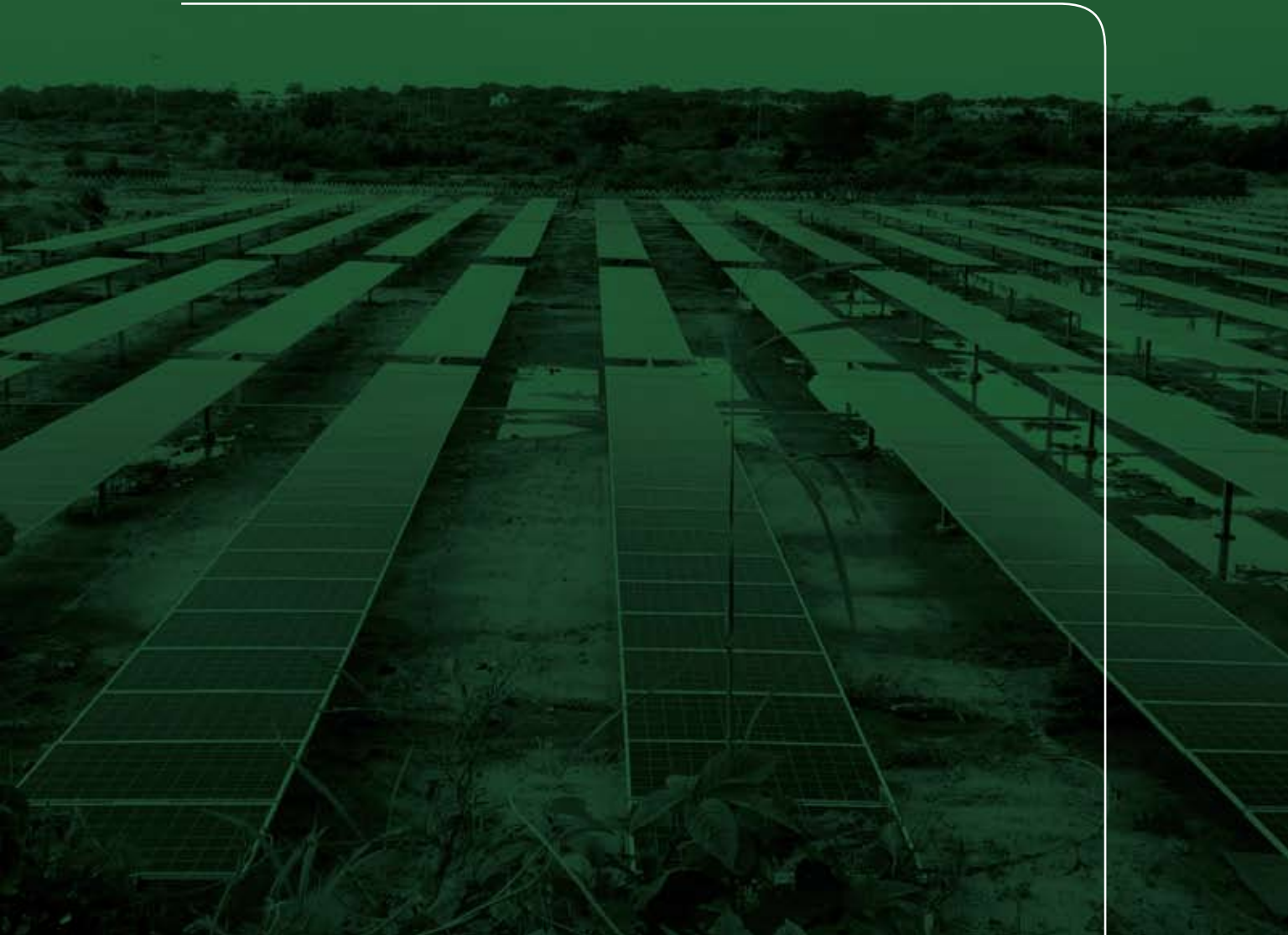


# ENVISIONING **ENVIRONMENTAL SUSTAINABILITY**



# ENVISIONING ENVIRONMENTAL SUSTAINABILITY



OUR PHILOSOPHY  
Respect for the Planet

Environment management practices are vital at all levels of business operations. Although we have a greater impact on the environment by way of our operations, we are committed to reduce our footprint as much as possible by continuous improvement in our manufacturing processes and value chain.

Apart from the adherence to legal statutory laws, we have periodic audits and risk assessments to ensure maximum efficiency and minimum emissions. The last few years we have worked hand in hand with our internal and external stakeholders, for spreading environment awareness and promoting conservation of the environment.

## TKM ENVIRONMENTAL POLICY 2017

*With our policy, we aim to create both environmental and societal value by putting environmental protection at the core of our business operations. A new dimension of inclusive growth in the policy drives environment protection at all business fronts from all our stakeholders.*

*Inspired by Toyota's vision 2050 and to fulfill the requirements of new version of International Standard for EMS, ISO 14001:2015, TKM's Environmental Policy was revised and made effective from May, 2017.*

As a responsible organization, we at TKM firmly believe in the philosophy of **"Respect for the Planet"**. Also understanding the environmental threats, posing the industry and mankind, the **"Toyota Environmental Challenges 2050"** forms the base of the mid to long term commitment towards Environmental Protection. Hence, we reaffirm our commitment to contribute to the society by ensuring environment protection throughout life cycle of our Products, Operations and Services.



#### To realize our commitment, we shall aim to:

- Quantify and reduce Green House Gas emissions across the value chain and life cycle, by promoting cleaner technologies and processes
- Conserve water resources with the objective of achieving water neutrality
- Optimize material usage, minimize waste and improve recyclability
- Look beyond environmental compliance obligations and realize the real intent of preserving the environment
- Promote biodiversity conservation and support community environment initiatives

TKM commits to engage with all stakeholders (employees, suppliers, dealers, customers, contractors, community), to create eco consciousness, and to motivate and inspire them to achieve environmental sustainability. We shall strive to achieve these objectives to realize our dream of ***“Living in Harmony with Nature”***.

We have consistently achieved 100% Toyota Global EMS conformance since, FY 2012-13, including FY 2016-17

### TOYOTA GLOBAL EMS

Toyota Global EMS defines the corporate directives on conservation and protection of environment that governs the business operations of all Toyota affiliates worldwide. The yearly EMS evaluation is carried out by our Regional Headquarters, Toyota Motor Asia Pacific [TMAP], Thailand. An internal evaluation system with refined KPI tree is established for each shop to measure the effectiveness of EMS.

### TRANSITION FROM ISO 14001:2004 TO ISO 14001:2015

Since, 2001, we have used ISO 14001 as a tool to improve our environmental performance and comply with applicable legal requirements. Recertified in 2015, the scope of the certification extends to all our regional facilities.

We are currently working to update our environment management system to achieve conformity with the new version of ISO 14001:2015 standard.

### ENSURING ENVIRONMENT LEGAL COMPLIANCE

‘The internal compliance limit at TKM is 20% more stringent than the applicable regulatory standards’

Adhering to all applicable regulations and compliances is a standard practice at TKM and we have always ensured 100% compliance to all statutory requirements.

A quarterly review with the top management takes place once to discuss the achievements, challenges faced and strategic directions with respect to legal compliance (new regulation implementation, if any) for the relevant stakeholders. A centralized environment group translates the directions of the top management and is communicated

to the relevant stakeholders to ensure conformance with the latest regulations.

Apart from the periodic reviews, the efficient online and offline tools such as LCMT, comprehensive legal compliance system provide multilayer monitoring of all the processes from shop level to corporate level and update the real time legal compliance status to the top management.

## PERIODIC MONITORING OF NEW REGULATIONS

To stay at pace with the dynamic regulatory changes, we engage with experts from statutory bodies to advise us on the latest regulations and changes in the existing regulations.

Upon understanding the change and applicability of the regulation, an action plan is derived and communicated to the relevant stakeholders. As part of

the implementation plan, we conduct various awareness sessions and workshops for our suppliers and vendors to understand the actual requirement of the new regulations. As a result of these sessions, TKM is able to acquire deeper understanding of new legal regulations and in turn has been able to implement all the requirements.

## FINES AND PENALTIES

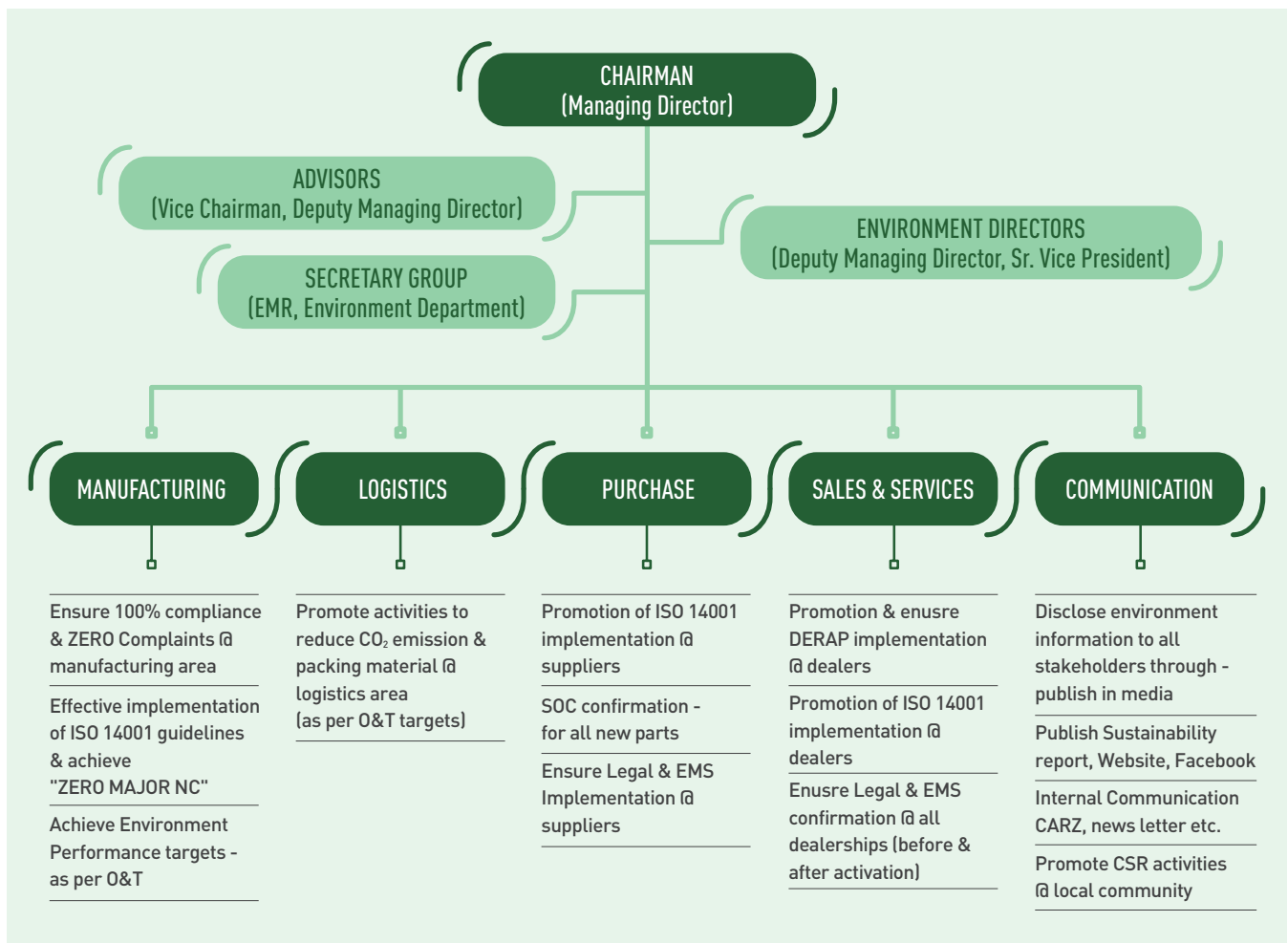
With our proactive and consistent environmental performance, we have always complied with all the laws of land. We have not received any fines or penalties for non-compliances till date.

## CORPORATE ENVIRONMENT COMMITTEE

The committee is constituted to review the environment and sustainability practices and provide strategic directions to achieve company's targets. It also drives seamless integration of EMS into daily management at shop floor.

Once in four months, the Chairman reviews the progress of environment activities at each sub-committee and provides directions. The EMR coordinates with the sub-committees to implement the direction. The Environment team

updates the operational requirements to the relevant stakeholders and conducts regular audits at shop floors in accordance with Environment Assessment System.



# ENDEAVORING ENVIRONMENT POSITIVE FOOTPRINT



## THE KEY HIGHLIGHT: TRANSFORMATION OF PRODUCTS AND PROCESSES

*We have always strived to be at pace with the changing market conditions and customer preferences with technological innovations. As Innovations are market anchors, we are rapidly moving ahead by bringing in innovations in products and production processes. Over the years, relentless efforts have gone into the creation and enhancement of and the all new Fortuner and Innova to Innova Crysta which has stood No.1 in its segment for more than a decade now.*

*The changes in the body design of our new products, has led to changes in the resource consumption patterns, manufacturing plant layout, production processes and equipment.*

*Even though the brand new design and technical advances in our new vehicles is impressive from customer centric perspective; we are consistently striving to address the dual natured (positive and negative) environmental implications caused by the technological interventions in manufacturing.*

*The following chapter discusses our approach and strategy to enhance our environmental performance in the coming years.*





# ADDRESSING CLIMATE CHANGE



To realize the 'below 2 degree' goal at COP21, Government of India [GoI] with its' National Solar Mission 2022, is all set to establish India as a Global Leader in Solar Energy by setting a target of in generating 175 GW Solar power by 2022. As a responsible corporate, we believe that it is our obligation to do our sincere contribution towards nation's goal.

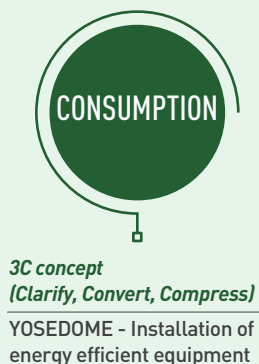
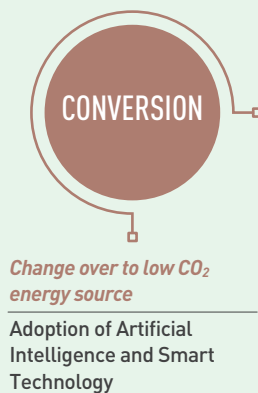
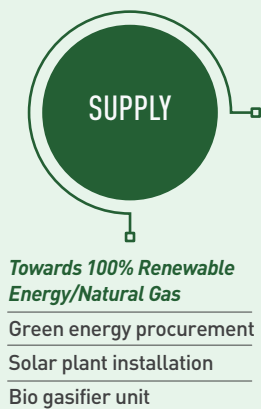
We are recognized as 'MODEL PLANT' for our achievements in Toyota Environment Challenge 3 amongst Toyota Asia Pacific affiliates.

## TOWARDS A LOW-CARBON SOCIETY

Energy efficiency and conservation is critical to maintain company's competitiveness in the present scenario of increasing energy demands and raising environmental issues.

Our low-carbon strategy focuses on reduction in procurement and investment in renewable energy sector, energy conversion for improved efficiency and introduction of energy efficient processes and systems to reduce energy consumption.

### OUR APPROACH :



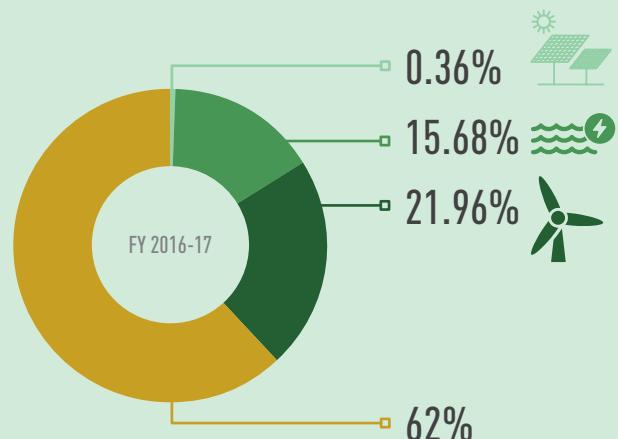
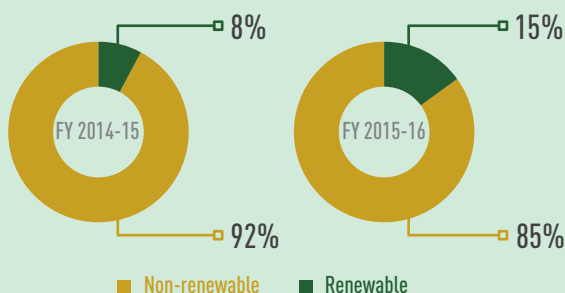
Presently we have procured 38% of our energy demand from renewable sources.

We aspire to meet approximately 50% of our total energy demand by renewable sources by 2020.

## SUPPLY

### GREEN ENERGY PROCUREMENT

Renewable Energy Consumption



\*These figures include the total energy procured for production and non-production areas of TKM manufacturing site at Bidadi.

IN ALIGNMENT WITH THE

## NATIONAL SOLAR MISSION 2022

**2.7 MW**  
ROOF TOP SOLAR

**38.5**  
LAKH UNITS

**31.57**  
LAKH CO<sub>2</sub> OFFSET



**280 kg/month**  
REDUCTION IN LPG CONSUMPTION



**0.5 MW**  
GROUND MOUNT SOLAR



### ECO - FRIENDLY ENERGY SUPPLY

With bio-methanization technology, the wet food waste is treated and transformed into methane rich bio-gas and bio-manure. The bio-gas is utilized as fuel by an in-house canteen and the bio-manure is used for gardening purposes.

### CONVERSION

We aim to improve the operational efficiency by energy transformation from one form to another form through continuous improvements. To realize this, few of the initiatives such as:

- Adoption of reverse refrigeration system
- Optimization of centralized control of chillers
- Replacement of CFLs with LEDs.
- Adoption of Smart AC

### CASE STUDY

#### *Adoption of reverse refrigeration system*

The reverse refrigeration system (heat pump technology) was implemented at our utilities. The system uses heat pumps to vaporize the liquid LPG instead of the electric heaters. This has reduced the electricity consumption and in turn reduced the CO<sub>2</sub> emissions by approximately **250.26 MT/annum**.

## CASE STUDY

### Optimization of Electro Deposition oven

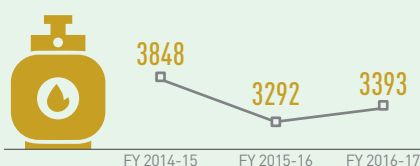
Optimization of the Electro Deposition (ED) oven utilization at the painting operations with respect to the production loading pattern was taken up to avoid dissemination of excessive heat to the surrounding non-production areas. The ED oven temperature was optimized and the high speed air curtains were installed to prevent the heat losses. This improved the efficiency of both electricity and LPG consuming equipment and has reduced CO<sub>2</sub> emissions by 534.7 MT/annum.

## CONSUMPTION

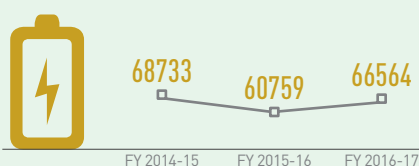
We are managing our consumption by controlling and reducing our daily energy consumption through continuous improvements in the operation process through kaizens.

### CONSUMPTION TRENDS

LPG Consumption, MT : (Scope-1)



Electricity Consumption, MWh : (Scope-2)



\*The coverage of the data is limited to the manufacturing operations of TKM, Bidadi plant

In the due course of the reporting period, the direct energy consumption for the production of the all new Innova Crysta and Fortuner at our manufacturing facility, led to increased electricity load as compared to the previous Financial Year.

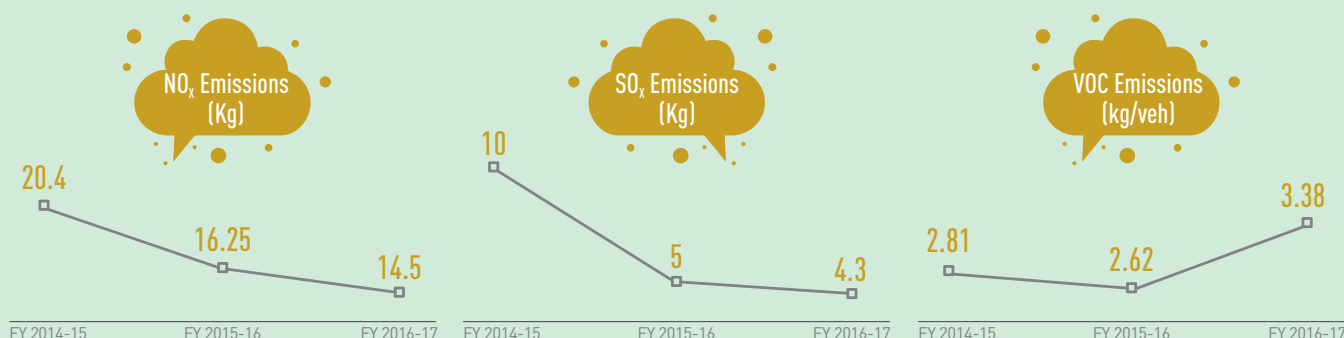
*Although there is an increase in the electricity load, with implementation of numerous kaizens of varying impacts by our Team Members [TMs] helped the company to restrict the electricity load increase to a mere 5%.*

## AIR QUALITY

Vehicle production leads to the emission of GHG gases like sulfur oxides (SO<sub>x</sub>), carbon monoxide (CO), nitrogen oxides (NO<sub>x</sub>), and particulate matter. Solvents like volatile organic compounds (VOCs) are also emitted from the automobile

painting process. We monitor the pollutant levels on a monthly basis and maintain our emissions into the ambient air within our internal permissible limits which are 20% more stringent than the applicable local and national regulations.

**TKM stands as a benchmark for other Toyota affiliates as it stands No.1 in Asia Pacific for reduced VOC emissions.**

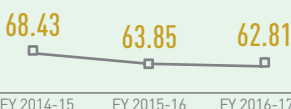


### EMISSION TRENDS

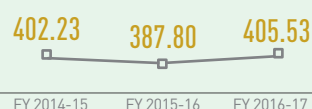
The introduction of new products has led to changes in specifications; there has been increase in resource consumption which will be optimized in the due course of time.



Scope-1 (Emissions kg/veh)



Scope-2 (Emissions kg/veh)



\*The coverage of the data is limited to the manufacturing operations of TKM, Bidadi plant

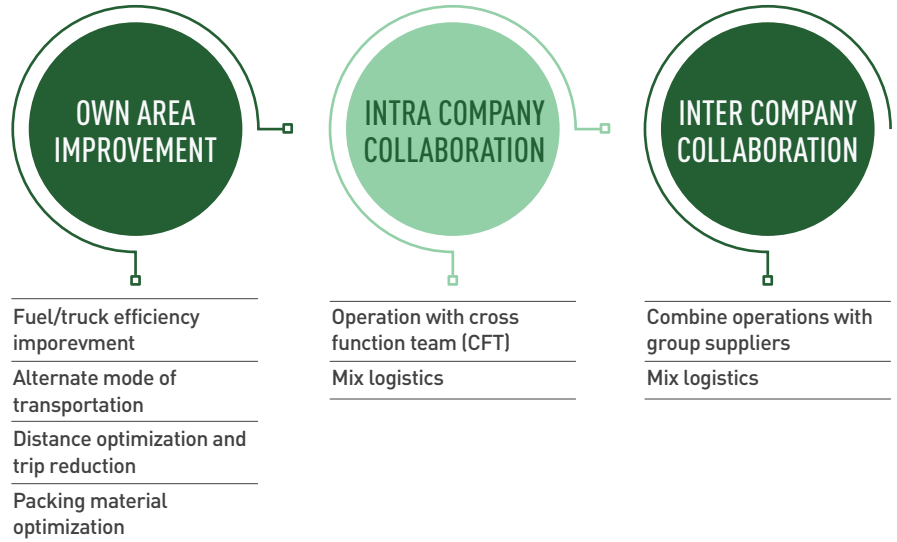


## LOGISTICS



*As logistics have wider environmental implications due to their fuel consumption and emission patterns, our Logistics team is focusing on mix logistics, logistic route optimization and packing material improvements to reap both economic and environmental benefits in freight transport operations.*

### OUR APPROACH



### CASE STUDY

#### Truck Loading Efficiency Improvement

Utilizing the available space plays an important role in increasing the efficiency of the vehicle. Keeping this in mind, our transportation vehicles were checked for the efficient space utilization. The available free space was enhanced to increase the box quantities per load. This has led to increase in truck efficiency from 64% to 77% thereby reducing 2 vehicle trips/day and cutting down the CO<sub>2</sub> emissions by 0.145 MT/annum.

#### Mix logistics with TKM suppliers (Suppliers- TKAP/TBI)

As suppliers at Delhi, Pune and Chennai, contribute to 80% of CO<sub>2</sub> emissions, we have partnered with our TKM group vendors (Toyota Kirloskar Auto Parts and Toyota Boshoku India), Spare parts team and OEM providers to implement mix logistics for our far distant suppliers by enhancing truck type and volume combination frequency amongst all four entities. This has resulted in reduction of 4 trucks /day and curbed CO<sub>2</sub> emissions by 1.49 MT/annum.

#### Curbing CO<sub>2</sub> emissions by enhancing vehicle efficiency

As a manufacturing firm, we have suppliers and dealerships, pan India. It was observed that the trucks used for freight transport from TKM premises to the dealerships took a round trip and had no return load. In this regard, the long distance routes (>900km) were mapped and identified the routes with no return load.

After deliberations with our transportation service providers, a study was carried out to find the external source for return load delivery. This led to the conversion of round trip vehicles to bill only for one-way, facilitating a mutual benefit to us as well as our service providers. This helped us reduce our carbon footprint by 821MT/annum.

# VALUING NATURAL RESOURCES



## WATER CONSERVATION

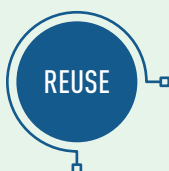
Water Crisis is considered as one of the key risks affecting the business operations on a global scale. While India is facing the water crisis, and with ever looming water scarcity in Karnataka, we at TKM have always strived to conserve water.

Over the years, we have proactively promoted comprehensive reduction of fresh water consumption with 3R concept by rolling out a range of measures in manufacturing processes to optimize and minimize our water footprint.

### OUR APPROACH :



**YOSEDOME - Lean Manufacturing**  
Kaizens

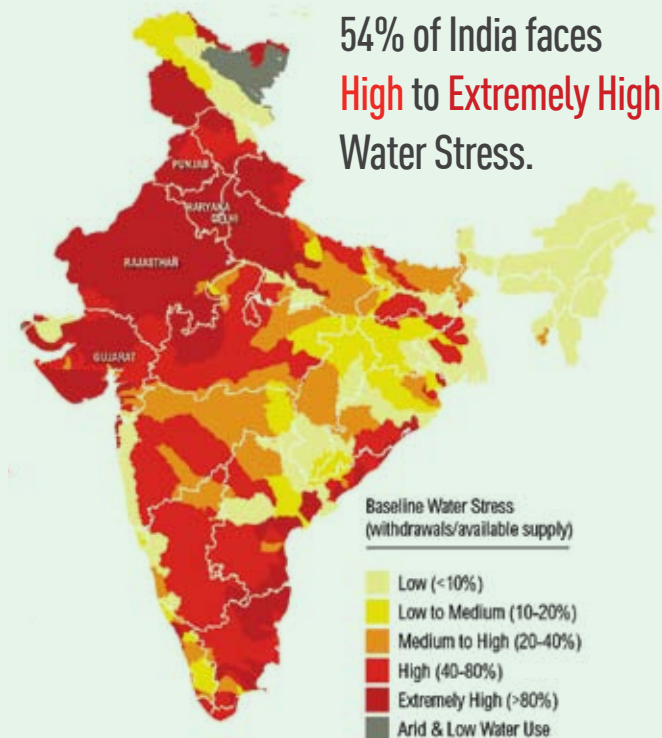


**Efficient use of water**  
Rainwater harvesting  
'Zero discharge' outside premises



**Wastewater treatment**  
Utilize MBR and RO water for manufacturing

Optimisation of water consumption involving the team members for 'YOSEDOME' - Lean Manufacturing concept has been taken up. This has eventually contributed to approximately 40% reduction in water consumption.



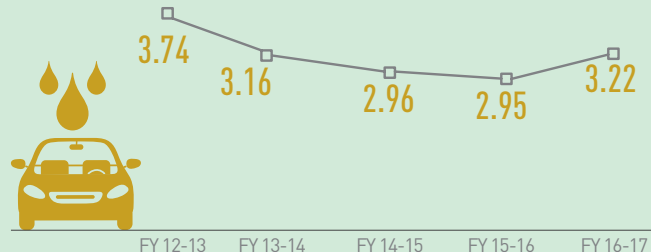
Source: World Resource Institute

### PURCHASED FRESH/RIVER WATER CONSUMPTION IN MANUFACTURING

Purchased Fresh Water Consumption m<sup>3</sup>/veh



Water Reduction m<sup>3</sup>/veh



**31%  
REDUCTION IN WATER  
CONSUMPTION**

\*The coverage of the data is limited to the manufacturing operations of TKM, Bidadi plant

## RAINWATER HARVESTING

A rain water harvesting structure with a storage capacity of 25000 m<sup>3</sup> is constructed to collect the total surface run-off and roof top water. The collected water is processed and reused in the production process. Further to this, an additional rainwater harvesting pond of capacity 24,000 m<sup>3</sup> is being initiated as a part of Eco Zone project inside the TKM premises.



**24,000 m<sup>3</sup>**  
NATURAL RAINWATER HARVESTING  
POND AT ECO ZONE



**25,000 m<sup>3</sup>**  
RAINWATER HARVESTING POND

We are recognized as 'MODEL PLANT' for our achievements in Toyota Environment Challenge 4 amongst Toyota Asia Pacific affiliates.



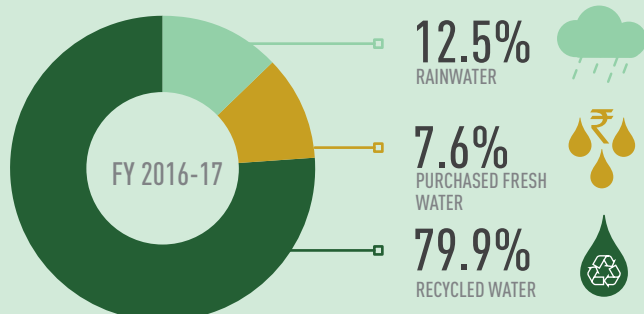
## WASTEWATER TREATMENT

The industrial effluent is treated in the Combined Effluent Treatment Plant [CETP] followed by Membrane Bio Reactor [MBR] and Reverse Osmosis [RO] technologies inside our premises.

Presently 63% of the treated effluent is recycled back into the manufacturing and the rest is of treated effluent is reused inside premises for irrigation and dual plumbing systems. In line with the philosophy of 'zero discharge', we do not discharge any treated effluent outside our premises.

**63%**  
OF THE TREATED EFFLUENT  
IS RECYCLED BACK INTO  
THE MANUFACTURING

### Specific Water Consumption Details



## ZERO LIQUID DISCHARGE FROM MANUFACTURING FACILITY

**92.4%**  
MANUFACTURING WATER DEMAND IS MET  
BY RAINWATER AND RECYCLED WATER

**31%**  
REDUCTION IN OVERALL SPECIFIC WATER  
CONSUMPTION

# ASIA PACIFIC CONFERENCE ON CO<sub>2</sub> REDUCTION

The two day conference hosted by TKM and TKAP, served as a platform for all Toyota affiliates to learn and share directions, strategies and best practices to achieve our Environmental Challenges 3, 4 and 6.

## CHALLENGE 3

Plant Zero CO<sub>2</sub> Emissions Challenge

Energy efficient operations through daily kaizen, shop by shop activities to strengthen the engineering were discussed. Also, the development and sourcing of clean and renewable energy were recommended.

## CHALLENGE 4

Challenge of Minimizing and Optimizing Water Usage

Smarter and efficient water utilization for manufacturing, water conservation best practices, activities to get alternative sources and water recycling and actions to improve treatment capabilities were discussed

## CHALLENGE 6

Challenge of Establishing a Future Society in Harmony with Nature

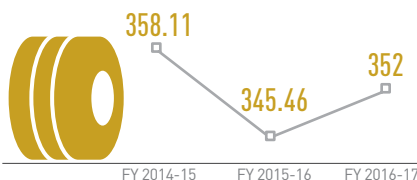
To ensure best efforts to sustain and further improve the habitat, environmental awareness of employees and the community on biodiversity conservation were discussed. Creation of strong collaboration among all our stakeholders was recommended.

## MATERIAL CONSUMPTION

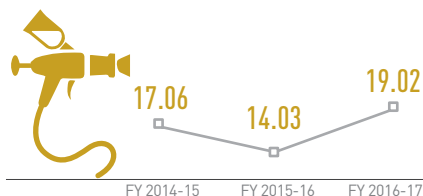
Natural resources drive economic development. With the present trends of accelerating resource consumption and over-exploitation of natural resources, we believe in using the available resources judiciously and minimizing the waste with the 3R concept.

### RESOURCE CONSUMPTION TRENDS

Steel Consumed in Kg/veh



Paint Consumed in Kg/veh



\*The coverage of the data is limited to the manufacturing operations of TKM, Bidadi plant

The introduction of new products has led to changes in specifications; there has been increase in resource consumption which will be optimized in the due course of time.

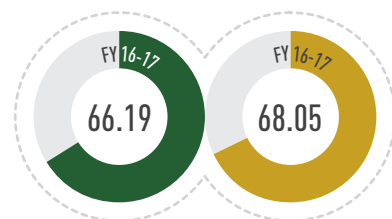
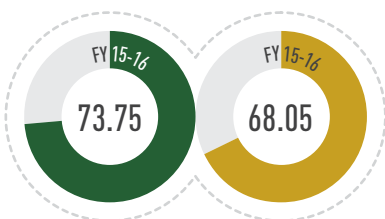
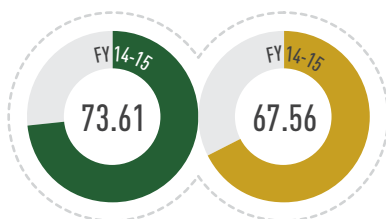
## MAXIMIZING STEEL UTILIZATION

In order to reduce the CO<sub>2</sub> emissions throughout its lifecycle, we are taking steps to maximize the steel yield and minimize the wastage by identifying

and implementing kaizens. We have established a special task force involving steel supplier, blanking vendor and non-automotive vendors who use scrap steel

as a raw material. The primary objective of the CFT is to maximize the utilization of steel thereby reduce the dependency on the virgin raw material.

Steel Yield Ratio in %



■ Plant 1 ■ Plant 2



## WASTE MANAGEMENT



As an automobile manufacturing firm, we generate significant hazardous and non-hazardous wastes. These wastes are sent to authorized vendors approved by Karnataka State Pollution Control Board. We are continuously striving to reduce waste generation with 5R- concept of Reduce, Reuse, Recycle, Retrieve and Refine, to achieve 'zero waste to landfill' goal as per Toyota Earth Charter.

*We are continuously working towards minimizing our resource consumption and reducing waste by increasing the shelf life of the automobile parts, usage of eco-friendly materials in our products and services and eliminating the use of 'Substances of Concern' [SoC] from the operations. Further, we are practicing and promoting reduction and reclamation of packing materials to reduce the use of virgin materials throughout our value chain.*

### WASTE GENERATION FY 2016-17



Hazardous Waste

1,064.25 MT



Non-Hazardous Waste

23,591 MT

### CASE STUDY

#### Returnable packaging

The import parts obtained in the carton boxes inside the returnable modules were replaced by returnable plastic boxes. This helped us reduce waste by 9 tons/year, thereby cutting down the CO<sub>2</sub> emissions by 12.24MT/ annum.

#### Standardizing packing material

The corrugated boxes used for packing wind shields were replaced by compact returnable dolly's which led to efficient space utilization and complete waste elimination from of corrugated boxes at the dealerships. This has resulted in reduction of volume by 1.14m<sup>3</sup> and reduced CO<sub>2</sub> emissions by 40MT/annum.

#### Reduction in paint sludge moisture

As an eco-friendly alternative to landfilling, the paint sludge formed during the paint process is sent out for co-processing to cement industry. As the sludge contained high moisture, the sludge was dried in solar sludge drying yard for 5-6 days. This led to 40-50% moisture reduction resulting in sludge volume reduction by 101 MT/annum.

## IN HARMONY WITH NATURE



*Environment Conservation is inherent to Toyota culture. With our vision, philosophy and guiding principles, we are focused on achieving harmony between our manufacturing operations and nature. To bring about a real change, we*

*strongly believe that community involvement plays a vital role. Keeping this in mind, we have expanded our green umbrella to other community driven ventures and developed Eco-CSR roadmap to promote positive environment action.*



## GREENING THE SCAPE

Initiated in the year 2009, our afforestation concept is based on Dr. Akira Miyawaki's method of restoration and reconstruction of forests. Under this, the potential native vegetation, planting of native species helps in the growth of forest at the rate of 1m/year, thereby creating biodiversity and food chain.

As per the regulatory requirements, area 144 acres (1/3rd of total land area)

is reserved for green belt. Taking a step ahead we have developed theme based forests, by creating an ecosystem of native, rare and endangered species, timber yielding plants, medicinal and aromatic plants, forests for non-timber forest produce and edible fruit yielding plants etc.

***We are successful in sequestering tons of carbon every year with the afforestation drive inside our premises.***

Till date, more than 2,35,000 saplings are planted inside the green belt area and around 30,000 saplings are planted outside TKM. We further aim to create ex-situ conservation of various native species which are listed in IUCN's Red list.



## BIODIVERSITY AT TKM

As we are located in an industrial area, there are no ecologically sensitive areas surrounding the manufacturing site. Although, no habitats changes are clearly attributed to our operations, we engaged with biodiversity experts to understand the species composition and its distribution within 10 km radius around TKM premises. The survey was conducted during all 4 climatological season in the region and the results are stated below.

### WE HAVE:

**133**  
species of plants  
inside our premises belonging to 105 genera and 36 families

**69**  
species of plants  
have medicinal properties

**44**  
species of birds

**38**  
species of butterflies

**9**  
species of reptiles

**6**  
species of mammals



Going forward, we plan to take scientific assessment of our biodiversity to understand the quantitative and qualitative changes we are creating on local ecosystem to make better biodiversity management plans to create healthy and safe habitat for flora and fauna.



Initiated in 2015, Green Me was conceptualized with a prime focus of sensitizing children on environment aspects. Today, Green Me has evolved into an integrated

Environment education program involving our top management, employee volunteers, education department, government schools and local community of Ramanagara district.

## GREEN ME THEMES



## OUR GREEN HEROES

Our employee volunteers are driving the progress of Green Me by practical implementation of Green Initiatives in our target schools.



## CHILDREN – THE HARBINGERS OF CHANGE

Considering the present scenario, it is vital to inculcate environmental positive actions in children at a tender age and hence, we believe children as our major stakeholders in creating a green difference.



Community awareness campaigns on eco-friendly festival celebration



Practical exposure on environment aspects, promotion of cleanliness and establishment of kitchen gardens at target schools

### GREEN ME PHASE I

- 20 Govt. Primary schools
- 900+ school children
- 60 baseline surveys
- 38 action plans
- 19 projects
- 15 community campaigns

### GREEN ME PHASE II

- 30 Government schools
- 1600+ school children
- 1200 hours environment knowledge improvement sessions
- 60 outdoor activities
- 30 video shows
- Green initiative implementation in all 30 schools
- TKM plant visit for industrial environment management exposure to 210 government school children and teachers

### Gearing up with Green Me Phase III

- 30 Govt. Primary schools
- 5 Govt. High schools
- 5 Villages





*Plantation at Eco Zone*

## ECO ZONE - AN OUTDOOR ENVIRONMENT LEARNING CENTER

To strengthen 'Green Me' Program further, an outdoor Environment learning center 'Ecozone' was conceptualized. Ecozone is planned to serve as a knowledge sharing platform to provide practical exposure on Toyota's efforts and environmental concepts to all our stakeholders including TKM employees, business partners and community.

It consists of 11 varied theme parks on Toyota's best practices and value, Water, Energy, Biodiversity, Pollination and Timeline [evolution] park.

The project area is spread over 25 acres inside the 432 acre campus of Toyota Kirloskar Motor's manufacturing plant.

## LAKE RESTORATION

With the ever rising water scarcity issues and encroachment of lakes for urban infrastructure, we at TKM decided to identify and restore a water body in the vicinity our manufacturing site and also develop the area to facilitate public access and sustain the local biodiversity.

Absence of clear land records, discharge of domestic wastewater and dumping of waste in and around the lake from the nearby villages were few of the challenges faced by us during the inception of the project. After a series of consultations with internal and external

stakeholders including the local community, interest groups, relevant government authorities and regulatory bodies, we took up restoration of 'Lingegowdanakere' (Lake), which is surrounded by five villages in Bidadi region.

With this project we aim to improve the lake bed and the waste weir, along with construction of amenities for children with provision of lighting and seating facilities. A chain link fencing to protect the lake boundary and jogging track around the lake will also be constructed. A wetland water treatment

facility to maintain the water quality will be constructed along with separate facilities for idol immersion [kalyani] and washing clothes to avoid further pollution of the lake.

We have ensured that our interventions are appropriately designed to respond to the issues related to degradation of water bodies and accomplish the overall goal of recreating a sustainable water resource and sensitizing people on the lake conservation by inculcating sense of ownership for sustenance of our lake restoration project.



*External Stakeholder Engagement for Lake Restoration*



*Present status of Lingegowdanakere (Lake)*



# TOYOTA GLOBAL ENVIRONMENT MONTH 2017

Since, 1973, June is celebrated as 'Toyota Global Environment Month' throughout all Toyota affiliates to raise environmental awareness of employees through various environmental activities. Every year, a specific theme is chosen by UNEP and we at TKM align with this theme to conduct our green activities.

**UNEP theme:**  
**'Connecting People to Nature'**

## TKM THEME 2017

Live in Harmony with Nature!

**SENSITIZE**

AIM:  
To sensitize people

**COLLABORATE**

AIM:  
Collaborate with business partners

**REACHOUT**

AIM:  
Reachout to all stakeholders

## ENVIRONMENT MONTH - 4 WEEKS - 4 DIFFERENT THEMES



CLIMATE CHANGE

Week 1



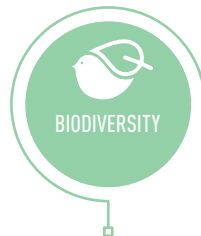
WATER  
CONSERVATION

Week 2



WASTE  
MANAGEMENT

Week 3



BIODIVERSITY

Week 4

**"The responsibility lies on all our shoulders to hand over clean and green planet to our future generations."**

*Mr. Akito Tachibana,  
MD, TKM*

## SENSITIZE

The environment month began with the kick-off meeting of all TKM top management. To enhance awareness and commitment towards environment conservation, a message from Mr. Toyoda, President, Toyota Group and Mr. Akito Tachibana, MD, TKM was delivered, followed by an Eco-pledge by all TMs at all our regional offices. The facts on environment conservation and details of

the environment month events were also communicated through mailers, intranet portal and notice boards.

Our business partners, who are our key external stakeholders, were also addressed on the environment month celebrations and the Toyota Global Vision 2050 was communicated.



*Eco Pledge at TKM*



*"No to plastic" campaign*



*Green-owlledge 2017*



*Hand wash Challenge*



Launch of Toyota Green Wave Project



Bring back Birds Campaign

## COLLABORATE WITH BUSINESS PARTNERS

### AT SUPPLIERS

Our Purchase division creates awareness amongst suppliers and trains them on relevant environment kaizens. In turn, our suppliers create environment awareness to their employees and strengthen the member participation in the environment month activities. This year, the supplier participation increased from **34% to 79%**.

**Eco Kaizen:** The best TKM Kaizens on energy, water and waste management

were shared with the suppliers. About **72%** suppliers identified kaizens and shared with TKM as a part of zone-wise kaizen sharing drive.

**Eco CSR activity:** About **19,745** saplings were planted at supplier base and local community by suppliers, followed by sustenance plan for the planted saplings.



Plantation at Suppliers

### AT DEALERS

Our CSG team along with our dealers has created a difference in the society with their environment initiatives involving customers and local community. About 253 dealerships participated in the environment month and 125 initiatives were contributed to reduce the water consumption. About **1,00,000** eco tips

were shared with Toyota customers through SMS.

**Eco-wash:** This initiative was promoted amongst 23,000 customers which led to the reduction of water consumption of **34,50,600** liters in the month of June.

**Free PUC check:** About **2,161** Free pollution free checks were conducted for customers as a part of CO<sub>2</sub> reduction activity.

**Plantation drive:** About **18,097** saplings were planted as a part of environment month.



Plantation Drive by Om Toyota



Swachh Bharat Drive by Malik Toyota



WED celebration at TKM

### REACH OUT:

**52 events | 1,500+ TKM member participation | 1100+ outside member participation | 50,000+ saplings planted | 50,000+ community members reached | 545 Kaizens suggested for resource conservation; 441 implemented**