



HONDA

The Power of Dreams





Honda Siel Cars India Ltd.

“Green Manufacturing Through Environmental Sustainability”

RAJEEV WASAN
V.P. Manufacturing
Date : 17.03.2011





- **Corporate Profile – Honda Global**
- **Honda In India**
- **Honda's Approach to Environment**
- **HSCI Key Initiatives**

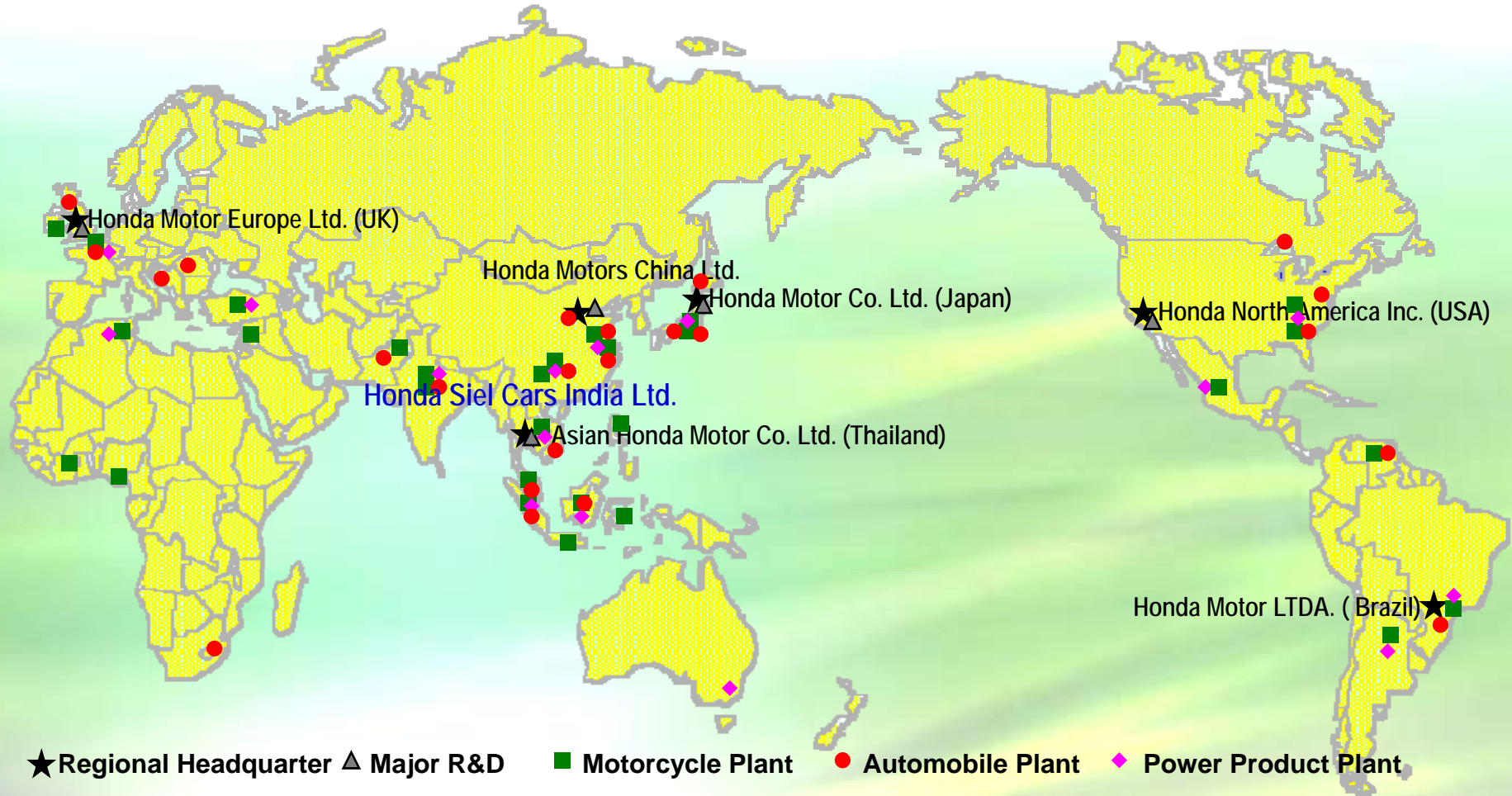


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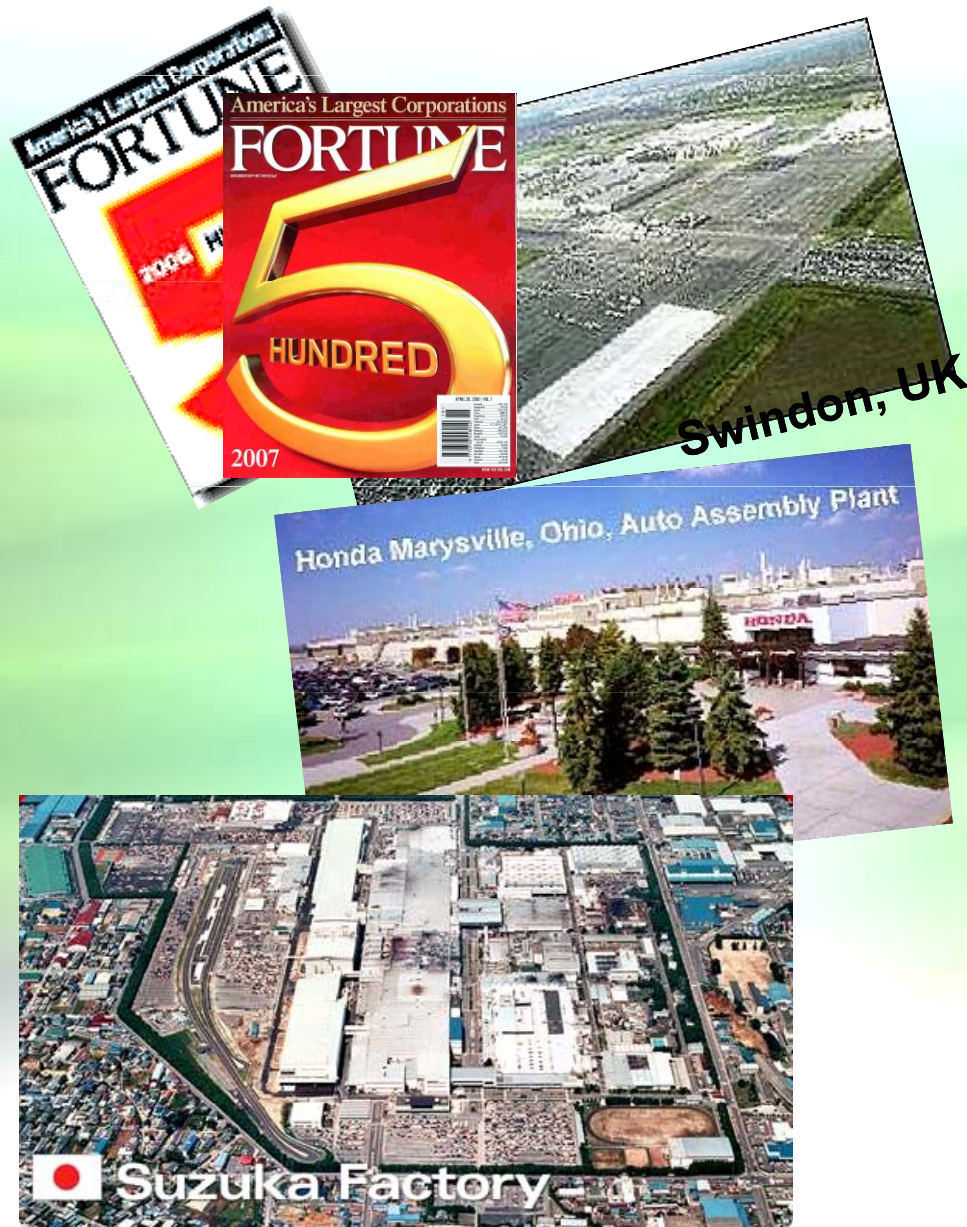


Head Office in Tokyo, Japan

- Established on September 24, 1948
- 176,815 associates in over 160 countries
- Over 20 million customers every year



- 130 plants in 30 countries supported by R & D facilities across the world
- 396 subsidiaries through out the world



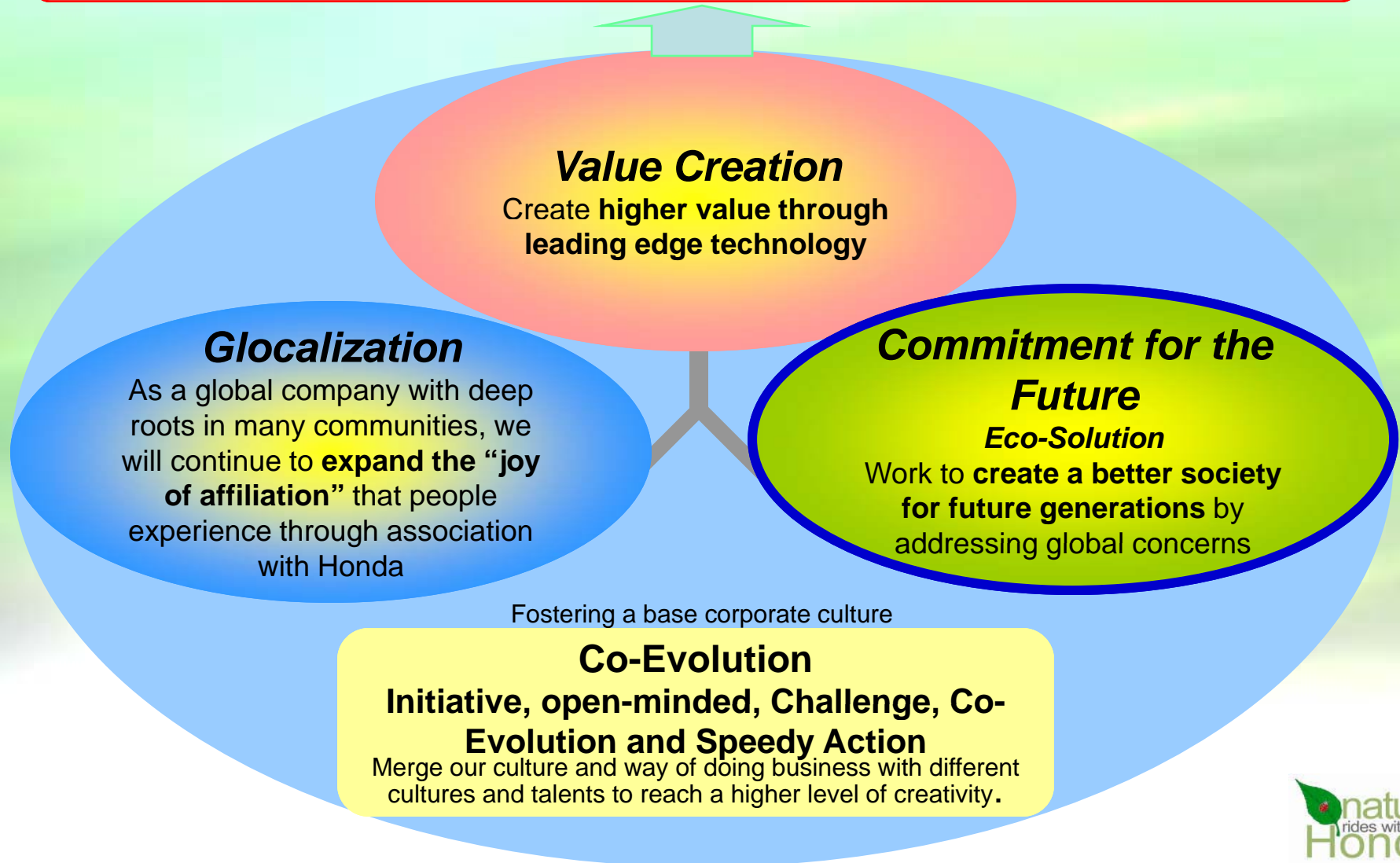
- Largest manufacturer of Internal Combustion Engines in the world
- No. 51 - Global Fortune 500 companies
- 5th largest company in Japan
- 6th biggest Global Automobile company
- Sales Turnover of US \$ 92 Billion.

* As on 31st March 2010



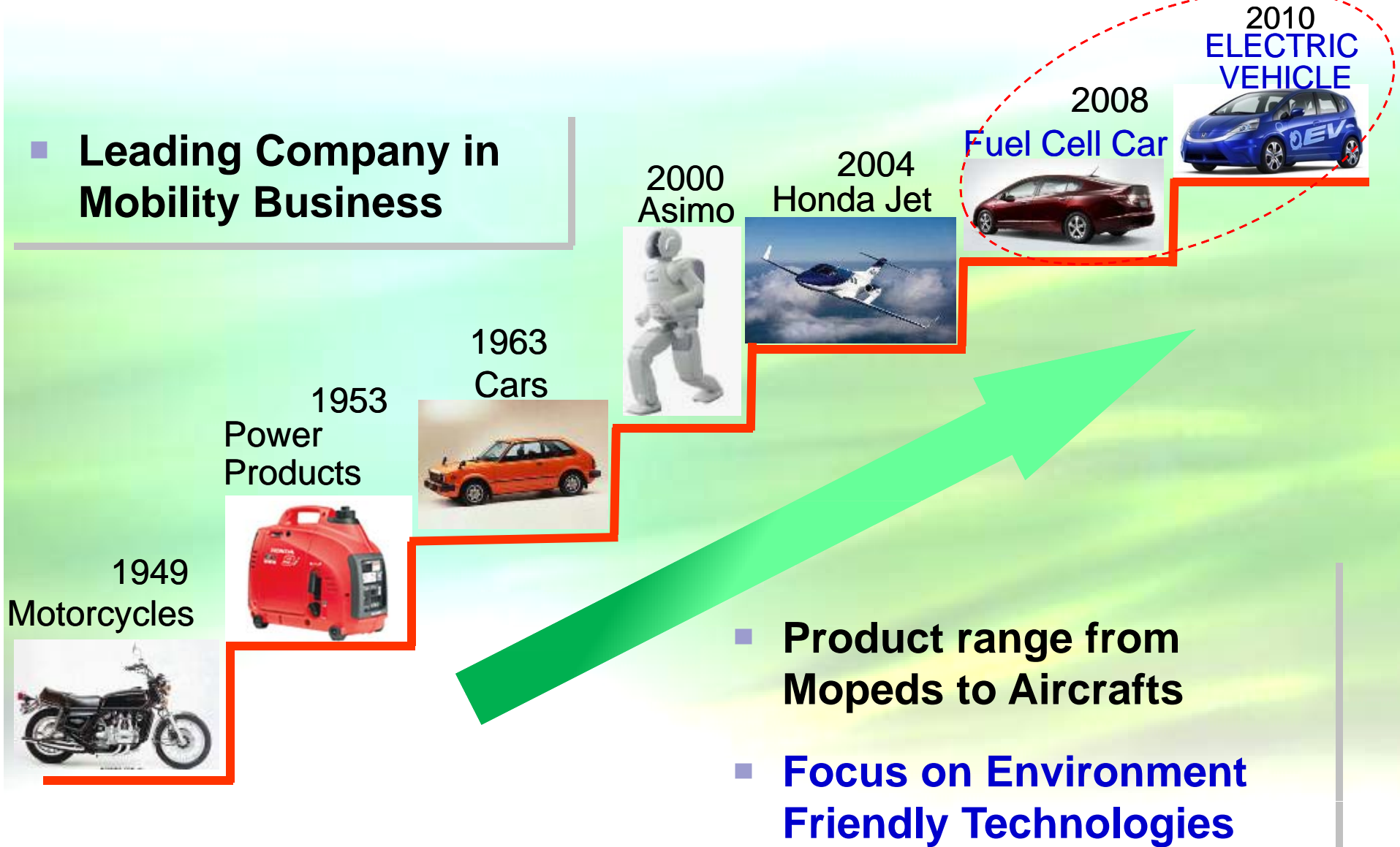
Honda's direction for 21st Century

To make ourselves a Company that Society will want to exist





- **Leading Company in Mobility Business**





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Honda in India



Honda Siel Cars India Ltd.



Production Start



Honda Siel Power Products Ltd
Greater Noida & Pondicherry



1988



Honda Siel Cars India Ltd
Greater Noida - UP
Tapukara – Raj.



1997
2008



Honda Motorcycle & Scooter India (P) Ltd
Manesar (Gurgaon)

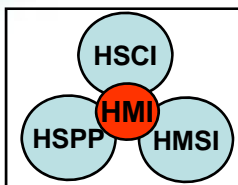


2001



Honda R&D India Pvt. Ltd
Gurgaon

2003



Honda Motor India Ltd
Greater Noida

2006



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Top Message

Striving to be a company that

A vision for the next 100 years

and could potentially be used in household hydrogen

Honda's vision for personal mobility for the next 100 years of mobility calls for an accelerated shift away from fossil fuels, and for the early development of technologies that will reduce greenhouse gas emission to zero.

mobility manufacturer, but we are also aware of the high expectations placed on Honda, and that our role in society is extremely important.

Although last year's COP15 meeting in Copenhagen failed to produce targets for action on the climate change problem, there is no longer room for debate on the need to reduce greenhouse gas emissions. The establishment of a low-carbon society is an essential step on our path to the future, and humanity's top priority now is to use Earth's limited energy resources carefully. Honda has focused its management resources on the goal of reducing greenhouse gas emissions, and we have made a drastic shift in the direction of our management strategies toward the realization of a low-carbon society.

Honda's challenge

In Honda's view, the ideal way to reduce environmental impact is to earn the support of consumers by promoting the use of products with a small environmental footprint. We want to achieve this by contributing to lower greenhouse gas emissions through the timely creation of attractive and affordably priced products with extremely low CO₂ emissions and fuel consumption.

Last year saw the global launch of the PCX, a low-priced 125 cc scooter that provides dramatically improved fuel efficiency thanks to the addition of a computer-controlled fuel injection system and idle stop system. We also launched the Insight, a compact, lightweight hybrid automobile equipped with the Honda IMA hybrid system, which delivers superb fuel efficiency.

We also used the IMA hybrid system in the CR-Z compact car. This vehicle incorporates features designed to combine fuel efficiency with driving fun, including the world's first 6-speed manual transmission in a hybrid

A new era

A time of dramatic change is also a time of opportunity for the creation of new value. The key drivers for the Honda revolution are our ability to adapt quickly and seize these opportunities, and our potential as a creator of new value.

In the past, there have been many challenges, and Honda has overcome each of these with technology. Throughout our history, we have strived to bring satisfaction to users worldwide through business activities in many countries. In this foreword, I have sought to express our determination to continue this tradition of exceeding expectations by offering new value to people everywhere from a global perspective, so that Honda can continue to be a company society wants to exist.

The Honda environmental annual report 2010

Honda will continue to move forward boldly toward the goal of creating a low carbon society. We are working to realize that vision through comprehensive initiatives to support judicious use of the world's limited energy resources and a shift away from fossil fuels, and through the development of alternative - energy technologies.



Honda Environment Statement

As a responsible member of society whose task lies in the preservation of the global environment. The company will make every effort to contribute to human health and the preservation of the Global environment in each phase of its corporate activity. Only this way will we be able to Count on a successful future not only for our company ,but for the entire world

We should pursue our daily business interests under the following principles

----- 1 -----

We will make efforts to recycle materials and conserve resources and energy at every stage of Our products life cycle from research, design, production and sales, to services and disposal.

----- 2 -----

We will make every effort to minimize and find appropriate methods to dispose of waste and Contaminants that are produced through the use of our products, and in every stage of the life Cycle of these products.

----- 3 -----

As both a member of the company and of society, each associate will focus on the importance of making efforts to preserve human health and the global environment, and will do his or her part to ensure that the company as a whole acts responsibly

----- 4 -----

We will consider the influence that our corporate activities have on the local environment and society, and endeavor to improve the social standing of the company.



Established and announced in June 1992



Policy on Monitoring and Responding to Environmental Impact from Operations

Honda is aware of its responsibility for the environmental impact generated by its corporate activities and the use of its products and is committed to minimizing that impact.

To achieve this, it is essential that we identify specific issues and set targets for action. We set specific goals in the context of our Life

Cycle Assessment System, which is used to measure, assess and analyze environmental impact.



Honda Motor Goal of 2008 ~ 2011

**Strive to become “The No. 1 most admired company”
while being at the forefront on the area of the
environment**

Honda South West Asia Region

**Challenging Target for CO₂ Emission Reduction
along with reduction of Hazardous Substance**



HONDA SIEL Cars India Ltd (HSCCI), TKR, Bhiwadi is committed to minimize use of Energy and Fuel systematically to optimize the cost of its operations & subsequently minimize the adverse impact on Environment and Society by.....

- ◆ Establishing the Energy consumption Norms as Benchmarks & Initiating measures to achieve the Norms.
- ◆ To involve all Employees in Energy Management & Conservation through different Activities like Kaizen, NH Circle
- ◆ **The management is committed towards continuous Improvement through Conservation & Optimal utilization of Natural resources.**
- ◆ Continuous carry out Energy Audits to identify areas for Improvements.
- ◆ Comply with the Energy Legislation and other Regulations.

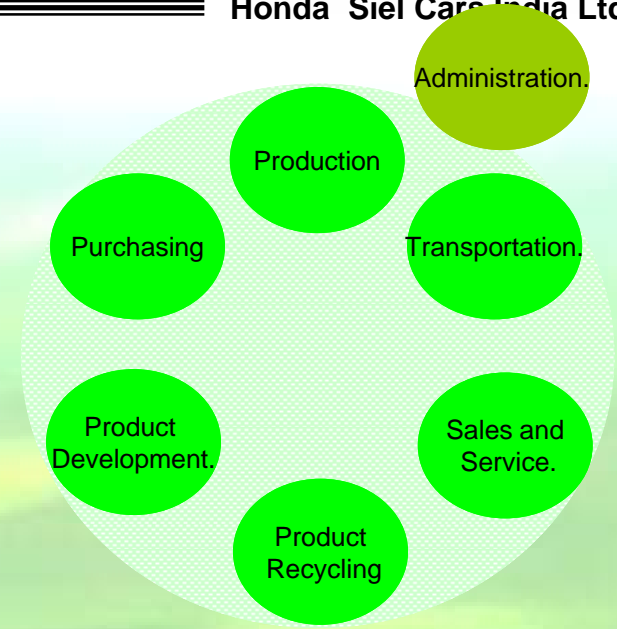
The management is committed towards continuous Improvement through Conservation & Optimal utilization of Natural resources. HSCCI TKR shall adopt measures to Reduce, Re-Use & Recycle various Natural Resources through participation & innovation among the Employees at all levels.



Global Environment Management Policy

Policy on Monitoring and Responding to Environmental Impact from Operations.

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Honda Corporate Activities

Environmental Impacts

Honda Response

Lifecycle of corporate activities.	Concerns
Product Development	Co2, Exhaust emissions, Noise
Purchasing	Co2 Waste Waste water Exhaust Emissions Noise Chemicals
Production	Co2 Waste
Transportation	Co2 Removed parts Fluorocarbon waste
Sales & Service	Co2 End of life products (Chemicals)
Product Recycling	Co2 Waste
Administration	

- Global Environmental Issues
- Climate Change
- Ozone Depletion
- Resource depletion
- Biodiversity
- Air Pollution
- Waste
- Waste water
- Soil Pollution
- Noise
- Local Environmental issues

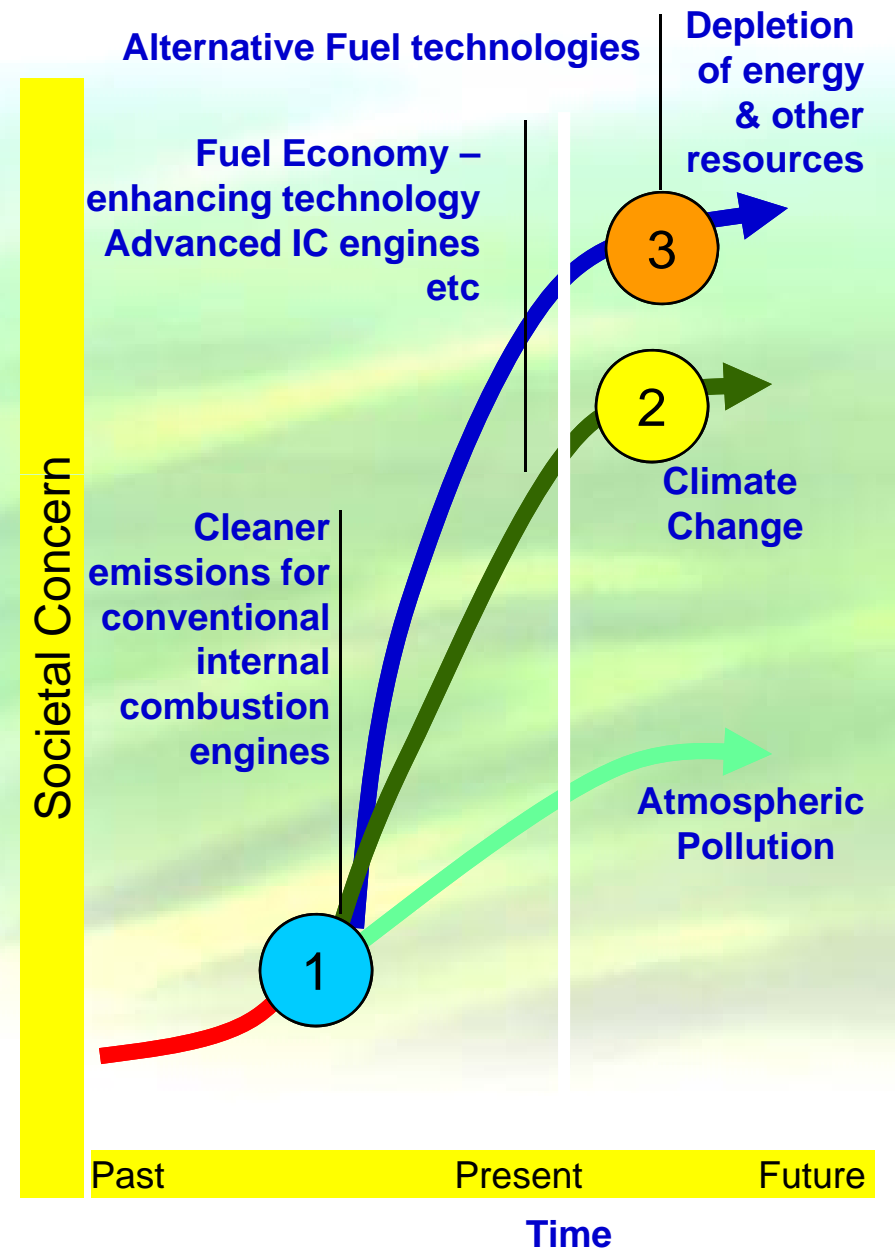
Major Initiatives
Exhaust Emissions Reduction Development of alternate energy products Noise Reduction
Green Purchasing - Environmental Management - Saving Energy and resources with suppliers
Green Factories - Environmental Management - Saving Energy and Resources
Green Logistics - Improving transportation efficiency - Reducing packaging
Green Dealers - Environmental Management - Social Contribution
Recovery, recycling & Reuse of parts Proper disposal of end life products Technical support for the recycling
Green Offices - Energy Conservation - Environmental contribution to local communities.



Honda's approach to Environmental issues

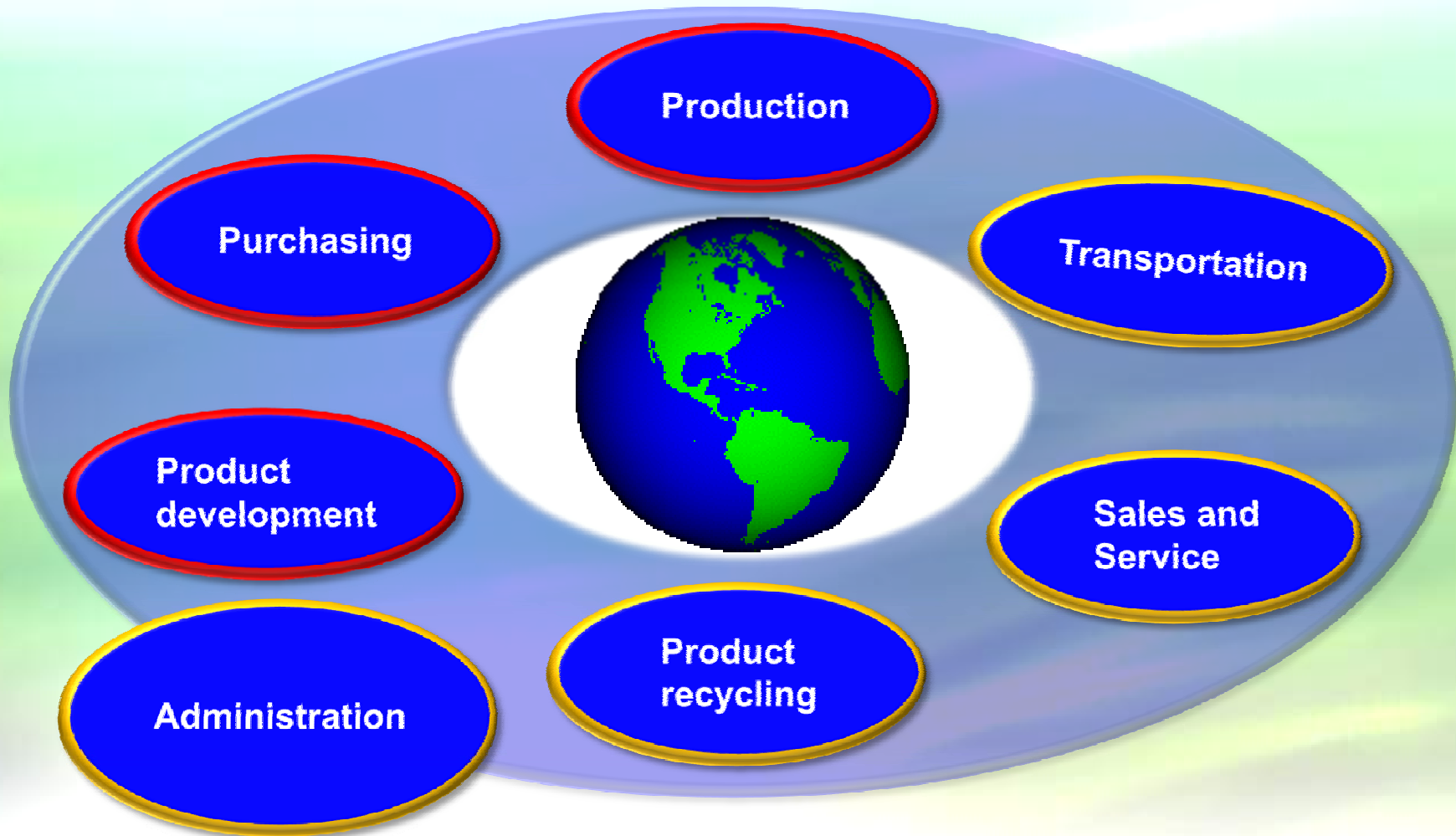
The graph here provides a visual illustration of Honda's approach to some of the environmental issues that face us. Honda has long been committed to tackling issues related to atmospheric pollution, developing such combustion technologies as the CVCC engines (introduced in 1972) to comply with the US clean air act – the world's most stringent emission regulations at the time. Honda has since continued to refine its engine, catalytic converter and other clean emission technologies, with the result that, over the past 40 years, vehicle emission has been reduced to 1/1,000 of 1970 levels, when the US Clean Air Act became law. Honda believe that , as the use of vehicles with outstanding emissions performances become more widespread, the effect of vehicles on the world's atmosphere will be further mitigated.

Honda continually strive to be “a company that society wants to exist” by presenting value that surpass everyone's expectation.

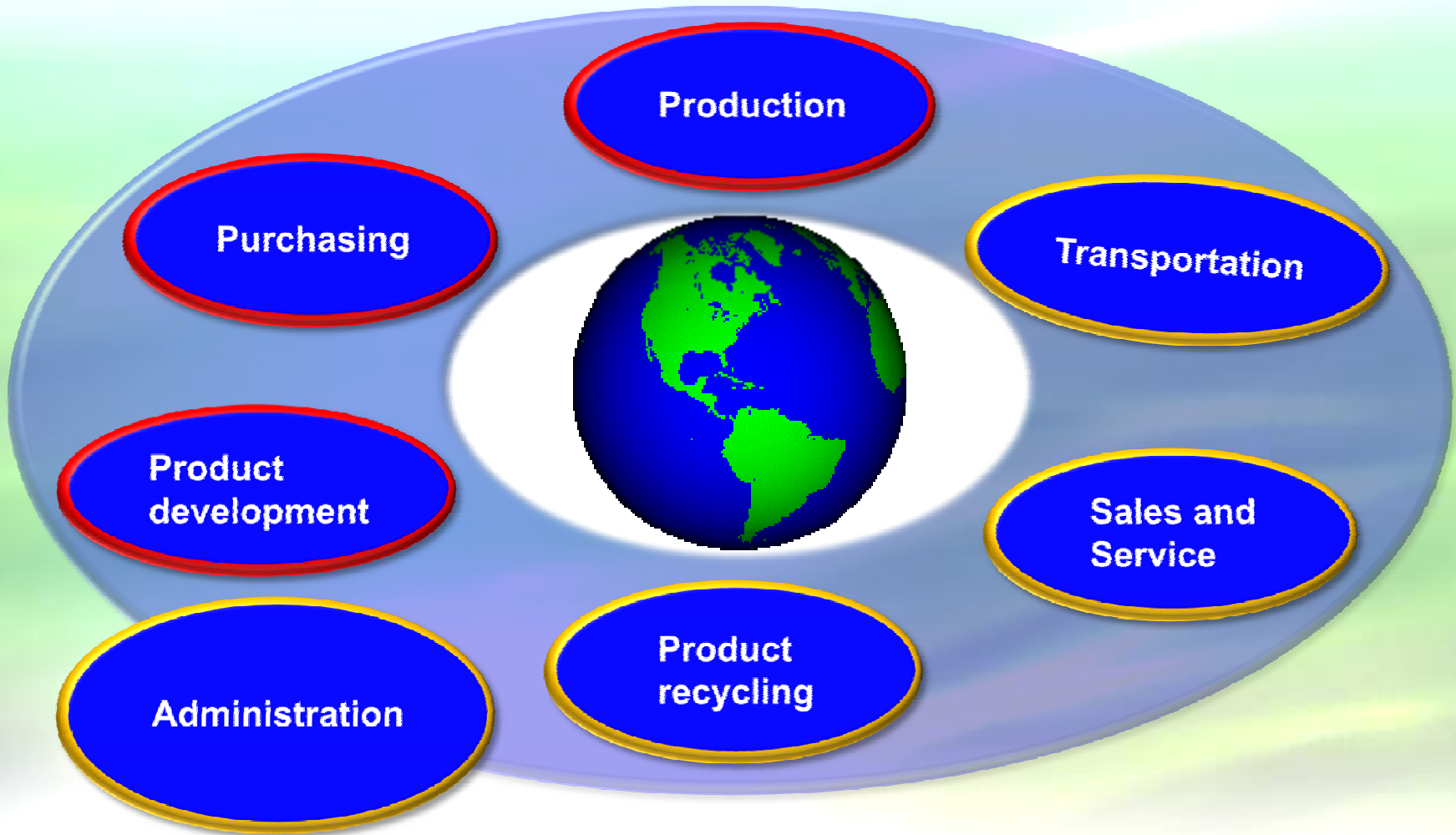




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IT ENCOMPASSES THE WHOLE ASPECTS OF PRODUCT LIFE, HERE WE SHALL BE FOCUSING ON PRODUCT, PRODUCTION & PURCHASING.

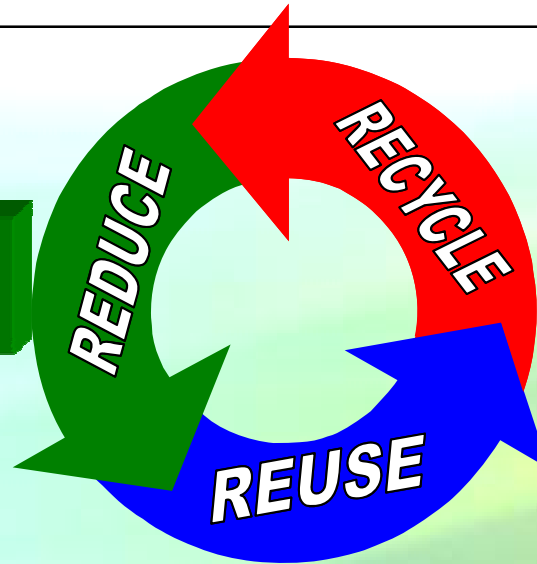




3R'S CONCEPT

REDUCE

Means to reduce waste



RECYCLE

Means to recycle the waste for efficient use of resources

REUSE

Means to reuse resources that were wasted in the past.

Product Design is based on the "3Rs"

Honda aims to reduce waste as far as possible and to minimize the environmental impacts of its production activities by adopting the "3R" concept in its product design.

Product Recyclability from Product Development Stage

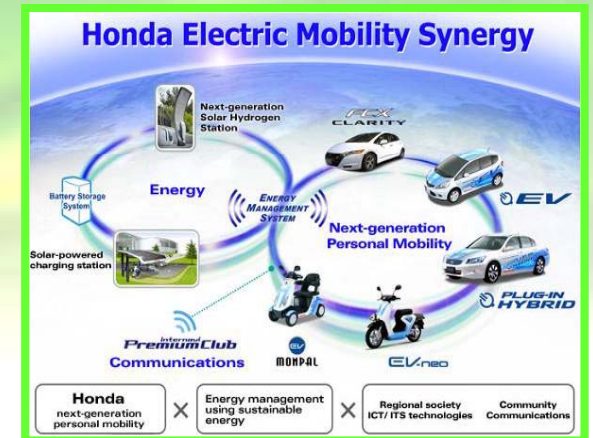
Honda gives full consideration to the Product Recyclability, right from the earliest development stage. At the development stage, we strictly evaluate our products from the following "3R" aspects : Reduce, Reuse, Recycle.

RECYCLABILITY OF MATERIALS ACHIEVED IN CARS IS MORE THEN 90%.



HYBRID VEHICLES

FUEL CELL VEHICLE





A Generation Ahead



Environment Friendly

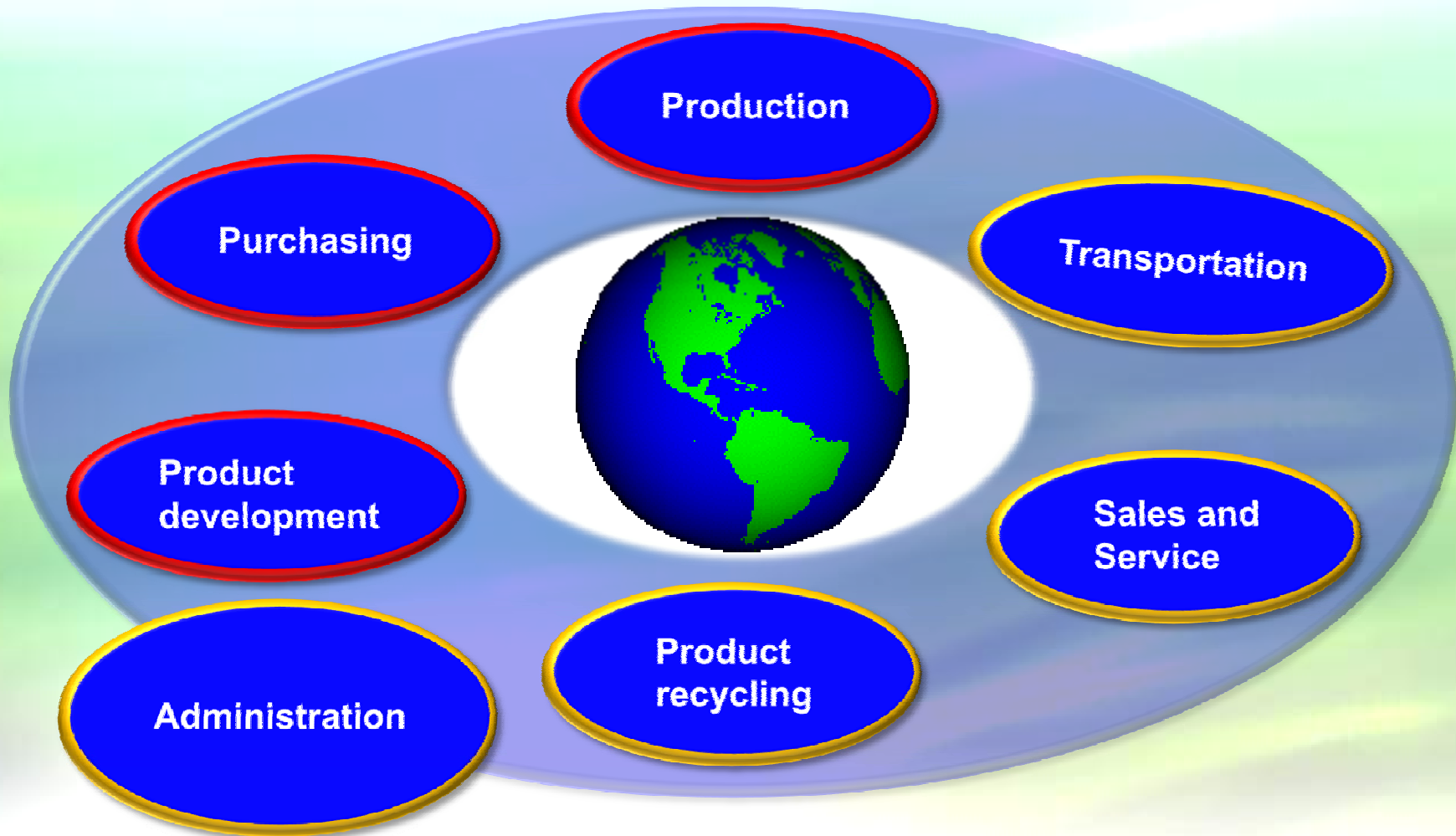
E10 Compatible Line-up

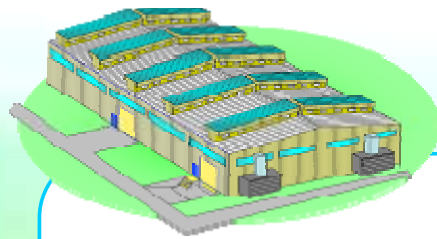
**Can run on mix of
90% Petrol – 10% Ethanol**

Surpass Emission Norms

**ENTIRE HONDA LINEUP IN INDIA IS
E10 COMPLIANT**







PO
Welding
Paint
Assembly

Reformed line

P T (Eng./Miss.)
Casting Forging
Machinery
Assembly

Working environment

- Safety
- Working space
- Amenity

Existing line

2001

2010

2020

Zero emission
Energy efficiency

Realization of
Green Factory

Recycling
production factory

Material recycle
Thermal recycle

Next generation
full recycling
production factory

Establish zero-
emission / full
recycling
production
network

Coexisting with the earth

Environmental management

- ISO14001
- Life cycle assessment
- Environmental label
- Environmental performance
- Chemical substance control system

Zero emission

- Segregation
- Reduction
- Recycle
- Harmlessness

Energy / resource

- Improve energy efficiency (Cogeneration / Short process)
- New energy

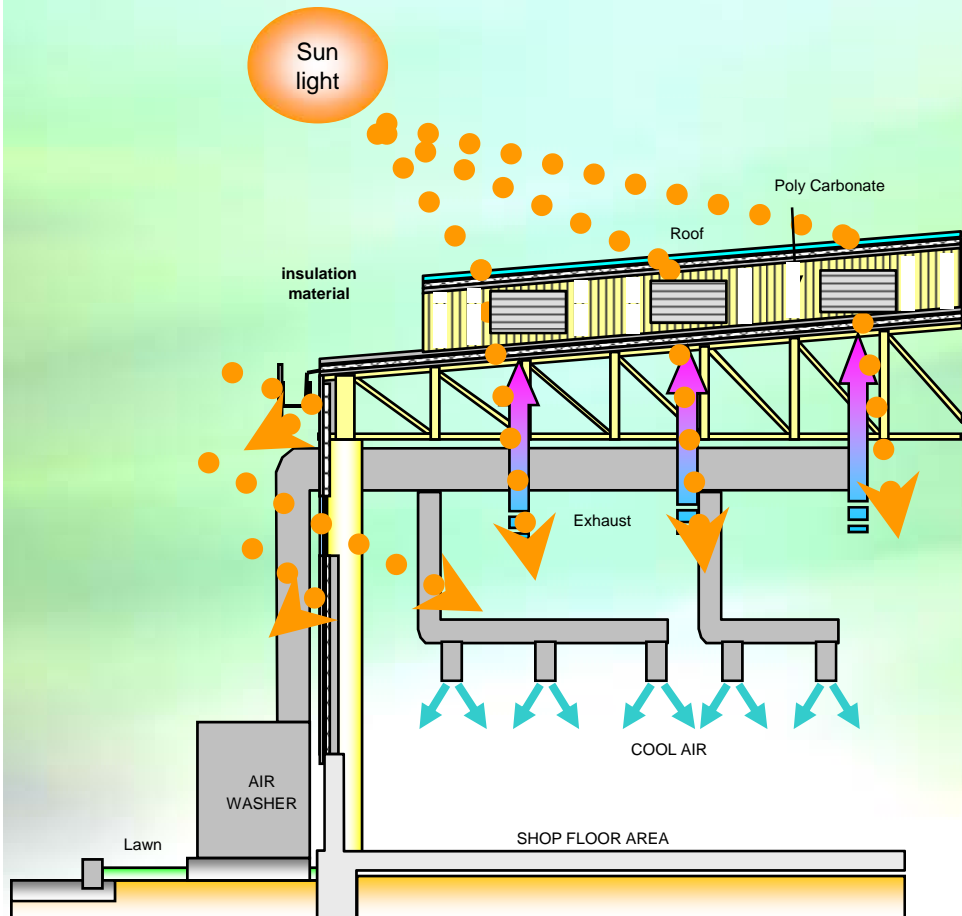
Regional environment Local community

- Publicity
- Cleaning activities
- Social activities

Worldwide Green Factory activity



CONCEPT



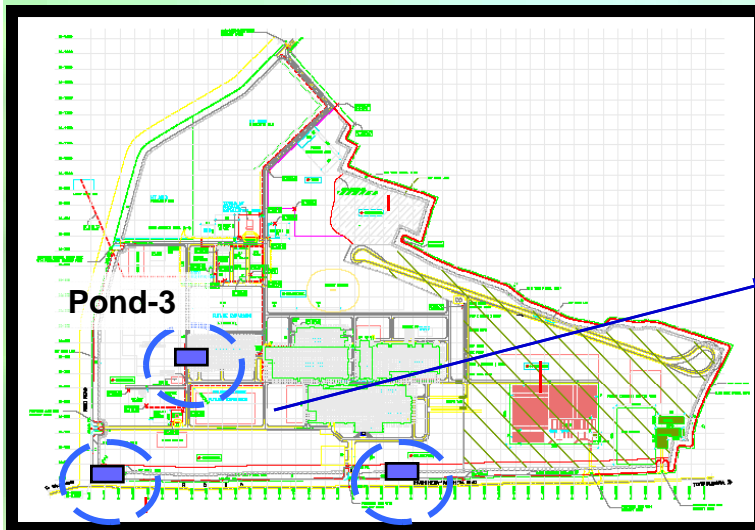
IMPLEMENTATION



BUILDINGS ARE BEING DESIGNED WITH A VIEW TO MAXIMIZE THE USE OF NATURAL RESOURCES AND TO REDUCE IMPACT ON ENVIRONMENT.

Rain Water Harvesting to Recharge Ground Water

**3 Recharging Ponds
with 56 bore well**



Pond-1

Pond-2



Pond



Recharge wells



Desilting Chamber



Pond filled with water

Water storage capacity – 31461 Cum

Peizometer installed at 3 Locations

**Design Approved By Central
Ground Water Board**

WATER FROM ROOF TOPS, ROADS, LAWNS IS HARVESTED & RECHARGED TO THE GROUND.



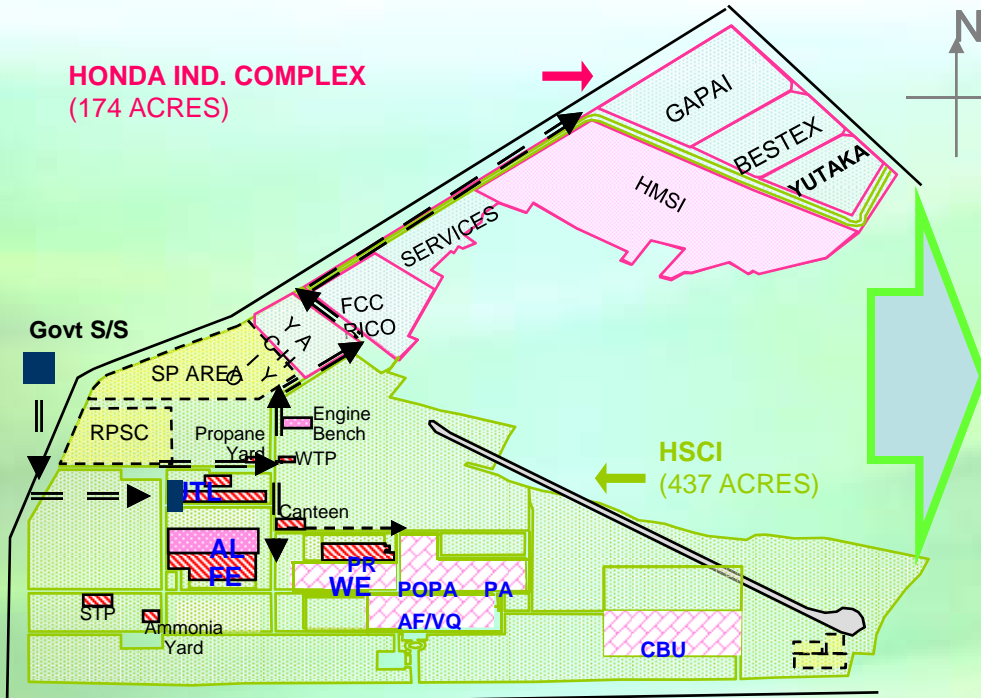
- GREEN COVERAGE → 101,124 METER²
- HEDGES → 18,478 RUNNING METER
- TREES → 10,880 Nos



LANDSCAPING HAS BEEN PLANNED FOR ENHANCING THE GREEN COVER.

TOTAL AREA = 611 ACRES

SWITCHYARD



CENTRALIZED 132 KV POWER RECIVING STATION HAS BEEN PLANNED FOR HSCI & ASSOCIATE COMPANIES FOR OPTIMIZING THE GRID RELIABILITY TO REDUCE THE CAPTIVE POWER USE & FURTHER REDUCE THE IMPACT ON ENVIRONMENT THROUGH EXHAUST EMMISION.



AIR COMPRESSOR



GAS VAPORIZERS



LIGHTING



PUMPING SYSTEM



VFD Compressors & Driers used for fluctuating air demands & resulting in power savings.

Auto operation of Vaporizer through pressure control to reduce electrical consumption.

Energy efficient T5 28 W tubelights & CFL used across the plant.

Highly energy efficient pumps along with hydro pneumatic system used across the plant .

ENERGY EFFICIENT EQUIPMENTS SELECTED DURING PLANT INCEPTION.

ETP



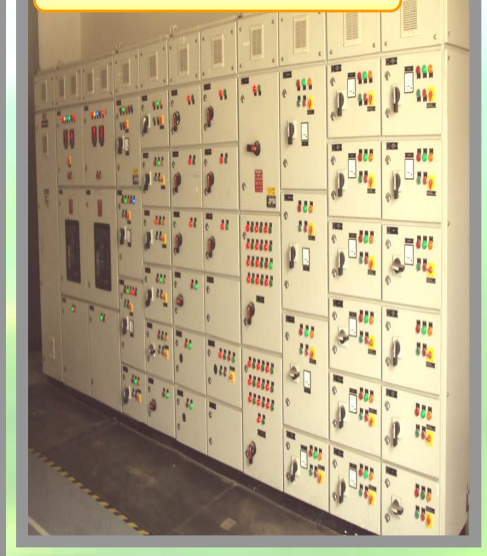
STP



UPS



HT Substation



100 % recycling of treated water by providing tertiary treatment.. Treated water being used for landscaping and flushing use.

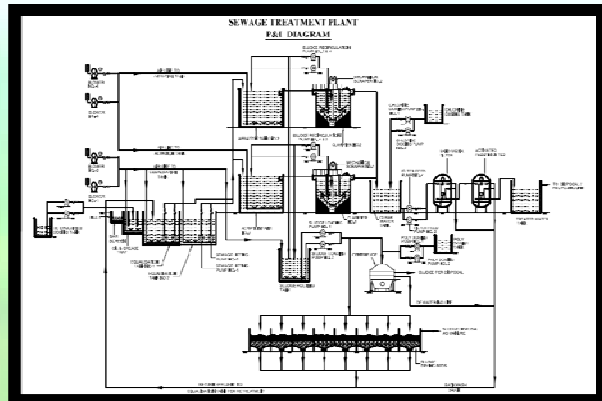
With the incorporation of 800 KVA UPS, we have shifted complete plant load on Grid thus making our process fuel free.

Our process to distribute power is thru 11KV(HT) thus minimizing the losses in power distribution.

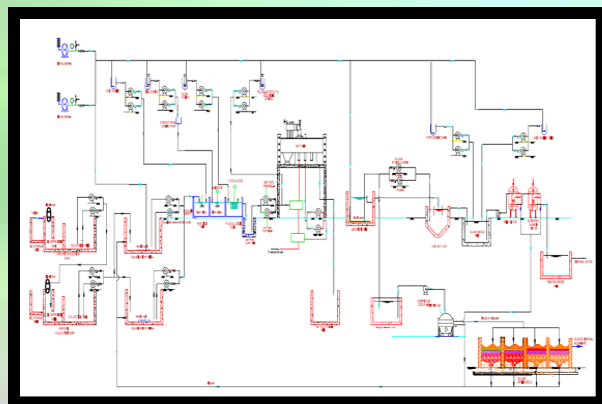
PROCESS DESIGNED TO ENSURE CONSERVATION OF RESOURCES



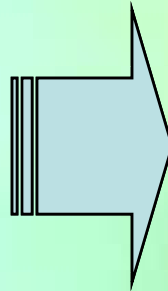
Green Factory



STP (200M³/Day)



ETP (30M³/Day)



- Water Recycling
- Waste Management



Green Area

**ENVIRONMENT PRESERVATION THROUGH ZERO WATER DISCHARGE AND
ECO FRIENDLY WASTE MANAGEMENT TECHNIQUES**



Environment – Associate's Participation

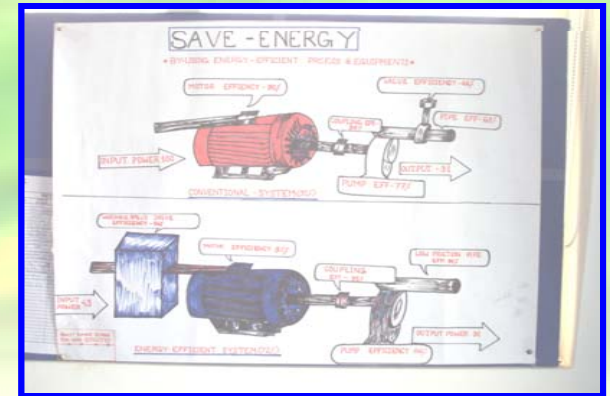


Honda Siel Cars India Ltd.



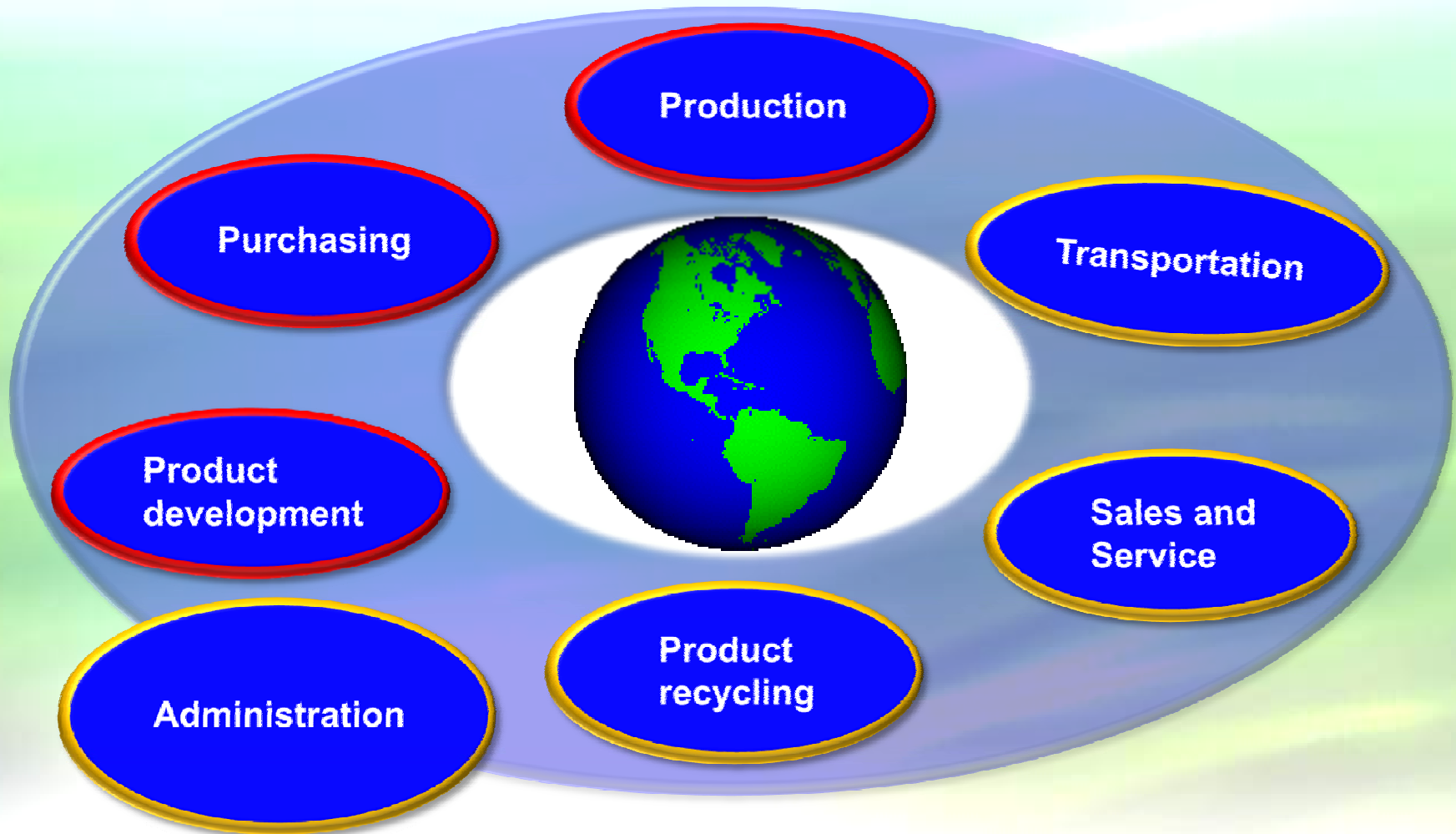
Reduction in compressed air consumption-Crank shaft machine **HSCI TRP**
Power Train

ENERGY SAVING DETAIL				
1	Name of Equipment:	Crank Shaft & Lubric	Date:	Feb 2012
2	Location:	Crank Shaft	Address:	Power Train
3	Title of the Measure:	Reduction in compressed air consumption in Crank Shaft machine		
4	Details of the Works:	Control valve changed for stop steering instead of air steering		
5	Before Operation (Picture like before saving)	After Operation (Picture like before saving)		
6	Total Investment Rs.:	Rs.	Implementation Time	03 days
7	Savings:	Power (KW/HP)	Fuel (KL/PL)	Cost (RS/PL)
	Before	1241		Marathon (0/1500)
8	After			
	Implementing Team:	Arif	20	20



ASSOCIATES MADE PARTNER IN ENVIRONMENT CONSERVATION ACTIVITIES.







Partnership of Suppliers and Honda



Related to
Concern for Environment





Honda Green Purchasing Activity



HONDA

Honda Siel Cars India Ltd.

AREA	ACTIVITY	CONTROL ITEM	HSCI ACTIVITY
Products	Handling of substances of concern, proportion including in parts	Volume contained in product (Part / Material)	Hazardous Chemicals Reduction / Elimination
Production	Monitoring environmental impact of supplier activities	Volume of CO ₂ emissions	Waste Reduction
		Landfill Waste volume	
Policy	Environmental management systems at suppliers	ISO 14001 certification status	Spreading Policy implementation

HONDA IS WORKING WITH SUPPLIERS TO MAXIMIZE PROCUREMENT OF MATERIALS AND PARTS THAT HAVE MINIMAL ENVIRONMENTAL IMPACT DURING THE COMPLETE PRODUCTION CYCLE.





Online Haz-Chem non use Declaration



Honda Siel Cars India Ltd.

Honda Supplier Collaboration Portal - Windows Internet Explorer

\\pr-pc-49\common\hscp format\HSCP - Phase III Documents\Prototype - 29.10.2007\Phase III\WebContent\html\dashboard!

File Edit View Favorites Tools Help

Links Customize Links Free Hotmail My Yahoo! Windows Windows Marketplace Windows Media Yahoo! Yahoo! Answers Yahoo! Downloads Yahoo! Mail

Web Search Bookmarks Settings Messenger Mail MySpace News

Honda Supplier Collabora... x

ISO/ Certificates Status*

ISO 9001:2000	<input checked="" type="radio"/> Yes <input type="radio"/> No
ISO 14001:2004	<input checked="" type="radio"/> Yes <input type="radio"/> No
ISO 16949	<input checked="" type="radio"/> Yes <input type="radio"/> No
QS 9000	<input checked="" type="radio"/> Yes <input type="radio"/> No

Hazardous Chemicals Declaration* We hereby confirm that all our parts supplied to HSCI does not contain following hazardous chemicals as per Honda chemical guidelines

- Cr ⁶⁺	<input type="radio"/> Yes <input checked="" type="radio"/> No
- Pb	<input type="radio"/> Yes <input checked="" type="radio"/> No
- Hg	<input type="radio"/> Yes <input checked="" type="radio"/> No
- Cd	<input type="radio"/> Yes <input checked="" type="radio"/> No

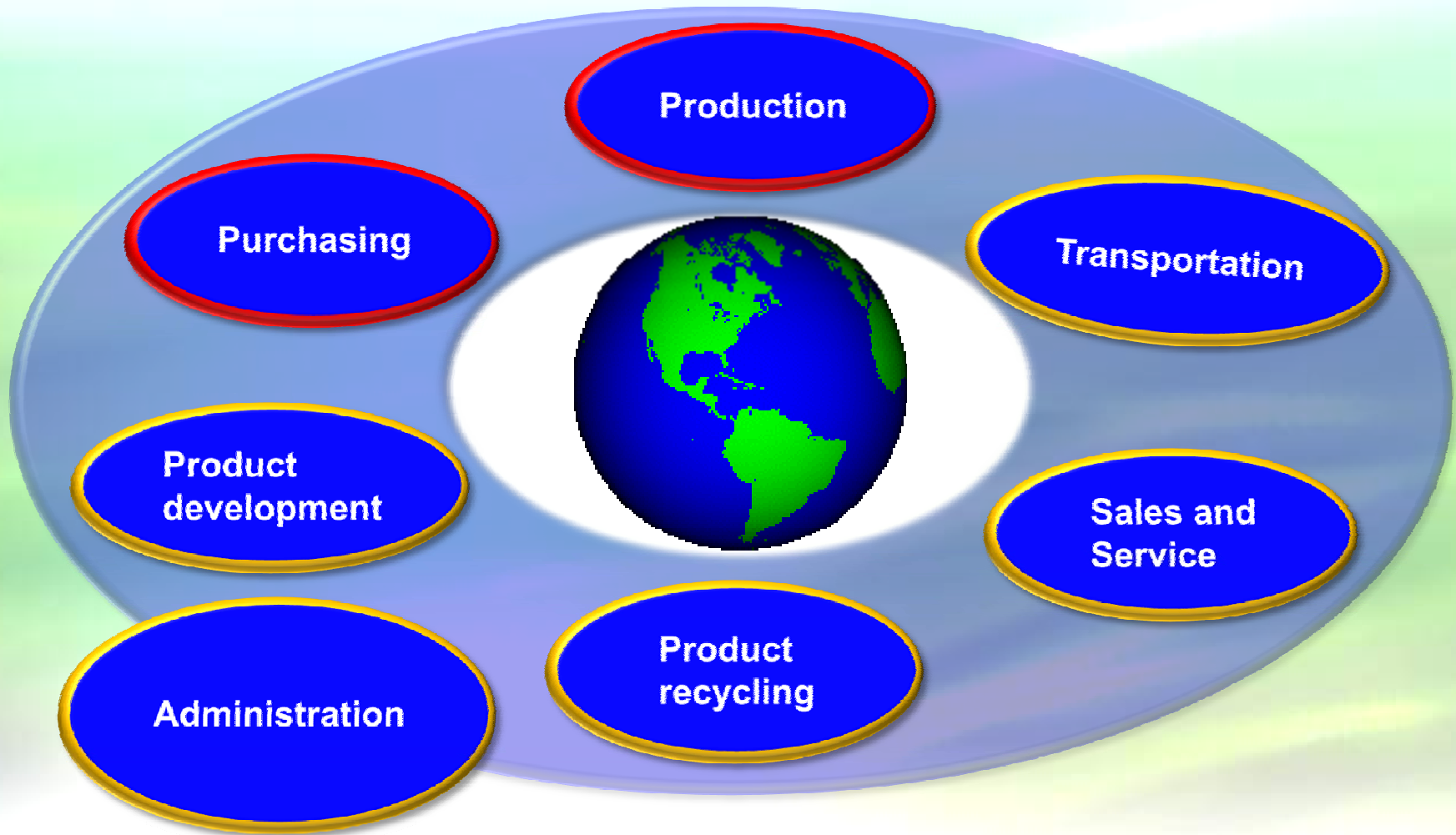
Upload Road Map Browse...

Any Other Information

Update Cancel

ONLINE DECLARATION BEING TAKEN FROM SUPPLIERS.







Existing Themes

Energy Conservation



Use of Natural Light



Co₂ Reduction



Use of energy efficient lights



Water Conservation



Water recycling



VOC Control



Water based paint booth



New activities

Green Dealer Logo



Green Dealer Certificate



One Car One Tree



EXPANDING HONDA GREEN ACTIVITIES TO ALL DEALERS.



COMPANY VISION WITH A CLEAR FOCUS ON ENVIRONMENT ISSUES.

ENVIRONMENTAL POLICIES/GUIDING PRINCIPLES

LONG TERM BUSINESS PLAN

PLANT LEVEL INITIATIVES



**WE AT HONDA ARE COMMITTED TO TAKING CARE
OF OUR PLANET FOR CONTINUITY OF OUR
SPECIES.**



HONDA
Honda Siel Cars India Ltd.





Honda Siel Cars India Ltd.

Thank You

