the Model T. Development. The process began over 15 years ago and it has already won the prestigious 'Idea of the Year' award from Autocar who were given privileged access in order to make their assessment. The simplified assembly process means that the manufacturing plant can be designed to be 20% of the size of a conventional factory. This could reduce capital investment in the assembly plant by approximately 80%. Yet the flexibility of this assembly process means that the same factory could be used to manufacture different variants. The iStream® design process is a complete re-think on high volume materials, as well as the manufacturing process and will lead to a significant reduction in full lifecycle CO₂. For more information please visit www.istreamtechnology.co.uk

About the Global Vehicle Trust

In 2010, Sir Torquil Norman founded the Global Vehicle Trust (GVT) to pursue his ambition to help people in the developing world by providing cost-effective mobility for all. The GVT subsequently briefed renowned automotive designer Professor Gordon Murray on a unique humanitarian programme to create a revolutionary lightweight truck. As part of an aid programme, the Global Vehicle Trust OX could provide an essential element of infrastructure to enable the local population to raise the community's standard of living, and to assert its independence by gaining control of its transportation needs and costs.

Sir Torquil Norman is a former pilot, banker, company executive and toy manufacturing entrepreneur. He is a passionate philanthropist, and is chiefly responsible for the rescue and renovation of The Roundhouse in Camden, north London.

7. FULLY SYNTHETIC, STATE OF THE ART, SHELL HELIX HX8 NOW AVAILABLE IN INDIA

Apr 16, 2018

Engine protection that adapts to every drive

Product Highlights:

- Made using Flexi Molecule Technology suited to adapt to severe driving conditions and provide complete protection to engines
- Produced from 100 percent synthetic base stock to achieve higher performance levels
- Enhanced fuel economy, reduced emissions with less frequent top ups and cost savings
- Suitable for gasoline, diesel, gas engines

Mumbai, April 16, 2018: Shell Lubricants, the global leader in finished lubricants, today announced the launch of the fully synthetic 'Shell Helix HX8'. In India it is suitable for all cars including SUV's, hatchbacks, sedans, MUVs. With multiple benefits for drivers - 'Shell Helix HX8' forms protective barriers around critical and high-risk engine parts, providing 40% better wear and 78% better corrosion protection as well as 58% better oxidation stability and high-temperature deposit control versus industry reference oil. Priced at MRP 850/Litre, the synthetic engine oil is available in packs of 3.5L, 4.5L 1L, across India.

Launching the new 'Shell Helix HX8,' Mansi Tripathy, Country General Manager, Shell Lubricants, India, said, "The engine is the heart of a vehicle and needs to be protected by right engine oil for better performance, longer life and above all, ensuring a smooth drive. We have seen the trend that consumers are actively shifting to synthetic motor oils. India's automotive car segment is growing at about 9% per year whereas SUVs are growing at an astounding rate of more than 30% per year. (Source SIAM/ Industry estimates 2016-17). Most SUVs are powered by turbocharged engines that provide higher power output for smaller capacity which means higher stress on vital engine parts. Therefore, we identified the need of engine oil which adapts to severe conditions and protects the engine in every drive. With 'Shell Helix HX8', we will be able to cater to the changing demand of the consumers and strengthen our commitment to Indian market and expand our portfolio."

Car engines are exposed to diverse terrains and harsh conditions such as city congestion, highway acceleration, steep climbs and cold starts. However, standard engine oils are not equipped to handle these conditions and might not be able to adapt to provide the required protection to engines. Derived from 100% synthetic base stock that houses fewer unwanted components, 'Shell Helix HX8' with Flexi Molecule Technology is suited to adapt to severe driving conditions and provide complete protection to engines. The dynamic Flexi Molecules in Shell Helix HX8 activate in response to changes in engine stress levels, enhancing fuel economy and engine longevity by activating when the pressure is on. Overall, this results in a 30% faster flow in low temperatures allowing the oils to reach critical engine parts quickly for easier starting and warm up.

With advanced technology, Helix HX8 is the latest addition to Shell's Global 'Drive On' campaign. This campaign is a rallying cry for drivers to re-connect across the world and reignite their passion for driving.

Notes To Editors

About Shell Lubricants

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manufacture base oils in eight plants, we blend base oils with additives to make finished lubricants in almost 70 plants, and we distribute, market and sell lubricants in over 100 countries.

We have more experts talking to more customers than any other lubricants supplier. We have over 350 technical support specialists and 1,000 sales professionals working with customers every day. We offer a wide range of services in addition to our products, including Shell LubeMatch, a market leading online tool that matches lubricants to vehicles and equipment, and Shell LubeAnalyst, an early warning system that enables our business customers to monitor the condition of their equipment and lubricant, helping to save money on maintenance.

Shell's world-class technology is applied in our products and technological collaborations. We have four leading lubricants research centres in Germany, the USA, and Japan (in a joint venture with Showa Shell) with more than 200 scientists and engineers dedicated to lubricants research and development.

We have 150 + patent series for lubricants, base oils and greases. One of the ways we push the boundaries of lubricant technology is by working closely with top motor racing teams such as Scuderia Ferrari and Penske Racing. These technical partnerships enable us to expand our knowledge of lubrication science and transfer cutting-edge technology from the racetrack to our commercial products.

About Shell Lubricants India

Shell is one of the most diversified international oil company in India's energy sector. It is a major private sector supplier of crude products and chemicals to India. With over 3000 staff in the country, Shell has a significant technology centre, a financial business services centre and operates a joint venture LNG receiving and re-gasification terminal. Earlier this year, it signed MOUs for a floating LNG terminal in the country. Shell also has a downstream business marketing fuels, lubricants and specialty products. It recently announced creation of an in-house global IT centre in Bengaluru.

Shell Lubricants' India operation is part of Shell's long-term commitment to India and its support for the country's increasing energy needs. Shell Lubricants' customers in India include Wartsila, Maruti Suzuki, Hyundai, Ford and Thermax.

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8. SHELL LUBRICANTS INDIA ANNOUNCES FREE HEALTH CAMPS FOR TRUCK DRIVERS AND MECHANICS TO CELEBRATE ROAD SAFETY WEEK 2018

May 03, 2018

Enhancing 'on-road' safety with focus on driver health

New Delhi, May 3, 2018 – Shell Lubricants India announced health camps for truck drivers and mechanics, commencing from 26 April 2018, as part of their National Road Safety Week celebrations. Held at the Sanjay Gandhi Transport Nagar, Delhi, the health camps are aimed at encouraging regular health check-ups for truck drivers and its importance for their 'on-road' performance.

Inaugurated by Ms. Mansi Madan Tripathy, Country Head, Shell Lubricants India Cluster and Mr. Gareth Flood, Chief Marketing Officer, Shell Lubricants India, the Delhi health camp is the first of five that will be introduced at various locations across India. The Delhi camp witnessed over 200 participants on the first day and is set to continue for a month. Truck drivers are provided free health examinations and counsel, after testing for BMI, blood pressure and sugar levels among other vitals. These are administered under the supervision of trusted medical service providers.

Shell realizes that truck drivers work long hours and often neglect their health, investing most of what they earn towards the wellbeing of their family. This intervention by Shell is a testament to their commitment towards ensuring a holistic development of their driver partners and mechanics and contributing to a safe driving environment. The health camps will address the health needs of truck drivers and contribute to their overall well-being and driving performance while potentially preventing accidents.

Commenting on the initiative, **Ms. Mansi Madan Tripathy**, said, "At Shell India, we believe that ensuring road safety is imperative for all. Extending this belief across our operations, we not only strive to provide premium care to our valuable partners across operations, but also aim to give our best to the society at large. This initiative is an attempt to celebrate the unsung heroes who work tirelessly to deliver an exceptional standard of service. We are positive that our attendees will find these camps beneficial and adopt recommended health check-ups as a regular practice."

Shell is also inviting truck drivers, mechanics and their families to participate in health camps in Agra, Jaipur, Lucknow and Ambala, in its endeavor to spread awareness about the importance of being healthy and safe on the road.

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9. SHELL INDIA AWARDED UNITED NATION'S BEST INNOVATIVE PRACTICES AWARD 2018 FOR "WOMEN AT WORKPLACE" CATEGORY

May 11, 2018

New Delhi, Shell India received United Nation's Best Innovative Practices award for "Women at Workplace" category at the United Nations Global Compact Network India(UNGCNI) Gender Equality Summit 2018. This is a recognition of Shell's ongoing efforts in creating a more diverse and inclusive workplace where women are consistently provided opportunities to advance their careers whilst maintaining a healthy work-life balance.

Celebrating the recognition, **Ms. Mansi Tripathy, Country Head, Shell Lubricants India Cluster**, said, "Shell has a proud heritage of celebrating diversity and fostering inclusion. I am proud to be part of an organization that provides women opportunities to grow as professionals, while maintaining a healthy work-life balance. Our global theme of 'Balance means Business' is built on the foundation that better gender balance leads to greater business performance. On behalf of Shell, I thank the UN GCNI for recognizing this effort."

The UNGCNI's case study competition drew participation from over 30 organizations from across Corporates, NGOs, Semi government, Start-ups and B Schools. The jury comprised of experienced individuals including Sarika Bhattacharya- CEO Of BD Foundation, a leading D&I consulting firm in India; Mrs. Veena Swaroop, Ex- Executive Director Human Resources for Engineers India Limited and Dr. Manushi Chaudhary- Academician from the Birla Institute of Management.

The winners of the award were judged on the basis of a case study highlighting organization diversity & inclusion (D&I) practices. Shell India's presentation on, "Balance means Business" highlighted the company's 3C model (Compliance, Care & Choice) through real life experiences of its women employees who shared personal stories to bring to life the impact of Shell's policies on their careers as well as the role of leaders and enabling environment. Be it reaping the benefits of the home working policy while leading the HR portfolio for Asia Pacific; or benefitting from a six-month sabbatical to pursue dance and spirituality, the Shell women stories further brought to life the tangible value created by the company's D&I focus.

Added **Mr. Tarun Varma, VP HR, Shell India**, "We accept this prestigious recognition on behalf of the 7000 colleagues who are powering progress together every day across Shell's lines of business and services in India. We truly admire and respect the many roles women play, both personally and professionally. We re-affirm our commitment to making Shell a truly inclusive workplace where each of us is motivated to bring our whole self to work, irrespective of gender, race, age or sexual orientation."

Shell's focus on other aspects of diversity ranging from opportunities for especially abled people, differential lifestyle choices and orientation including for LGBTQ especially struck a chord with the jury. The case study also brought out the uncompromising focus by the Shell businesses in India around safety & security and state of the art facilities, that create an enabling environment for diversity to thrive.

Shell India's full suite of programmes on capacity development and mentoring were acknowledged and appreciated by the jury. This was also viewed as a successful formula towards sustained improvement of women representation at senior levels. Initiatives undertaken by Shell Foundation and examples such as the NXplorer (an awareness building programme focused on food - water - energy nexus) and Re-Energize (a programme to support women, who

have been on a career break due to assorted reasons, to start a career with Shell) also helped set the company apart from the other entries.

10. SHELL LUBRICANTS UNVEILS THE 'POWER OF PARTNERSHIPS' CAMPAIGN TO CELEBRATE INDUSTRY COLLABORATION AND PARTNERSHIPS

May 16, 2018

Extends its brand promise of 'Together Anything is Possible' to help the industry achieve operational efficiency together

Mumbai, May 15, 2018 – Shell Lubricants, the global market leader in finished lubricants, today launched "Power of Partnerships" in Mumbai, to encourage industry collaboration and harness relationships to achieve operational efficiency together. The campaign is an extension of 'Together, Anything is Possible' (TAIP), the first global brand positioning for Shell B2B Lubricants, introduced last year. Moving forward from TAIP which first introduced the concept of reducing 'Total Cost of Ownership' (TCO),^[1] 'Power of Partnerships' aims to demonstrate the significance of powerful collaborations in advancing industries and helping companies overcome their challenges now and in the future.

Highlighting the message of forging strong alliances, Shell launched 'The Bat Doctor' video, featuring Mr. Ram Bhandari, a celebrity bat doctor, who has made bats for cricketers like Sachin Tendulkar, Sourav Ganguly and Rahul Dravid, to name a few. The video demonstrates the importance of striking the right partnerships across situations to brew a solution for success; just as the cricketers' bats were instrumental to their own. The video can be viewed at <https://youtu.be/BMxQFoozPoM>.



Gareth, Mansi, Ram and Troy at the PoP Launch

part of its renewed focus on building greater collaboration with customers, Shell Lubricants undertook a study to understand lubrication practices in the manufacturing and construction sectors in India. Findings reveal that India's manufacturers are engaged and optimistic about Industry 4.0 technologies^[2], with 46% of those surveyed anticipating that the resulting savings could exceed INR 33 million. India's construction companies on the other hand recognise the benefits of a proactive maintenance approach but are not necessarily succeeding in its

implementation. 86% of those surveyed believe that effective equipment maintenance can lead to cost savings, but 82% still feel that maintenance is often deprioritised until there is a breakdown. An absence of senior management engagement in the importance of maintenance has come to light as one barrier to effective preventative action.

The findings shed significant light on lack of expertise, third-party support combined with under-resourced teams, hindering the widespread uptake of new technologies and effective lubrication practices. There are also concerns about the implications on Total Cost of Ownership (TCO) with majority companies expecting TCO to increase as a result of introducing new technologies.

In light of this, collaboration will be key to unlocking progress. Optimising lubrication can have a significant impact on component life, maintenance costs, and unplanned downtime, and as such, can contribute to reduced Total Cost of Ownership (TCO) and improved equipment productivity.

With the 'Power of Partnerships' campaign, Shell Lubricants, together with OEMs and industry experts, aims to help bridge the gap, with the industry knowledge, people & expertise, and strong relationships to help deliver value to customers and support them in daily maintenance challenges. Shell today offers its expert technical services, including a mobile chat application called LubeChat, designed to help customers upskill their teams and provide the services they need to implement effective equipment lubrication.

Speaking on the occasion, **Mr. Troy Chapman – Vice President, Global B2B and OEM Marketing, Shell Lubricants** said, "As a part of our continuing promise on building greater collaborations with our customers, Shell Lubricants has undertaken an extensive exercise to understand the current lubrication practices and core challenges that affect industrial operations. Companies realise that proper maintenance is important but are not set up to succeed. Maintenance teams are under strain, and lacking knowledge around effective lubrication. Hence, we are aligning our Global outlook to reach out to our customers better, offer our people expertise to ensure we can all power progress together."

Adding to this, **Ms. Mansi Tripathy, Country Head of Shell Lubricants India Cluster** said, "At Shell Lubricants, we pride ourselves on working closely together with customers to help improve their equipment maintenance practices and enhance their competitive advantage, now and in the future. This sharing of expertise will become only more valuable to help companies navigate the changes that lie ahead. We have helped companies in India achieve cost savings of close to INR 57 crores as of today, helping them enhance their competitive advantage."

[1] Total Cost of Ownership (TCO) is defined by Shell Lubricants as the total amount spent on industrial equipment, including cost of acquisition and operation over its entire working life, including costs of lost production during equipment downtime

[2] Industry 4.0 technologies are defined as technologies that support the digitisation and automation of manufacturing operations (e.g. sensors, connected equipment, autonomous equipment, robotics, cloud based or big data-based technologies)

Notes to Editors

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11. SHELL LUBRICANTS AND HYUNDAI COMPLETE A DECADE OF PARTNERSHIP IN INDIA

May 18, 2018

Extend contract for the next 3 years; Launch new engine oil for Hyundai Customers

New Delhi – Shell Lubricants, the global market share leader in finished lubricants and Hyundai Motor India Limited (HMIL), the country's second largest car manufacturer recently announced 10 Years of their partnership in India. The partnership stands as a testament to Shell's commitment of delivering excellence by continuing to focus on providing the best and cleanest products and solutions to customers. The synthetic technology used by Shell Lubricants helps achieve higher performance levels than the mineral lubricants.

Ms. Mansi Madan Tripathy, Country Head, Shell Lubricants India Cluster said, "Shell Lubricants has been working with Hyundai since 2008 to deliver premium quality products and services to partners and customers. Our shared values of customer centricity, and a strong focus on growth has helped us progress together in the last 10 years. This partnership has only expanded over time, and we look forward to another decade of industry-leading collaboration. Not only has our partnership stood the test of time, but truly redefines exemplary customer service and pioneering global best practices."

Mr. Y.K. Koo, Managing Director, HMIL added, "Hyundai and Shell have progressed together for the last 10 years in the true spirit of partnership through collaboration and innovation with a common goal to maximize customer satisfaction. Hyundai's long-term vision is to be the customers' lifetime partner in automobile and beyond. By leveraging the strengths of the two global brands, we aspire to offer outstanding aftersales experiences to Hyundai customers and look forward to fostering this strong and trusted association in future."

The two organizations announced the extension of their contract for another 3 years during which they will continue to collaborate to improve both the driving as well as the servicing experiences for customers and their Hyundai cars. On this occasion, Shell Lubricants and Hyundai launched the Shell Helix HX7 AH – A synthetic technology motor oil, in for the Franchise workshop network. Shell Helix HX7 promises to help keep Hyundai engines clean and efficient, preventing the formation of sludge & engine deposits. It also enhances fuel efficiency and helps engines to deliver better performance.

A commemoration event, held at The Leela, Chanakyapuri on 25th April, celebrated their joint work in innovation and global best practices. Hosted by the Shell team, the event witnessed a significant number of attendees from both the companies including industry stalwarts like Mr. Y.K. Koo and Ms. Mansi Tripathy, among others.

The event witnessed sessions discussing the power of their enduring partnership, future product launches, and future perspectives from both companies. The distinguished Shell Lubricants and Hyundai leadership team also participated in a signing ceremony.

Shell has provided constant support to the Hyundai team and forged newer grounds of collaboration for a multitude of events and initiatives. Shell has been actively promoting its global association with The Hyundai Motorsports team at the World Rally Championship in India. This showcases the strength of Hyundai Cars and Shell under extreme conditions. Every year lucky Hyundai customers witness the Hyundai Car in action during a rally stage and witness the technology and workmanship of service under extreme conditions. The company has also been helping Hyundai in its efforts to increase the Customer Satisfaction Index through active participation in events like Customer Meet, Skill Fest, Family days, etc.

Notes To Editors

Shell in India

Shell is one of the most diversified international oil company in India's energy sector with over 7000 employees. It is a major private sector supplier of crude products, chemicals and technology to public/private sector oil companies. It maintains a significant presence in the country with its lubricants and retail businesses. Shell also has a technology center, a financial business operations center, an in-house global IT center and operates a joint venture LNG receiving and re-gasification terminal. Through its subsidiary company BG Exploration and Production India Limited, Shell holds a 30% interest in, and is joint operator of, the Panna - Mukta oil and gas fields and the Mid and South Tapti gas and condensate fields (PMT fields).

Royal Dutch Shell plc

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12. SHELL LUBRICANTS INDIA

Jun 09, 2018

'Shell lubricant in the no.1 lubricant supplier and a 70- year history of innovation. The company has its presence in various industries worldwide, including metal, mining, power generation and home energy. With the right products, solutions and services, Shell lubricant India has recently witnessed considerable growth in metal industry, where even one break down or unscheduled maintenance can lead to stoppage of production. Shell India thus offers advanced solutions to make real life difference to productivity of an industry.



In this exclusive interview with Iron&Steel Review, Praveen Nagpal, Chief Technology Officer of Shell Lubricants India discusses the latest trends and challenges in the metals and mining industry, technological edge provided by lubricants in metal industry, the business cycle of vendor partners and the new-age solutions to reduce the Total cost of Ownership. '

Shell Lubricants has its presence in India for quite some time. What do you think are the new trends and the technological edge introduced by lubricants in the metals and mining industry?

Ans: The metals and the mining industry is shaping up in India and the new technologies are bringing more efficiency. In recent years, the efficiency of a machine has been increasing in both metals and mining industry. And when this is increasing, it also increasing the challenges for lubricants.

Lubricants is an integral component of nay moving part within equipment. Efficiency canthus be increased either in hardware changes, or it can be done with a smaller sort of capacity of an oil reservoir and when that happens, it also starts increasing the stress on lubricants. There are two types of stresses, which come on lubricants -Mechanical Stress and Thermal Stress. The

Mechanical Stress largely comes due to the heavy loads and Thermal Stress comes because of the temperature.

The metal industry also faces challenges related to water contamination and dirt, etc. So, we see the challenges and accordingly we develop the solution. Whether it is a hydraulic system or the gear system or the circulating oil system or a certain type of grease, we offer the right type of product to the metal sector and we continually see the opportunity to work on. So, if we take an example of circulating oil, the major issue of the metal industry is when the water mixes with that oil, it affects the performance of bearings and rollers. It also reduces the lifetime of lubricants and the component.

We are developing the new generation product, Morlina S2 BA, which has got a high grade super demulsibility. It exceeds what a typical industry requires. Similarly, with the greases, the development of the hydraulic oil and all these products give a very good technology competitive edge in a way that they go beyond the industry's specification.

When it comes to the maximize usage of oil life and improving reliability, this comes as a technology edge of these products in the metals and mining industry. And we continue to develop this kind of solution for the metals and mining industry. And of course, we are happy to mention that JSW, JSPL, Bhushan Group and Tata Steel are some of our prime customers in the metal industry.

With several modern steel plants rising in the metals industry, what solutions Shell Lubricants can offer to these plants?

Ans: We must look from customers shoes to provide solutions for the metals and mining industry. What kind of solution they require? Is it the product portfolio or is it how we really help to improve their Total Cost of Ownership or is it how do they ensure longer lifetime of a component and meet the efficiency? Efficiency is the continual operation at the optimum usage of energy. Again, if there is any unexpected problem like leakages, which is quite common in the metals industry.

This can significantly increase their cost of operation and maintenance. We here at Shell Lubricants see what kind of solution we can offer through our product, people and services. We also look at the various key challenges of the customers within the metals industry. Hence, we do the survey of the plant, finding out the opportunity to optimize the total consumption by increasing the lifetime of a component. And, this kind of solution helps customers reduce the Total Cost of Ownership. So, Shell works only in that area with its customers.

How do you see the growth of the metal sector in India? How do you position Shell Lubricants within the related sector?

Ans: If you look at the growth of metal sector, India is probably the only country, which has been growing significantly in the metal segment. The reason is the huge investment happening in infrastructure by Government and Private industries. The construction projects in Indian cities are driving demand for steel.

From the industry data, the intent is to increase steel per capita consumption from present 60 kg to 160 kg by 2030 and a target of 300 million tonnes as per government projections. Currently we have ended around close to 100 million tonnes of steel production. So, this will significantly increase. Now, look at the global steel demand, which is typically growing at 1.2-1.5 percent. The biggest market like China is declining, whereas the India sees the typical growth of 7 to 8 percent. So, the demand in the metals and mining industry will continue to increase.

Looking at the future demand growth, Shell needs to be aligned with whatever new solution customers required in terms of product and services. Then, if new technologies are coming for

lubricants. Accordingly, we need to collaborate with the end customer and the equipment manufacturer to develop solutions for that.

Thus, we are continuously connecting with our end customer, engaging with the OEMs in the metal sector, understanding what kind of challenges they anticipate with the future technology. Accordingly, we continue to develop solutions with them. This is how we really link our solutions with a typical industry. At present, we have a market share of 5 percent combining the industrial and automotive sectors.

How do you see the business cycle of vendors in partnering the growth of metals and mining industry?

Ans: When we talk about the business cycle of vendors, we continue to connect with all our vendors, understanding how they are going to shape up their new technology as per the current industry demand, what kind of lubricant challenges they anticipate and what kind of solutions we can jointly develop for the metals & mining industry. Yes, we are closing the loop by interacting with our customers and understanding the performance of our products. We also try to understand from them what when they see new technologies, what kind of new challenges they see for the lubricants.

That's a very critical element in our new product development. We sit with the OEMs, we understand how the OEMs are improving the efficiency of their machines, what kind of hardware they are changing in their machines and how it is driving demand for the new generation lubricants. Then, connecting all the dots together, we start our development process. This development process depends upon a kind of product cycle. It can take one to three years' time for a product to touch the ground. So. It means that have to really work in advance before new technologies touch the ground. And that's how we really work closely with our customers, vendors, OEMs to develop solutions for the metals and mining industry in India.

What are the operations and maintenance issues in the metal sector? How much has Shell Lubricants helped in maintaining the cost of operation in ferrous and non-ferrous metals industry?

Ans: A typical issue in the metal sector is operations and maintenance. From an end-user perspective, the most critical for the end customers that they cannot afford any unplanned stoppage. One breakdown or unscheduled maintenance incident can lead to significant loss of production. So that's one area where reliability is the main concern. They want to use the products which ensure a reliable operation.

So, there would be no unplanned stoppages and no unscheduled breakdowns in the equipment. The second major issue of metal sector is leakages. The third issue is water contamination since the metal industry goes through several processes where leakages can be observed because of water mixing with lubricants. So, these are the major challenges of metal sector. The industry wants supplies to help them addressing these challenges.

Yes, we also focus on non-ferrous metals industry. We have clients like Hindustan Zinc, Hindalco and others. We continue to connect with them, understanding their needs and challenges in the lubricant sector. But again, I would say our primary focus is on steel.

How does Shell Lubricants integrate an E2E supply chain to develop sustainability in its operations?

Ans: When we talk about End to End supply chain, we see it from the inception. So, we start from digging, producing ore, transmitting ore to plant. In this end to end supply chain, there are several types of equipment's used. One must really find out what kind of lubricants would be

required, what kind of services would be required. I strongly believe the days are gone when people just talked about the product. Now people talk about the operating life cycle cost and that works intend to end cycle.

In the metals industry, starting from mining to end production, we, at Shell, have the right solution, right product offerings and right kind of services, which help customers reduce their total cost of operation. Within the metals industry, there are different types of applications, which need greases, hydraulic oil, circulating oil or gear oil. All these kinds of offerings and the services, which helps in monitoring the performance of products and the additional services, which compliment the performance of products in helping customers reduce their cost of operation is offered by Shell Lubricants.

However, the future is all about the Internet of Things. Today, we talk about the oil condition monitoring by taking a physical sample, but now we are also exploring by putting some sensor in the oil system, which is continuously monitoring the performance of oil, connected via GPS in our system where we can look 24x7 at the performance of lubricant and it can generate alarms if anything goes wrong with the machine and the lubricant; alarming customers that something wrong is happening and take corrective action before the failure occurs. Considering the long-term partnership with our customer, we improve the overall efficiency of their operation and minimize unplanned stoppages and that's the area we are continuously working on for future development.

Source: Iron and Steel Review

13. SHELL BRINGS MAKE THE FUTURE FESTIVAL TO INDIA FOR THE FIRST TIME

Jun 13, 2018

Futuristic Cars to compete for fuel efficiency at Shell Eco-marathon at the Festival

- Shell Eco-marathon (SEM) challenges student teams around the world to design, build, test and drive ultra-energy-efficient vehicles.
- SEM will be part of Make the Future India, a platform for conversation, collaboration and innovation around the world's energy challenges.
- Applications for SEM open from 11th June 2018 to 28th August 2018. **To register click here.**



Team India after a successful innings at MTF Singapore 2018

New Delhi : Shell is bringing their marquee event Shell Eco - marathon (SEM) to India for the first time.

The SEM Challenger will be part of Make the Future India to be held in Chennai between 6th – 9th December 2018. Shell's Make the Future is a global platform for conversation, collaboration and innovation around the world's energy challenges.

SEM, which was first inaugurated in 1939, is the world's longest-running student competition wherein engineering students are challenged to design, build and test fuel-efficient cars. Indian teams have been participating since 2010 but this is the first time the competition will be held on home ground.

With events hosted in countries around the globe, they aim to provide an opportunity for multiple stakeholders: including students, entrepreneurs, businesses, governments and the public, to experience, test and contribute bright energy ideas. The India tracks will showcase demo for cleaner energy solutions; discussions on powering India's progress - innovations, challenges and opportunities as well as partnerships for success. This is also a great opportunity for student teams to test and fine tune their vehicle for the Shell Eco-marathon Asia 2019. For first timers, this would be a great platform to showcase their skill, be part of a world-class experience and test drive their vehicles with fellow competitors on a professional circuit. Student teams that take to the track will be evaluated on the criteria of who goes farthest on the least amount of fuel.

There has been a growing demand from colleges to bring the fuel-efficiency competition to India and this will allow widespread participation from students across the country. In the past, Indian students have showcased many innovative and energy efficient models and prototypes that has also caught attention of industry and government. Team Averera from IIT BHU created a light weight three-wheeled electric vehicle with customized motor controller, that clocked a mileage of 350 kms on a single litre of fuel. The ingenious team from Sir M Visvesvaraya Institute of Technology, Bengaluru, Karnataka created the prototype with a 100cc motorcycle engine that clocked a mileage of 100+ kmpl. while team BITS Pilani worked on a car that would literally, run on garbage, using ethanol to drive its way into the fuel-efficiency competition.

Commenting on the same, Nitin Prasad, Chairman, Shell Companies in India said, "We have seen the quality, quantity, ingenuity and interest of the teams only rise over the past few years. This was one of the motivations behind getting our global competition to India so that more teams are able to participate and leverage this unique platform. At Shell, we believe that these bright young minds have the potential to truly impact the future of sustainability and I am positive that through our people, partnerships and innovations, we will be able to provide more and cleaner energy solutions for a better tomorrow."

India has been part of SEM for the last eight years. Since last year, Shell has enhanced its scope of search for future tech innovation in clean energy and future transport alongside fuel efficiency and brought them under one umbrella – Make the Future. All vehicles will be subject to the **regulations of the Shell Eco-marathon** which can be accessed.

For more information, please visit the **SEM Challenger India page**.

Shell in India

Shell is one of the most diversified international oil company in India's energy sector with over 7000 employees. It is a major private sector supplier of crude products, chemicals and technology to public/private sector oil companies. It maintains a significant presence in the country with its lubricants and retail businesses. Shell also has a technology center, a financial business operations center, an in-house global IT center and operates a joint venture LNG receiving and re-gasification terminal. Through its subsidiary company BG Exploration and Production India Limited, Shell holds a 30% interest in, and is joint operator of, the Panna - Mukta oil and gas fields and the Mid and South Tapti gas fields (PMT fields).

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14. MEGH SINGH WINS THE SHELL GLOBAL DRIVER OF THE YEAR AWARD 2017

Jun 20, 2018

Award recognizes drivers on safe driving practices that lead the way for others.



Ahmedabad: Megh Singh, a professional driver with Agrawal Roadlines Private limited, Gujarat, one of the contracted hauliers for Shell in India becomes the first driver from the country to be awarded the **Shell Global Driver of the Year award 2017** for East region globally. The region comprises all the countries on the eastern side of the world. The Shell Global Driver Award is a much-anticipated initiative that recognises drivers belonging to its hauliers and vendors for safe driving practices, proactively preventing unsafe behaviours or incidents and being role models for other drivers. Originally from Barmer, Rajasthan Megh has been a trucker for 25 years and transports hazardous goods (fuels) for Shell. He takes home the prize money of USD 1000.

A tough contest that saw Megh prevail over 2500 light and heavy vehicle drivers bears testimony to his exemplary driving behaviour and unwavering focus on safety that has helped improve Shell's health, safety, security and environment practices in the region. Having clocked an impressive 20,000 km in 2017 with ZERO motor vehicle accidents, Megh continues to motivate other drivers through safety tool box talks, encourages them to highlight hazards, near-miss and potential incidents and brings innovative ideas to encourage safe driving practices.

Commenting on his achievement, Megh Singh, the award winning driver said, *"Mujhe yeh award paa kar bahut khushi ho rahi hai. Main pichle 25 saal se driving kar raha hoon aur 7 saal se Agrawal Roadlines Pvt Ltd Jaamnagar ke saath hoon jo Shell India Marketing Pvt Ltd se judi hai. Hamara pehla uddeshya saavadhani baratna, doosra satark rehna, aur teesra suraksha rakhna hai. Savere jab hum gaadi mein loading karne jaate hai to pehle hum rakshak niyam, aur defensive driving niyam parhte hain. Agar humein kisi tarah ka khatra lagta hai to hum kaam nhi karte hain. Iss tarah haste haste yatra poori ho jaati hai. Agar hum apne kaam mein dhyaan rakhenge tabhi apna naam kamaa payenge.* (I am extremely happy on receiving this award. I have been driving since the past 25 years. For the last seven years I have been working with Agrawal Roadlines Pvt Ltd in Jamnagar, which is associated with Shell India. While we drive on the road, we always strive to exercise caution, stay alert and safe. Each time we go for loading

the material in our vehicles, it is a daily routine to read the defensive driving rules and remind us of our responsibility to ensure safety. We always assess the safety risks involved before starting our journey. By being planned and by following all the rules, we have managed to successfully complete all journeys. I believe that if one pays attention to whatever they do, they can accomplish great things in life.)”

Vikas Kochhar (Head Trading and Supply India) said, “Shell’s Driver of the Year Award offers us an opportunity to recognise those who lead and motivate others to practice safe driving behaviours. In India more than 150000 people are killed in road traffic crashes in India every year. This represents 10% of the road crashes worldwide. A majority of these accidents are caused by what is classified as ‘driver faults’. At Shell, safety is core to everything we do. We run an array of programs in India to build skill and behaviours to help drivers be safe behind the wheel.”

Shell has also rolled out #DriveSafeIndia campaign in 2017 that has benefited more than 3200 odd commercial drivers through defensive driving training and imparted training on safe road behaviours to over 10000 children. In 2018, #DriveSafeIndia is conducting health camps for truck drivers and we are rolling out a social media campaign supported by Ministry of Road Transport and Highways to inculcate safe driving practices targeting 1.5 Million Millennials across the country. Join the campaign to help India drive safe at **Shell India**

Shell in India

Shell is one of the most diversified international oil company in India's energy sector with over 7000 employees. It is a major private sector supplier of crude products, chemicals and technology to public/private sector oil companies. It maintains a significant presence in the country with its lubricants and retail businesses. Shell also has a technology center, a financial business operations center, an in-house global IT center and operates a joint venture LNG receiving and re-gasification terminal. Through its subsidiary company BG Exploration and Production India Limited, Shell holds a 30% interest in, and is joint operator of, the Panna - Mukta oil and gas fields and the Mid and South Tapti gas fields (PMT fields).

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15. SHELL'S TECHTONIC 2018 DELIBERATES ON DIGITALISATION IN THE OIL & GAS INDUSTRY

Aug 07, 2018

Bengaluru : A wave of digitalisation is sweeping through the Oil & Gas industry. From supermajors to small independent operators, new digital solutions are being implemented in areas as diverse as geological surveying, drilling and refining. The result is significant efficiency gains and cost savings. It is with this intent that Shell recently organised the second edition of its annual tech community event 'TechTonic' 2018 at the Shell IT Hub in Bengaluru, the largest IT hub for Shell globally. TechTonic is focused on inspiring learning about the entire hydrocarbon value chain of Shell, sparking new ideas through panel discussions, quiz competitions and masterclass sessions, and engaging the rich supplier and partner ecosystem.

The theme of this year's event was 'Digitalisation. Jay Crotts, Executive Vice President and Group CIO, Royal Dutch Shell and Mr. Nitin Prasad, Chairman, Shell Companies in India, were keynote speakers at the event and spoke about 'Digitalisation' and Shell's vision for the coming year. This was followed by a panel discussion on **Digitalisation in Energy Industry with a special focus on Innovative Models in Digital Talent Development** to enlighten the employees on the process and its advantages. The panel comprised of industry experts such as Rich McAvey, Gartner's Research VP for the oil & gas industry, Gopal Chettri, Senior VP & Business Leader at CGI, and Deepa Bachu, Co-founder and CEO at Pensaar. The panel was moderated by Alisa Choong, VP and CIO, Shell's Projects & Technology.

Speaking on the occasion, Mr. Nitin Prasad, Chairman, Shell Companies in India, said, "Our purpose in Shell India is to - **Power progress for more and cleaner energy solutions through our people, partnerships and innovations for India and the world.** Our stakeholders in society have an expectation that we will understand and adopt digitalization, which is at the heart of the energy transition to become a company that effectively leverages the next generation of energy technology and solutions. It is a vision today that shall become our future; not just in the context of Shell and Shell in India but our future as a country. This year's theme – Digitalization - is a continuation of our commitment to an environment conducive to learning, collaboration and technology. It is also in line with our aim of meeting the energy needs of society in economically, socially and environmentally viable ways."

TechTonic encourages all of Shell IT Bangalore Hub's 3000+ employees, other Shell entities and Shell's technology partners to showcase their projects, achievements, and innovative energy-industry-IT solutions through interactive booths. These booths showcased tools including Agile – a project management tool that helps manage workstreams and information flow, SAP integration in Shell's digitalisation journey, cloud computing capabilities in Shell and Shell's efforts towards process automation, among several others. InQUIZitive, a quiz competition on Shell's Business, Digitalisation & General Knowledge, was also held and moderated by Craig Walker - VP & CIO Downstream. Four employee teams battled it out, of which one team emerged victorious.

Rich McAvey, Gartner's Research VP for the oil & gas industry, also took a masterclass on the topic of **Digital Transformation & Future of Work in Oil and Gas.** The masterclass focused on how business leaders can use digital technologies to optimize performance and how CIOs must change IT to remain relevant and impactful.

Joseph C Campbell, T-System's Co-Chief Technical Officer and Head of Account Innovation, took a masterclass on the topic of **IoT Edge – Technologies for Digitalisation.** The masterclass covered how digitalisation would transform the landscape of the energy industry, refineries and many aspects within.

Initiatives such as TechTonic and Shell's increasing focus towards expanding its in-house IT expertise over the last decade is a testimony of the importance of digital ecosystems for driving the next leap of progress in the energy world. **Mr. Jay Crotts, EVP and Group CIO, Royal**

Dutch Shell said ,“As a company, Shell has always relied on innovation in engineering as well as digital technologies to drive growth and efficiency across its operations. This digital agenda has been at the forefront of our thinking for years- from automation of oil field [production] to the engagement with our end-customers. I believe the digital agenda gives us a platform for standards that allow us to execute business processes cheaper than we have ever done before.”

Mr. Arun Padmanabhan, VP – IT, Shell, Bangalore, added “When we started TechTonic in 2017, we had a clear focus on technology, community and learning. The event made us collectively realize the value delivery and impact we are having from all the IT locations globally and the Bangalore IT hub in particular. We retained that focus for this year and centered around the theme of digitalization – an area where IT plays a critical enabling role. TechTonic 2018 was an outstanding platform for us to drive the needed awareness and learning across the community and help staff keep up with the digitalization shift for value delivery. TechTonic will continue to remain an integral part of the IT Function and the India calendar of events.”

Since its inauguration in 2017, TechTonic, which has become an integral part of the annual calendar of Shell India, has helped increase the interest and enthusiasm towards utilizing technology to find more and cleaner energy solutions and help drive sustained value and growth for Shell and for India.

Shell in India

Shell is one of the most diversified international energy company in India with over 7000 employees, 200,000 retail customers and a 250 - strong distribution network. It brings world-class energy solutions across traditional, new energies and its derivatives including crude oil, refined products, chemicals and technology to individuals and enterprises. India is recognized as one of Royal Dutch Shell’s innovation hubs globally. It is home to world class centres hosting operations, information technology and innovation mandates in Bangalore and Chennai that are creating value for Shell and India. The company is nurturing a vibrant ecosystem in India to accelerate energy innovations with the Shell E4 programme for startups, Shell Eco-marathon and investments in companies like Husk Power that are expanding access to energy. Shell remains committed to making positive contributions to the communities in which we operate through our NXplorer that promotes the pursuit of Science, Technology, Engineering and Mathematics (STEM) education, Access to Energy and Road Safety across India.

Follow [@shell_india](#) [@makethefuture](#) [@shell_ecomar](#) to know how we are redefining the energy space

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16. SHELL DILUTES INTEREST IN MAHANAGAR GAS LIMITED

Aug 23, 2018

Mumbai: Shell today announced that its wholly owned subsidiary, BG Asia Pacific Holdings Pte Ltd (BGAPH) has continued with the dilution of its shareholding in the publicly listed Mahanagar Gas Limited (MGL) from 24% to now 10%.

This announcement has no impact on other Shell businesses in India.

Shell believes that India offers a vast opportunity for growth for Shell's businesses and we will continue to pursue opportunities which can enhance Shell footprint in the country. We continue to believe in the key role that gas will play in India and will actively seek opportunities in that arena. Shell looks forward to playing a significant part in the energy transition in India.

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Notes to Editors:

Shell in India

Shell is one of the most diversified international oil company in India's energy sector with over 7000 employees. It is a major private sector supplier of crude products, chemicals and technology to public/private sector oil companies. It maintains a significant presence in the country with its lubricants and retail businesses. Shell also has a technology center, a financial business operations center, an in-house global IT center and operates a joint venture LNG receiving and re-gasification terminal. Through its subsidiary company BG Exploration and Production India Limited, Shell holds a 30% interest in, and is joint operator of, the Panna - Mukta oil and gas fields and the Mid and South Tapti gas fields (PMT fields).

Royal Dutch Shell plc

Royal Dutch Shell plc is incorporated in England and Wales, has its headquarters in The Hague and is listed on the London, Amsterdam, and New York stock exchanges. Shell companies have operations in more than 70 countries and territories with businesses including oil and gas exploration and production; production and marketing of liquefied natural gas and gas to liquids; manufacturing, marketing and shipping of oil products and chemicals and renewable energy projects. For further information, visit www.shell.com

17. SHELL SIGNS BINDING LETTER OF INTENT (LOI) TO SECURE 100% EQUITY IN HAZIRA LNG & PORT COMPANIES 27 AUGUST 2018

Aug 27, 2018

New Delhi, India: Shell Gas B.V., a subsidiary of Royal Dutch Shell plc (“Shell”), announced today that it has signed a binding Letter of Intent (LoI) with Total Gaz Electricité Holdings France (“Total”) to acquire its 26% equity in the Hazira LNG and Portventure in India, subject to regulatory approvals.

Hazira LNG & Port venture comprises two companies; Hazira LNG Pvt Ltd (“HLPL”) that operates a LNG (Liquefied Natural Gas) regasification terminal in the State of Gujarat; and Hazira Port Pvt Ltd (“HPPL”), which manages a direct berthing multi-cargo port at Hazira. The move would allow Shell commercial and operational flexibility over Hazira to maximise integrated value and offer creative customer value propositions.

This portfolio action is consistent with Shell’s strategy to deepen its presence in the gas value chain in India, the fourth largest LNG consumer in the world. Shell aims to contribute in bridging the energy deficit and further augment gas supplies in India.

“Today marks an important milestone,” said Maarten Wetselaar, Shell’s Integrated Gas & New Energies Director. “This purchase creates a fully-owned and integrated Shell value chain – supply from our global LNG portfolio, regasification at the Hazira facility, and downstream customer sales. It enables Shell to better serve Indian customers and meet the country’s long-term need for more and cleaner energy. This also significantly strengthens the connection of the fastest growing gas markets in the world, India, and Shell’s unrivaled portfolio of competitive gas supply.”

Shell Energy India (SEI) was established in 2017, to aggregate demand from downstream customers and secure competitive international supply to meet such demand, and will market and sell that gas to customers across India.

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18. SHELL INDIA AND MINISTRY OF ROAD TRANSPORT AND HIGHWAYS ROLL OUT ROAD SAFETY PROGRAM, #DRIVESAFEINDIA TO REACH 5,000,000 MILLENNIALS

Aug 29, 2018

New Delhi, Shell Companies in India, in partnership with the Ministry of Road Transport and Highways (MoRTH), Government of India, has rolled out #DriveSafeIndia, a behaviour change program to drive home the importance of safe driving practices aiming to reach 5 Million millennials leveraging social media and on ground activities.

The first phase of the program saw high level of online engagement with more than 6 million impressions and 800,000 video views on Facebook and close to 400000 thousand impressions on Twitter. The Facebook engagement rate of 2.97% beat the India Road Safety 2017 benchmark of 2.0. The program targets the top ten road accident- prone cities of India.

Every hour India witnesses 17 deaths caused due to road accidents with nearly half of them being young adults. 80% of the fatalities are due to human action. In line with Shell's commitment to Goal Zero that leads by the principle of 'Safety for All' and MORTH's commitment to < add their mission>, the three-phase program combines online and on-ground activities to inculcate safe driving habits including:

- No over-speeding Wearing helmets
- Wearing a seatbelt
- No driving under the influence of intoxicants
- No distracted driving

Speaking on this partnership, **Shri Nitin Gadkari, Hon'ble Union Minister for Road Transport and Highways**, said, "India sees over 500,000 road accidents leading to 150,000 fatalities. Road safety is a prime concern for the Government and aims to bring down road accidents by 50 percent by 2022. We hope inculcating safe driving behaviours amongst our youth who are just starting to drive will set the way forward for the rest of the country. With the #DriveSafeIndia initiative in partnership with Shell, we are adding to our ongoing effort to create safer Indian roads."

Added Nitin Prasad, Country Chairman, Shell Companies in India, "As more vehicles and drivers hit the fast expanding Indian road network, we need to understand the implications of rash driving to others and ourselves. We should all be able to go home safe to our loved ones every day. #DriveSafeIndia is one such effort from Shell with the support of Ministry of Road Transport and Highways to create safer roads for all in India. We hope others, individuals and organisations, join us to take this movement to millions more across the country."

You can join the movement and spread the message on #DriveSafeIndia on **Facebook** and **Twitter**

Program Highlights

Facebook

- Over **62 lakh Impressions**, 28 thousand Engagements with an **Engagement Rate (ER) of 2.97%**
- Over **8 lakh+ Video Views** at a View Rate of 13.34% and **Completion Rate 59.26%**
- **'Distracted driver'** video got maximum attention with view time of 4.2 secs and ER of 1.15%
- The 25-34 age group had the highest with View Rate of 13.87% and ER of 1.15%
- Resonated better with Males with a Completion Rate of 60.18%

Twitter

- Close to **4 lakh Impressions**, 13 thousand Engagements with an **Engagement Rate of 3.56%**
- Close to **16 thousand Video Views** with a View Rate of 4.3% and **Completion Rate of 91.2%**.
- The program performed slightly better with Males with ER 3.6% (vs Females with ER 3.15%).
- The “**No driving under the influence of intoxicants**” saw the strongest engagement with Engagement Rate of 7.2%

The program created by combined team of Shell teams in India and London saw **Colloquial** design the collaterals and **Mediacom** deploy it across channels.

Coming up, #DriveSafeIndia will take the program on road to colleges across India to provide an experience the impact of safe driving practices through simulated exercises using virtual reality and animation. It will also target millennials to share their experiences of saving or losing through the adoption or lack of safe driving practices.

About Shell India:

Shell is one of the most diversified international oil company in India's energy sector with over 7000 employees. It is a major private sector supplier of crude products, chemicals and technology to public/private sector oil companies. It maintains a significant presence in the country with its lubricants and retail businesses. Shell also has a technology center, a financial business operations center, an in-house global IT center and operates a joint venture LNG receiving and re-gasification terminal. Through its subsidiary company BG Exploration and Production India Limited, Shell holds a 30% interest in, and is joint operator of, the Panna - Mukta oil and gas fields and the Mid and South Tapti gas fields (PMT fields).

About MoRTH:

A ministry of the Government of India, Ministry of Road Transport and Highways (MoRTH) is the main body for formulation and administration of rules, regulations, and laws relating to road transport in India. It has been led by Mr **Nitin Gadkari**, as minister, since May 2014.

19. TOTAL PRIZE MONEY OF RS. 20 LACS FOR WINNERS OF SHELL ECO-MARATHON TO BE HELD AT THE MAKE THE FUTURE FESTIVAL, INDIA

Sep 03, 2018

Registration date extended to September 7, 2018

New Delhi, August 30, 2018: Shell announced today that participating student teams for Shell Eco-marathon, an integral part of its marquee Make the Future festival that is being held in Chennai between December 6 to 9, 2018, stand to win a total prize money of Rs. 20 lacs across various categories. Till date, 40 student teams with close to 400 students from India and other countries have signed up for the first event in India. The company extended the registration for Shell Eco-marathon to September 7, 2018 to enable more students get a chance to test their custom designed cars for fuel efficiency and win. Shell's Make the Future Festival is a global platform for conversation, collaboration and innovation around the world's energy challenges.

One of the world's leading competition to recognize energy-efficiency, Shell Eco-marathon is a marathon with a difference. Student teams design, build and test cars for fuel efficiency. Unlike other marathons or car races, the Shell Eco-marathon recognises those teams who can go farthest on a litre of fuel rather than fastest. Past competitions have seen student designed cars achieve mileage of up to 2341 kilometer per litre*

Said **Nitin Prasad, Chairman, Shell Companies in India**, "Energy demand for a surging India will only grow. Economic, societal and individual needs for mobility will be a key contributor to this demand. India's first Make the Future festival and Shell Eco-marathon will offer young minds an opportunity to ideate, innovate and demonstrate out-of-the-box mobility solutions powered by efficient energy solutions. This is the need of the hour for India. I look forward to meeting the teams at Shell's Make the Future festival and wish them all the best for the competition."

Shreyas Ravi, Manager, Team Infieon Supermileage, SRM University, Chennai, one of student teams who have signed up for Shell Eco-marathon said, "We are here to break the stereotype with our prototype model which has been built upon three objectives - minimum weight, maximum coasting distance and minimum fuel consumption."

Shrey Kansal, Manager, team DTU Supermileage, Delhi Technological University, another competing student team added, "The looming threat of fuel crisis worldwide, coupled with concerns regarding environmental pollution, inspired the team to come up with a workable fuel-efficient battery electric vehicle prototype. The vehicle which our team is working on is going to provide a mileage of 156 kms per unit of fuel source. In India as well as globally, electric vehicle is being seen as a potential alternative which could become the next big thing in the clean energy automation space."

The first edition of the "invite only" **Make the Future India** will host attendees from industries - energy, automotive, aviation, manufacturing, shipping as well as experts, academia, policy makers and students from schools and engineering colleges. In addition to Shell Eco-marathon, the festival will showcase innovative energy and mobility solutions; host discussions on the future of mobility - innovations, challenges and opportunities - featuring experts from Shell and representatives from the automotive industry, start-ups, academia and other industry watchers. An Experience zone showcasing bright innovative ideas around mobility powered by cleaner energy to inspire the next generation of automotive designers, engineers and innovators await visitors to the festival.

Shell Eco-marathon will see teams competing in two vehicle classes. The Prototype class invites students to enter futuristic, streamlined vehicles, and the UrbanConcept class focuses on "roadworthy," energy-efficient vehicles aimed at meeting the real-life needs of drivers. Entries for the event will be divided into two energy categories:

- Internal combustion: gasoline, diesel, and ethanol
- Battery electric

For more information and to register, please visit www.shell.in

* in the Prototype Internal Combustion engine category.

Notes to Editors

About Make the Future Festivals

Make the Future Festivals is Shell's global platform for conversation, collaboration and innovation around the world's energy challenges. With events hosted in countries around the globe, they aim to provide an opportunity for multiple stakeholders: including students, entrepreneurs, businesses, governments and the public, to experience, test and contribute bright energy ideas.

About Shell Eco-marathon

Shell Eco-marathon is a global program built to offer students hands-on opportunities to develop ideas and technology, knowledge and skills, within an arena of competition.

Currently held in in Asia, Americas and Europe and made up of two key competitions: Shell Eco-marathon Challenger, and Drivers' World Championship, students from countries use innovative problem-solving skills to design and build their own cars. Looking at every aspect of design and technology, students compete to prove that their bright ideas will produce the most energy-efficient vehicle when tested on the track.

About Shell in India

Shell is one of the most diversified international oil company in India's energy sector with over 7000 employees. It is a major private sector supplier of crude products, chemicals and technology to public/private sector oil companies. It maintains a significant presence in the country with its lubricants and retail businesses. Shell also has a technology center, a financial business operations center, an in-house global IT center and operates a joint venture LNG receiving and re-gasification terminal. Through its subsidiary company BG Exploration and Production India Limited, Shell holds a 30% interest in, and is joint operator of, the Panna - Mukta oil and gas fields and the Mid and South Tapti gas fields (PMT fields).

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20.KARNATAKA MINISTER SHRI PRIYANK KHARGE ANNOUNCES GRANT WORTH RS 50 LAKH FOR START-UPS WITH A SOCIAL FOCUS AT SHELL ENERGY ENTREPRENEURSHIP CONFERENCE 2018

Sep 03, 2018

Shell E4 start-up hub's first cohort demonstrate energy and sustainability solutions at the conference

Bengaluru, September 3, 2018: Today, at the first Shell Energy Entrepreneurship Conference 2018, Shri Priyank Kharge, Minister for Social Welfare, Government of Karnataka, announced a grant worth Rs 50 lakh for start-ups with a strong social bent and working in rural development or rural well-being in the state. The conference organized by Shell E4, the company's start-up hub featured a unique gathering of energy focused start-ups, Venture Capitalists, Energy Experts, Academia. The day also served as the graduation event for Shell E4's first cohort of energy and sustainability start-ups. Launched in 2017, Shell E4 Start-up Hub aims to foster a vibrant ecosystem of energy entrepreneurs by bringing together talent, technology, capital and know-how to accelerate India's transition towards a sustainable energy future.

Earlier this year, Shell selected five start-ups– Detect Technologies, ION Energy, IoTrek, Trashcon and Ossus Biorenewables– that are working on a diverse range of solutions, including real-time pipeline monitoring, creating safer and smarter infrastructure and outdoor work sites, automating segregation of municipal solid waste, recovering green chemicals from waste water and building energy storage systems and infrastructure for electric vehicles. These start-ups are successfully integrating technologies like IoT and Artificial intelligence within their core products.

Shri. Priyank Kharge, Minister for Social Welfare, Government of Karnataka, the chief guest at the event is a champion of the thriving Bengaluru start-up ecosystem and spoke about Karnataka government's vision and commitment towards fostering the start-up ecosystem in India. In his keynote address, the minister said, "I would like to take this opportunity to announce that, to encourage more social innovations, any innovation that will be focused at rural development and well-being with a strong social impact, the Department of Social Welfare, Government of Karnataka, will be willing to support start-ups across the state with a grant of Rs. 50 lakh."

Speaking on the occasion, **Mr. Nitin Prasad, Chairman, Shell Companies in India**, said, "Shell is committed to be a trusted partner in India's growth story through its people, partnerships and innovations. Shell E4 furthers our commitment to nurture the innovation and entrepreneurial ecosystem in the country. We will continue to evolve Shell E4 to foster solutions that can help India access more and cleaner energy and drive sustainable growth. We wish each of the graduating start-ups the very best in their journey towards a sustainable future. We shall continue to liaison with them through Shell's alumni network to help them further develop and deploy their technologies at a larger scale."

The Demo Day also witnessed several panel discussions on Energy Entrepreneurship and Innovation, Future of transportation and mobility. In the discussion on Energy Entrepreneurship and Innovation, focus was primarily on the overall scenario of energy innovation in India with a focus on production and consumption of energy within the country. The speakers discussed the opportunity and challenges along with counterpoints and solutions for achieving sustainable energy security. Likewise, the discussion on investment in energy sector, saw panelists talk about what investors are looking at in energy sector along with possibilities of the investment funds planning to invest in energy. Additionally, the day also saw 'Speed Pitching', where a few other start-ups who were invited made instant, elevator pitches to the investors present at the event.

Mr. James Unterreiner, General Manager, Shell E4 Start-up Hub, said, "The strategic intent of Shell E4 is to accelerate India's transition to a sustainable energy future by becoming a major actor in the entrepreneurial ecosystem by linking talent, technology, capital and know-how for energy entrepreneurs in the country. The E4 incubator invests in the most promising start-ups to develop early insights in critical innovations and to build alignment and commitment with companies that we like to partner with. I congratulate the first cohort of Shell E4 and wish them well in their journey."

Located at Shell Technology Centre Bangalore, one of the company's three global innovation hubs, Shell E4 housed the E4 start-ups at a vibrant co-working space for six months. The start-ups were offered a seed funding of USD 20,000 each and access to:

- State-of-the-art testing and prototyping laboratories for product development and testing
- Bootcamps aimed at customer discovery and improving the product
- Top industry mentors and experts
- New markets and interactions with investors and other growth and funding opportunities

Shell in India

Shell is one of the most diversified international oil company in India's energy sector with over 7000 employees. It is a major private sector supplier of crude products, chemicals and technology to public/private sector oil companies. It maintains a significant presence in the country with its lubricants and retail businesses. Shell also has a technology center, a financial business operations center, an in-house global IT center and operates a joint venture LNG receiving and re-gasification terminal. Through its subsidiary company BG Exploration and Production India Limited, Shell holds a 30% interest in, and is joint operator of, the Panna - Mukta oil and gas fields and the Mid and South Tapti gas fields (PMT fields).

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21. SHELL'S MAKE THE FUTURE INDIA 2018 ACCELERATES CONVERSATION ON FUTURE OF MOBILITY

Dec 07, 2018

- Featuring Shell Eco-marathon- a competition challenging young engineers to design, build and drive energy efficient vehicles and;
- Announcing the India chapter of NXplorers, Shell's global program to support STEM education on display

Day 1 of Make The Future India 2018

The first edition of Make the Future India 2018, featuring the Shell Eco-marathon, kicked off today at the Madras Motor Race Track in Chennai. The occasion was graced by Hon'ble Minister P Thangamani, Minister for Electricity & Non-Conventional energy, Prohibition and Excise, Government of Tamil Nadu and Hon'ble Minister P Benjamin, Minister of State for Rural Industries including Cottage and Small Industries, Mr. Pilmore Bedford, British Deputy High Commissioner for South India and Mr. Nitin Prasad, Chairman, Shell Companies in India.

Flagged off by the minister, the festival brings together academia, government, school children, industry representatives and members of the public to showcase innovations in clean energy and give a glimpse into what the future of energy could look like. Attendees can experience bright energy ideas put into action through project demonstrations from students across the country.

Hon'ble Minister of State P Thangamani, said, "It is commendable to see what Shell has been doing to provide clean energy solutions in India. As we are facing the impact of climate change, it has become essential to look for ways that could reduce our dependency on diesel and petrol and can give us a sustainable future."

Nitin Prasad, Chairman, Shell Companies in India, said, "Shell Make the Future is a platform that encourages conversation, collaboration and affirmative action around the world's energy challenges. Endeavors like Make the Future are essential and may help find some solutions to meet the growing energy demand. Shell India stays committed to our ambition to power India's progress with more and cleaner energy solutions- through our people, partnerships and innovations- for India and the world. India has been part of the Shell Eco-marathon for eight years now and this year we have witnessed participation from close to 250 engineering students at the Shell Eco-marathon. We believe that these engineers define the future of mobility and can play an integral role in India's energy transition."

The inaugural ceremony featured the state-of-the-art Shell Eco-marathon, a global program and one of the world's longest-running student competitions that challenges bright student minds to design and build ultra-energy-efficient cars, and then put them to the test in competition. Teams put their self-built vehicles through a detailed technical and safety inspection before they are allowed on the Madras Motor Race Track to compete under different categories. With 247 students participating across 20 teams, the winning team of the Shell Eco-marathon competition stands to win a total prize money of INR 20 Lac across various categories.

In the Prototype category, contestants showcased futuristic vehicles with incredible aerodynamics. On the other hand, in the Urban Concept, students designed more conventional, roadworthy, energy-efficient vehicles aimed at meeting the real-life needs of drivers. The SEM student teams participating under both the categories can choose to run their vehicles under two possible engine types – Internal combustion - petrol, diesel & biofuel and Battery Electric - powered by hydrogen fuel cells or lithium-based batteries.

In the competition, teams attempted to prove the energy efficiency of their car with the speed and skill of their driver to see who can cross the finish line first on the least amount of fuel.

Nxplorers program

Announced at the Make the Future Festival, the NXplorers program is a global initiative to build critical thinking and complex problem-solving skills in school children in the age group of 14-19 years. It equips students with tools and skills necessary to address real-world issue of food-energy-water nexus. The effort is to make them positive agents of change for a sustainable future. Shell is currently implementing this program in 14 countries across the world.

Partnered with a specialized organization in education, Learning Links Foundation, the NXplorers program runs in schools where teachers and students learn the NXplorers methodologies and tools and engage in addressing real-world issues. The plan is to implement the program in almost 200 schools across states like Karnataka, Tamil Nadu, Maharashtra, and Delhi-NCR in the first year of its implementation. In the next three years, Shell aims to take NXplorers program to 2,60,000 students in over 3000 schools. During the three-year period, the educational program will also inspire young students, especially girls to take up STEM and related fields for higher education.

In the last six months, students have worked on several projects out of which the best four were put on display at the Experiential Zone. The projects on display included a smart irrigation device that can monitor the moisture content of the soil and turn on the water pump automatically whenever the moisture drops below a threshold value; Seedographer, a device that increases the resource use efficiency of seed sowing in agricultural fields. Also, on display was a smart drainage system that can divert wastewater from the storm drains, manholes and direct the same for agricultural purposes after passing through a purification process; last but not the least, a project that proposes to create energy from food waste through the process of anaerobic digestion.

Dicussions and debate on tomorrow's energy challenges

Parallel to the competition, panel discussions engaged auto experts, academicians, professionals from auto companies to talk about the transition to low-carbon energy, at the business forum. Deliberations focused on the changing scenario from fossil energy to electricity, the impact of the new emission standards on the automotive sector and Indian economy, developing future cities having enough resources to fulfill the energy demand and enabling energy-related entrepreneurs to succeed.

The first day of the festival took school-children, Shell's fuel station staff, industry partners, representatives from business, academicians among others on a journey to explore ideas and innovation, highlighting the future of energy. At the Experience Zone, state-of-the-art demonstrations like the world's first flat-pack truck, a CNG-powered scooter, and a waste-to-fuel technology - IH2 (Integrated Hydrolysis and Hydro conversion)- that converts non-food biomass feedstock such as wood, agricultural residues, algae, aquatic plants and cellulosic fractions of municipal waste – to BSVI grade were put on display. It also includes interesting projects designed by school children from Karnataka and Tamil Nadu.

Notes to Editor

About Make the Future India 2018

Held for the first time in India, Make the Future featuring Shell Eco-marathon, is a festival of ideas and innovation. It is a unique global platform for conversations, collaboration and innovations focused on world's energy challenges. In India, the event focuses on "Powering progress in mobility, together". The four-day event will feature bright energy ideas and solutions that address the global energy challenge: how to meet the energy demands of the future, while producing less CO2. Taking place at Madras Motor Race Track from December 6-9, 2018, the

event will host thousands of visitors, inviting them to experience the ideas, contribute their own and join the journey to an energy-efficient, low-carbon future.

About Shell Eco-marathon India

Shell Eco-marathon is a competition for students who are passionate about developing innovative mobility solutions. It challenges engineering, design, science and technology students to design, build and drive the world's most energy efficient vehicle. Shell Eco-marathon is a visible demonstration of Shell's commitment to help the world meet its growing energy needs in a responsible way by working together with students, partners and other stakeholders. Teams from colleges/universities across India will compete in an exciting head-to-toe race to see who has the most energy-efficient vehicle.

About the Business Forum

The Business Forum is a platform for industry partners, academicians and experts to deliberate on the exciting future of mobility. In a series of panel discussions, the transition to low-carbon energy is looked from the perspective of addressing the demand for more cleaner and greener source of energy in urban planning, the impact of adoption of new emission standards in the automobile sector and building an ecosystem to promote entrepreneurship in Indian universities, focusing especially on energy.

22. SHELL SHOWCASES THE GLOBAL VEHICLE TRUST 'OX' AT ITS MARQUEE EVENT MAKE THE FUTURE IN CHENNAI

Dec 08, 2018

Shell India launches "OX to India" - a potential mobility solution for accessible, efficient, all-terrain transportation in developing regions

Chennai, India: Focusing on bridging the mobility divide in India, Shell today unveiled the world's first 'flat-pack' truck –The OX - an all-terrain vehicle for reaching remote areas. The OX is a simple to maintain truck, suitable for the diverse and rugged Indian terrain of deep sands, steep hills, marshy lands, and steep river banks in hard-to-reach communities in developing regions. It is also the world's first flat-pack truck – it can be assembled from a flat-pack kit in less than 12 hours and transported in greater numbers to where it is needed more quickly.

Unveiled at the first edition of Shell's Make the Future festival in India, the OX truck is a global partnership between Shell and Gordon Murray Design (GMD) and the Global Vehicle Trust (GVT). It is an effort by Shell to empower communities living in the interiors of the country, by providing an effective transportation solution.

Nitin Prasad, Chairman, Shell Companies in India, said "Limited mobility restricts access to basic amenities in remote areas. Shell is eager to contribute to developing and promoting effective mobility solutions thereby improving the quality of life of people in these areas. The OX is a very promising technology having immense potential to broaden access to transport possibilities. We are pleased to partner with GMD and GVT and hope this versatile vehicle will be instrumental in transforming lives and overcoming daily accessibility challenges."

Highlights

- OX to India, showcases capability of vehicles by bringing all-terrain mobility to rural communities in developing countries
- Ox is lightweight and rugged; with simple maintenance; designed for self-assembly, supplied fully assembled or flat-packed for easy shipping
- Can carry a payload of 1,900kg including everyday necessities, medical supplies, building and agriculture materials

The flat-pack design makes OX the first-of-its-kind vehicle that is simple to maintain, having accessible components and fewer parts. It is ecologically sound, easy to manufacture, build and transport.

The lightweight OX originated from the vision of one man – Sir Torquil Norman, the founder of GVT, and is based on GMD's flexible iStream technology. It is specifically designed to carry a payload of 1900 kg or eight 44-gallon drums.

The design for the OX is nothing short of revolutionary, and the flat-pack format fundamentally changes the way a vehicle can be bought and transported, providing specific advantages to lead times and overall unit cost.

The second day of the Make the Future, featuring Shell Eco-marathon, also saw student teams competing on the track after passing a detailed technical inspection. The winning teams under different categories will be announced on December 9th and rewarded with cash prize of about INR 20 Lac.

Notes to Editor

About Make the Future India 2018

Held for the first time in India, Make the Future featuring Shell Eco-marathon, is a festival of ideas and innovation. It is a unique global platform for conversations, collaboration and innovations focused on world's energy challenges. In India, the event focuses on "Powering progress in mobility, together". The four-day event will feature bright energy ideas and solutions that address the global energy challenge: how to meet the energy demands of the future, while producing less CO₂. Taking place at Madras Motor Race Track, Chennai from December 6-9, 2018, the event will host thousands of visitors, inviting them to experience the ideas, contribute their own and join the journey to an energy-efficient, low-carbon future.

About Shell Eco-marathon India

Shell Eco-marathon is a competition for students who are passionate about developing innovative mobility solutions. It challenges engineering, design, science and technology students to design, build and drive the world's most energy efficient vehicle. Shell Eco-marathon is a visible demonstration of Shell's commitment to help the world meet its growing energy needs in a responsible way by working together with students, partners and other stakeholders. Teams from colleges/universities across India will compete in an exciting head-to-toe race to see who has the most energy-efficient vehicle.

23. SHELL'S MAKE THE FUTURE INDIA ENDS WITH TEAMS FROM VARANASI, DELHI AND VELLORE EMERGING WINNERS AT SHELL ECO-MARATHON

Dec 09, 2018

- Team DTU Supermileage clocks 154 km/l in the Internal Combustion Engine, Urban Concept category
- Team AVERERA from IIT-BHU achieves 362.5 km/kWh in the Battery Electric Prototype category

Chennai, India: The first edition of Make the Future India, featuring Shell Eco-marathon concluded today at Madras Motor Race Track, Chennai. The closing ceremony was graced by Sh. K Pandiarajan, Hon'ble Minister for Tamil Official Language and Tamil Culture, Government of Tamil Nadu and Indresh Kumar, Vice President Finance, Hydrocarbons – Shell Business Operations, Chennai. The hon'ble minister felicitated students from **Indian Institute of Technology – Banaras Hindu University, Delhi Technical University and VIT University** for building energy-efficient vehicles, that went farthest with the least amount of energy.

Congratulating the participating students at the Shell Eco-marathon, Sh. Pandiarajan remarked, "I am delighted to be a part of this mega event. It is fitting that Shell has chosen to host the Make the Future in this region. It is heartening to see that Shell is taking STEM (Science, Technology, Engineering and Mathematics) to schools and colleges. STEM is the success mantra which will give a competitive advantage to our country. The ideas developed by students here are also testimony to their entrepreneurial spirit. Today's entrepreneurs are born in colleges. We welcome these students to bring their ideas to Tamil Nadu, where a wealth of support infrastructure is available to incubate them."

In his address, Indresh Kumar said, "We are proud to see an extraordinary performance by student teams at Make the Future India. Through their dedication and perseverance, teams have proved their mettle at the first edition of Shell Eco-marathon India. Their exemplary work in building the ultimate energy-efficient vehicles, is a step towards our endeavor of addressing the world's energy challenges."

Shell Eco-marathon results

Team **DTU Supermileage** claimed victory in the Internal Combustion Engine (ICE) Urban Concept category by achieving a mileage of 154 km/l. This is the equivalent of driving from Chennai to Pondicherry on 1 liter of fuel.

Members of the team were delighted to top their category. They said "It's a proud feeling for all of us today. Months of hard work and sleepless nights have been invested in preparing our vehicle. We hope we can take this forward and achieve even better results the next year."

Team Averera from IIT-BHU achieved an astounding 362.5 km/kWh in the Prototype Battery Electric Category, which is the equivalent of driving from Chennai to Bangalore on a single unit of electricity. Members of the team said, "The feeling of accomplishment is amazing. Our project is a testament to team's hard work and perseverance. To participate and win in the first edition of Shell Eco-marathon in India is the icing on the cake."

The winning teams took home prize money totaling INR 20 Lacs.

On-track Awards

Teams were crowned the winners under different categories:

- **Team DTU Supermileage** from **Delhi Technical University** was named the winner in the ICE Urban Concept Category.
- **Team Eco Titans** from **VIT University** was named the winner in the ICE Prototype Category.
- Team **AVERERA** from **Indian Institute of Technology – Banaras Hindu University** was named the winner in the Battery Electric Prototype category

On-Track Awards

	Winner	Result
ICE Urban Concept	Team DTU Supermileage, Delhi Technical University	154 km/l
ICE Prototype	Team Eco Titans, VIT University	129.2 km/l
Battery Electric Prototype	Team AVERERA, Indian Institute of Technology – Banaras Hindu University	362.5 km/kWh

Off-Track Awards

Shell Eco-marathon is about more than winning on the track. Students are recognised for their technical innovation, design, safety and perseverance.

- Team AVERERA from Indian Institute of Technology – Banaras Hindu University was awarded the **Safety Awards**. Safety was effectively employed into the core of their design with impressive risk assessment studies. The team also displayed exceptional safety practices in their garage by maintaining a very orderly work environment free from avoidable hazards. The team also carried out travel risk assessment.
- Team Methodos from Government Engineering College, Barton Hill was awarded **The Jugaad Award (Technical Innovation)** for their use of bamboo for the body. Alternative materials that not only meets performance requirements but also consumes less energy during the lifecycle.
- Team AVERERA from Indian Institute of Technology – Banaras Hindu University won the **The Kahani Award (Communications)** for outstanding integrated communication approach for creating awareness and support for their team for Shell Eco-marathon India. The wide range of stakeholders they have reached out, their communications mix and use of multiple channels and platforms were both effective and innovative in meeting their objectives.

The Make the Future festival, which commenced on December 6, 2018, saw a series of activities. People from academia and government, school children, industry representatives and members of the public were taken on a journey to explore ideas and innovation on the future of mobility. It also saw the unveiling of the world’s first flat-pack truck – the OX. The festival also brought together industry partners and expert at the Business Forum to discuss the transition to low-carbon energy.

Notes to Editor

About Make the Future India 2018

Held for the first time in India, Make the Future featuring Shell Eco-marathon, is a festival of ideas and innovation. It is a unique global platform for conversations, collaboration and innovations focused on world’s energy challenges. In India, the event focuses on “Powering progress in mobility, together”. The four-day event will feature bright energy ideas and solutions

that address the global energy challenge: how to meet the energy demands of the future, while producing less CO₂. Taking place at Madras Motor Race Track from December 6-9, 2018, the event will host thousands of visitors, inviting them to experience the ideas, contribute their own and join the journey to an energy-efficient, low-carbon future.

About Shell Eco-Marathon India

Shell Eco-marathon is a competition for students who are passionate about developing innovative mobility solutions. It brought together 247 students from 20 student teams, challenging them to design, build and drive energy efficient vehicles. It challenges engineering, design, science and technology students to design, build and drive the world's most energy efficient vehicle. Shell Eco-marathon is a visible demonstration of Shell's commitment to help the world meet its growing energy needs in a responsible way by working together with students, partners and other stakeholders. Teams from colleges/universities across India will compete in an exciting head-to-toe race to see who has the most energy-efficient vehicle.

24. SHELL'S GLOBAL STEM EDUCATION PROGRAMME, NXPLORERS, COMES TO NEW DELHI

Dec 18, 2018

- 2,60,000 students across 3000 schools in India to explore issues and design solutions to solve real-life problems around food-water-energy

New Delhi: Shell brings its global Science, Technology, Engineering and Mathematics (STEM) education programme, NXplorers to New Delhi. Launched in the presence of **Shri Manish Sisodia, Deputy Chief Minister, Delhi**, in a programme attended by students, school principals, teachers and media at the Rajendra Prasad Sarvodaya Vidyalaya, President Estate, New Delhi, **NXplorers** has already reached over 30 schools in New Delhi. **NXplorers** is an endeavor by Shell to nurture young minds to design sustainable solutions to ease the pressure on food, water and energy supply using a unique combination of Systems Thinking, Scenario Planning and Theory of Change. The programme is being rolled out across four states and aims to reach 3000 schools and 2,60,000 students between 14-19 years of age by 2020 in India.

Launched in 2017, NXplorers is available in 14 countries including India, Brazil, Egypt, Nigeria Kazakhstan, Australia, Oman, Qatar, UAE, China, Brunei, Singapore, Philippines and Trinidad.

Speaking on the occasion, Chief Guest, Shri Manish Sisodia said, *"I congratulate Shell and Learning Links Foundation for launching the NXplorers initiative and giving an opportunity to children to identify problems and develop sustainable solutions. The programme is in line with our focus on providing quality educational and developmental opportunities to students of government run schools. We need to encourage students to think out of the box, think local and instill a thinking to challenge the existing and go beyond the textbook to find solutions beyond the obvious. We want to create a generation that is not just seeking jobs in the future but is empowered and capable to offer job opportunities for others. Let us shape young minds today to become the leaders of tomorrow."*

Mr. Nitin Prasad, Chairman, Shell Companies in India also added, "Food, water and energy systems that form the foundation of growth for India and other countries across the world are tightly interlinked. Water is needed to extract energy and generate power; energy is needed to treat and transport water; and both water and energy are needed to grow food. This creates a critical nexus or a series of connections. Shell **NXplorers** aims to instill complex and creative thinking skills in young Indian minds to bring about a positive change to our country's food-water-energy nexus. Students **explore** issues and causes, **create** actions and **design** solutions to power sustainable growth for India and the world. We are grateful to the government of Delhi for giving us the opportunity to partner with us for this programme and we aim to increase participation of the schools in the region in the next three years."

Programme Highlights:

- Delivered mainly at government and municipality schools in its first year with special focus on girl students
- A facilitated programme where teachers and students learn about and engage in real world issues through three stages:
 - **Explore**, where students identify the issues, its causes, and ways to dig deeper into the issue
 - **Create**, where students identify the actions needed to bring about the change, and envision the preferred future
 - **Change**, students design the roadmap to reach the preferred future
- Learning Links Foundation (LLF), a non-profit organisation dedicated to enhancing the quality of education, promoting innovation and developing future ready citizens has been selected to implement the NXplorer programme in India

- Some of the projects being carried out by students include: biogas production from the local food/agricultural waste, smart drainage system using algae and bacteria, 'seedographer' that improves resource use efficiency in agricultural farms, smart irrigation system that can help farmers to optimize water usage.

About Shell in India:

Shell is one of the most diversified international energy company in India with over 7000 employees, 200,000 retail customers and a 250 - strong distribution network. It brings world-class energy solutions across traditional, new energies and its derivatives to individuals and enterprises. Shell's Lubricants business is active across the full lubricant supply chain - manufacturing base oils, blending base oils with additives to make finished lubricants, and distributes, markets and sells lubricants in over 100 countries. Shell's retail presence in India spans five states – Karnataka, Tamil Nadu, Telangana, Maharashtra and Gujarat. Shell operates a LNG re-gasification terminal at Hazira in a joint venture with Total. Through its subsidiary, BG Exploration and Production India Limited, Shell holds a 30% interest in, and is joint operator of the Panna - Mukta oil and gas fields. India is home to Shell's world class centres carrying out operations, IT and innovation mandates in Bangalore and Chennai. The company is nurturing a vibrant ecosystem in India to accelerate energy innovations with the Shell E4 programme for startups, Shell Eco-marathon and investments in new energy companies like Husk Power. Shell remains committed to making positive contributions to the communities in which we operate through NXplorers, Access to Energy and Road Safety across India. Follow @shell_India @makethefuture @shell_ecomar to know how we are redefining the energy space.

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25. SHELL INVESTS IN CLEANTECH SOLAR

Dec 19, 2018

Shell has reached a conditional agreement to acquire 49% of Cleantech Solar.

[Learn more](#)

26. CAUTIONARY NOTE

The companies in which Royal Dutch Shell plc directly and indirectly owns investments are separate legal entities. In this release “Shell”, “Shell group” and “Royal Dutch Shell” are sometimes used for convenience where references are made to Royal Dutch Shell plc and its subsidiaries in general. Likewise, the words “we”, “us” and “our” are also used to refer to subsidiaries in general or to those who work for them. These expressions are also used where no useful purpose is served by identifying the particular company or companies. “Subsidiaries”, “Shell subsidiaries” and “Shell companies” as used in this release refer to companies over which Royal Dutch Shell plc either directly or indirectly has control. Entities and unincorporated arrangements over which Shell has joint control are generally referred to as “joint ventures” and “joint operations” respectively. Entities over which Shell has significant influence but neither control nor joint control are referred to as “associates”. The term “Shell interest” is used for convenience to indicate the direct and/or indirect ownership interest held by Shell in a venture, partnership or company, after exclusion of all third-party interest.

This release contains forward-looking statements concerning the financial condition, results of operations and businesses of Royal Dutch Shell. All statements other than statements of historical fact are, or may be deemed to be, forward-looking statements. Forward-looking statements are statements of future expectations that are based on management’s current expectations and assumptions and involve known and unknown risks and uncertainties that could cause actual results, performance or events to differ materially from those expressed or implied in these statements. Forward-looking statements include, among other things, statements concerning the potential exposure of Royal Dutch Shell to market risks and statements expressing management’s expectations, beliefs, estimates, forecasts, projections and assumptions. These forward-looking statements are identified by their use of terms and phrases such as “anticipate”, “believe”, “could”, “estimate”, “expect”, “goals”, “intend”, “may”, “objectives”, “outlook”, “plan”, “probably”, “project”, “risks”, “schedule”, “seek”, “should”, “target”, “will” and similar terms and phrases. There are a number of factors that could affect the future operations of Royal Dutch Shell and could cause those results to differ materially from those expressed in the forward-looking statements included in this release, including (without limitation): (a) price fluctuations in crude oil and natural gas; (b) changes in demand for Shell’s products; (c) currency fluctuations; (d) drilling and production results; (e) reserves estimates; (f) loss of market share and industry competition; (g) environmental and physical risks; (h) risks associated with the identification of suitable potential acquisition properties and targets, and successful negotiation and completion of such transactions; (i) the risk of doing business in developing countries and countries subject to international sanctions; (j) legislative, fiscal and regulatory developments including regulatory measures addressing climate change; (k) economic and financial market conditions in various countries and regions; (l) political risks, including the risks of expropriation and renegotiation of the terms of contracts with governmental entities, delays or advancements in the approval of projects and delays in the reimbursement for shared costs; and (m) changes in trading conditions. All forward-looking statements contained in this release are expressly qualified in their entirety by the cautionary statements contained or referred to in this section. Readers should not place undue reliance on forward-looking statements. Additional risk factors that may affect future results are contained in Royal Dutch Shell’s 20-F for the year ended December 31, 2016 (available at www.shell.com/investor and www.sec.gov).

These risk factors also expressly qualify all forward looking statements contained in this release and should be considered by the reader. Each forward-looking statement speaks only as of the date of this release, February 26, 2018. Neither Royal Dutch Shell plc nor any of its subsidiaries undertake any obligation to publicly update or revise any forward-looking statement as a result of new information, future events or other information. In light of these risks, results could differ materially from those stated, implied or inferred from the forward-looking statements contained in this release.

We may have used certain terms, such as resources, in this release that United States Securities and Exchange Commission (SEC) strictly prohibits us from including in our filings with the SEC. U.S. Investors are urged to consider closely the disclosure in our Form 20-F, File No 1-32575, available on the SEC website www.sec.gov.