



**Power
Generation**

Ref: STEX/SECT/2016
March 26, 2016

✓ The Relationship Manager
DCS-CRD
BSE Limited
Rotunda Building, P. J. Towers
Dalal Street, Fort
Mumbai 400 001

National Stock Exchange of India Limited
Exchange Plaza, 5th Floor
Plot No. C/1, G Block,
Bandra – Kurla Complex
Bandra (East)
Mumbai 400 051

Sub.: Intimation of presentation made at the analysts' meet under Regulation 30(6) of the SEBI (Listing Obligations and Disclosure Requirements) Regulations, 2015.

Dear Sir/Madam,

In terms of Regulation 30(6) of the SEBI (Listing Obligations and Disclosure Requirements) Regulations, 2015, we have enclosed the presentation made at the analysts' meet held on March 23, 2016.

This intimation is being sent today, as March 24, 2016 and March 25, 2016 were holidays on account of Holi and Good Friday.

Kindly take this intimation on your record.

Thanking you, we are,

Yours truly,

For Cummins India Limited,

K. Venkata Ramana
Group Vice President – Legal & Company Secretary

Power Generation Business of Cummins India Limited
Plot No. B-2, SEZ Industrial Area
Village Survadi, Taluka Phaltan
Satara 415 522 Maharashtra, India
Phone +91 2166 305514
cumminsindia.com
cpgindia@cummins.com

Registered Office
Cummins India Limited, Cummins India Office Campus, Tower A, 5th Floor,
Survey No. 21, Balewadi, Pune 411 045 Maharashtra, India
CIN : L29112PN1962PLC012276

Cummins in India

March 2016

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Agenda

- Cummins in India
- Macroeconomic Environment
- Business Overview
- Focus on Corporate Responsibility



Anant Talaulicar



- Joined Cummins in 1986
- Current job title:
 - Chairman and Managing Director, India ABO and Cummins India Limited
- Roles and Responsibilities:
 - Overall business strategy and functioning of the Cummins Group in India
 - Has worked across the Company's businesses in the United States and India
 - Has garnered a variety of functional and operational experiences having worked in Finance, Manufacturing, Product Management, Corporate Strategy, Marketing and General Management
 - In addition to being CMD for the Cummins Group in India, has worked in the dual role of President – Components Business, Cummins Inc., from 2010 to December 2014
 - Moved to India in 2003 and became the Managing Director of Cummins India in 2004
 - Has held number of leadership roles in Power Generation – commercial and consumer lines of business
- Educational Background
 - Bachelor's degree in Mechanical Engineering from Mysore University
 - Completed his MS from University of Michigan in Ann Arbor
 - Masters in Business Administration from Tulane University, US
 - Chairman of National Manufacturing Council of the Confederation of Indian Industries



Rajiv Batra

- **Current job title:**
 - Chief Financial Officer, Head-Facilities, India ABO and Cummins India Limited

- **Roles and Responsibilities:**
 - Oversees the Financial functions at CIL and other entities of the Cummins Group in India
 - Business Partnership
 - Ensures effective processes with strong controls
 - Involved in building strong linkages to key corporate functions ensuring compliance to global corporate policies and practices

- **Educational Background**
 - Chartered Accountant with over 30 years of work experience in India and the United States.
 - Co-Convenor, CII Maharashtra Finance & Taxation Panel
 - Chairman of CII WR (Western Region) Sub Committee on Power in 2013-14

Strategic Leadership Team



Anant Talaulicar

Chairman and Managing Director – India ABO



Sandeep Sinha
Chief Operating
Officer



Rajiv Batra
Finance &
Facilities



Sudha Dhar
Chief
Information
Officer & GAC



**Ashish
Aggarwal**
Government
Relations



TBD
Strategy



**Qureish
Shipchandler**
Internal
Audit



Vikas Thapa
Human
Resources



**Venkat
Ramana**
Legal & Secretarial



Operating Leadership Team



Sandeep Sinha
Chief Operating Officer – India ABO



Ashwath Ram
Engine Business &
HMLD Engine
Business India



Mandar Deo
HHP Engine
Business
India



Amit Kumar
Power
Generation



**Bhavana
Bindra**
Distribution
Business



**Milind
Madani**
New & ReCon
Parts India



Anjali Pandey
Cummins Turbo
Technologies



**Manish
Gulati**
Cummins Fuel
Systems



G.K Sharma
Cummins
Emission
Solutions



**Niranjan
Kirloskar**
Fleetguard
Filters



Sandeep Kalia
Valvoline
Cummins



**Jayeeta
Lakhani**
Director
Product
Planning &
Mgmt.



**Hardik
Shah**
SCM
Director



Aditi Sharma
Quality
Champion



**Paul
Sowerby**
CTCI / CRTI/
Eng



Shamli Chapalge
Corporate
Communications &
Branding



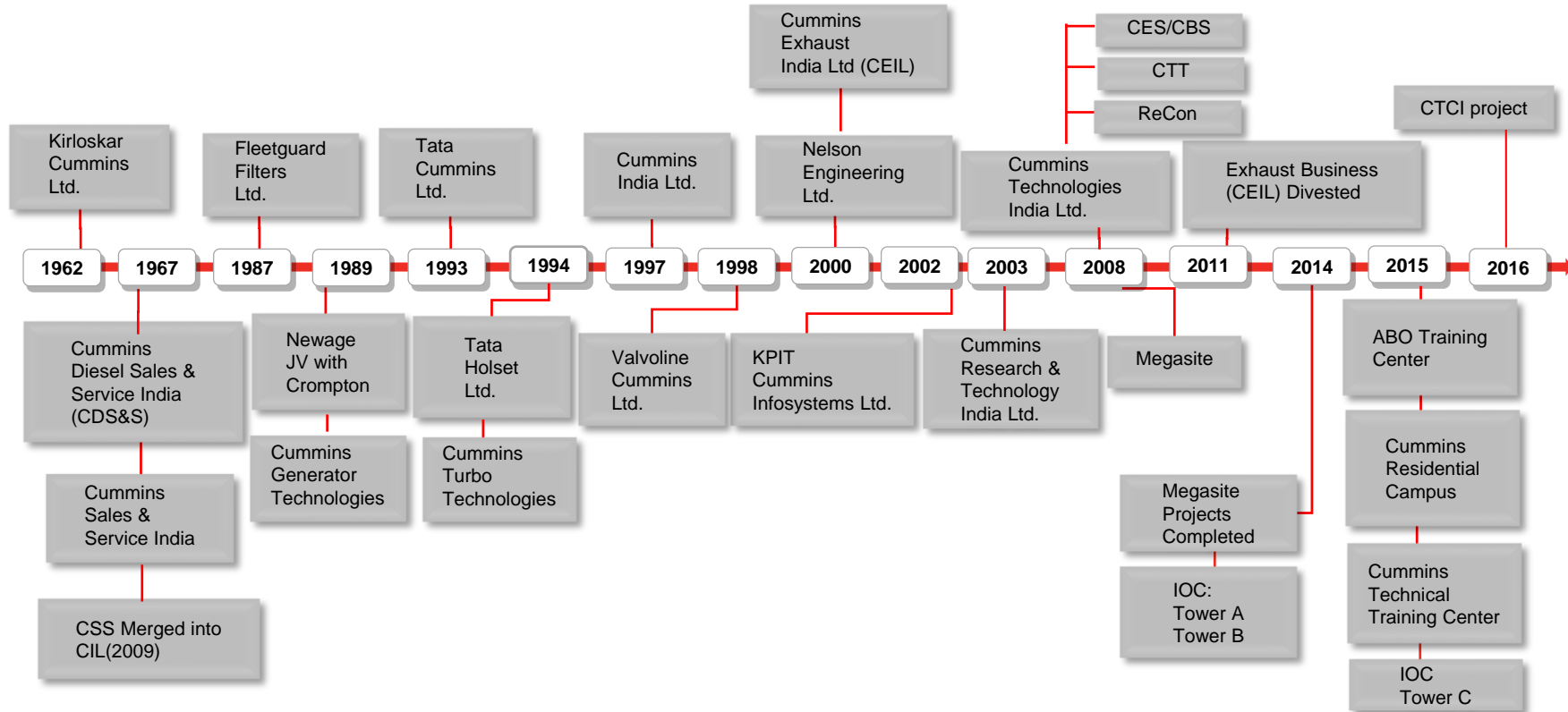
Manoj Solanki
Purchasing



Babu Nagarajan
Cummins Business
Services



Cummins in India – Since 1962





Cummins in India

- In India since 1962
- 8 legal entities (including 3 JVs)
- Over 10,000 employees
- \$ 1.6 bn combined sales

Engine Value Packages (32-3500 HP)

Automotive, Construction, Mining, Compressors, Pumps, Marine, Railway, Oil & Gas, Defense

Power Generation

Gensets (7.5-3750 kVA), Energy Management, Captive Power Plants, Alternators

Components & Consumables

Filtration, Turbochargers, Emission Solutions, Lubricants

Services

R&D, Sourcing, Analytics

Valvoline Cummins
Cummins Sales & Service
NCR

Cummins Turbo Technologies
Dewas / Pithampur

Valvoline Cummins
Mumbai/ Ambernath

Cummins India Ltd.
Fleetguard Filters
Cummins Research & Technology India
Cummins Generator Technologies
India Office Campus
Pune

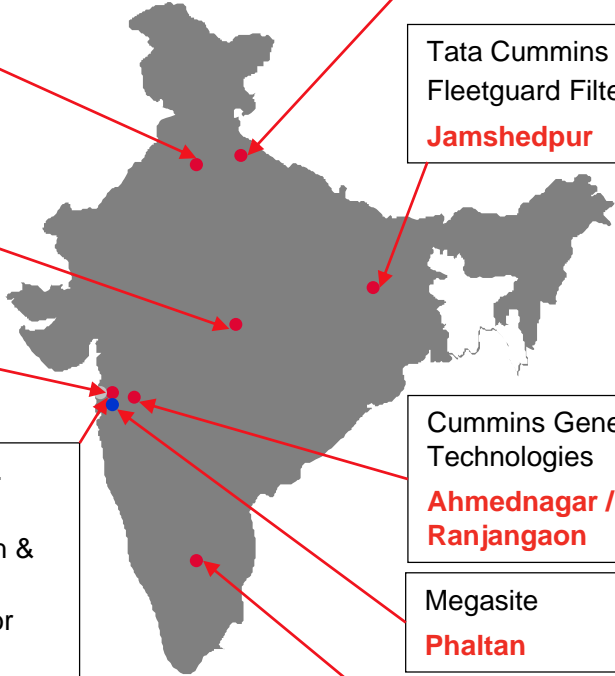
Cummins Turbo Technologies
Fleetguard Filters
Rudrapur

Tata Cummins
Fleetguard Filters
Jamshedpur

Cummins Generator Technologies
Ahmednagar / Ranjangaon

Megasite
Phaltan

Fleetguard Filters
Hosur





Organization Structure

Cummins in India

Entities :

1. Cummins India Ltd.
2. Cummins Research and Technology India Pvt. Ltd.*
3. Cummins Generator Technologies India Pvt. Ltd.
4. Cummins Technologies India Pvt. Ltd.
5. Tata Cummins Pvt. Ltd.
6. Fleetguard Filters Pvt. Ltd.
7. Valvoline Cummins Pvt. Ltd.
8. Cummins Sales and Service Pvt. Ltd.
(Formerly known as Cummins Svam Sales & Service Limited)

Business Units:

- Engine Business
 - HMLD + HHP
 - ReCon
- Power Generation Business
 - Generators
 - Alternators
- Component Businesses
 - Filtration
 - Emission Solutions
 - Turbo
 - Fuel Systems
 - Electronics
- Distribution Business (1 PDC/ 5 Zonal Offices / 21 Area Offices / 212 Dealer sites, 1 service JV)
- Lubricants

Shared Services: CBS/Cummins Technical Center India (CTCI) /IPO/Internal Audit/ Global Analytics Center (GAC)



Cummins in India Strategy

Strategy

Overview

Enhance Domestic Market Leadership

- Grow market share through adjacencies and leverage emissions to grow Components business
- Defend and grow engine and genset market share with fit for market products
- Excel in supporting customers

Maintain Low Cost Producer Status

- Reduce extended supply chain costs continuously
 - Accelerated Cost Efficiency (ACE), Six Sigma, Total (Cost) Reduction Indirect Material & Services (TRIMS), Synchronized Business Planning (SBP)

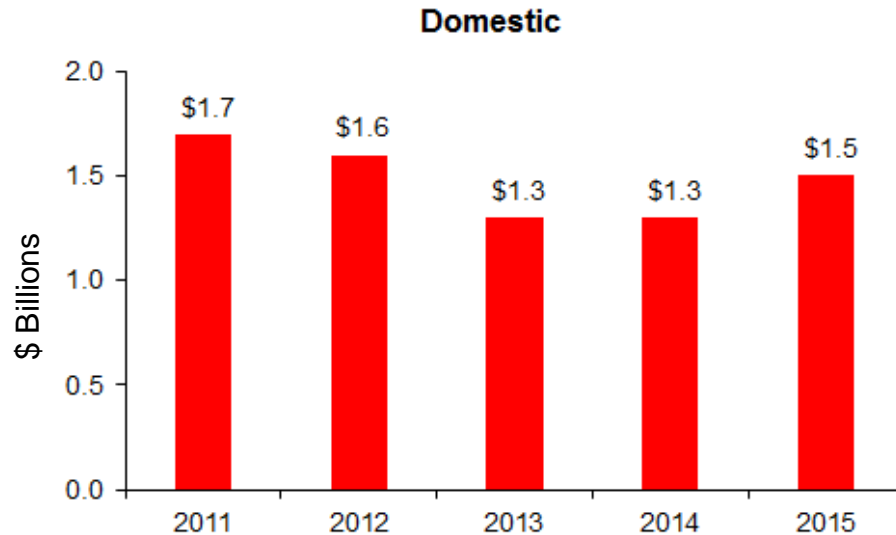
Maximize Exports from India to CMI

- Low kVA Gensets, QSK 23 / 60 Engines, Turbos, ReCon parts, Components

Great Place to Work

- Cummins Megasite, Office Campus, Technical Center
- Hire to develop diverse talent
- Leadership development

India ABO Domestic Sales



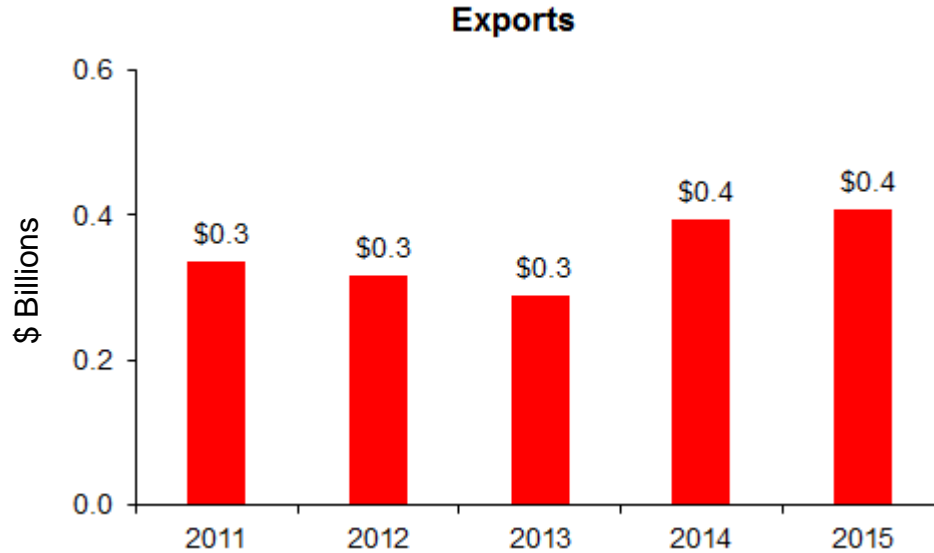
- Present in India for over 50 years
- Market leadership
- Strong OEM relationships
- Expanding our markets

Domestic consolidated + unconsolidated revenue

KPIT Cummins excluded from Joint Venture Sales Unconsolidated beginning 2013 due to reduction in ownership interest



India ABO Exports



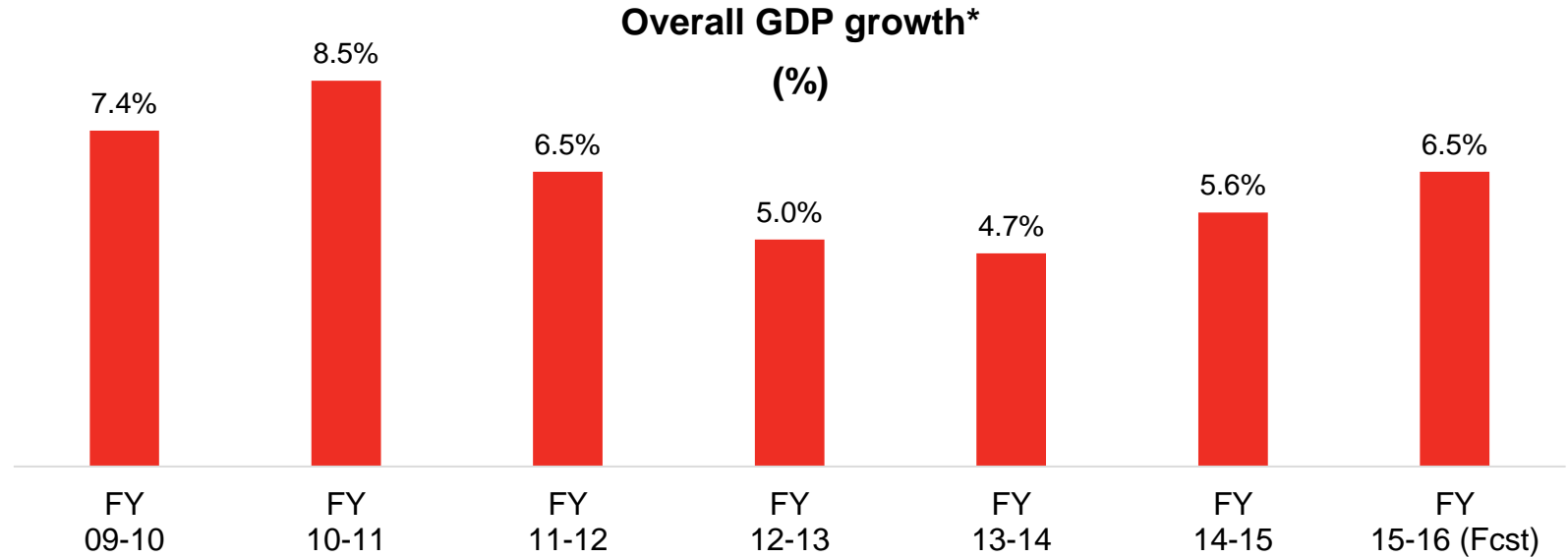


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Economy showing signs of recovery albeit slower than expected

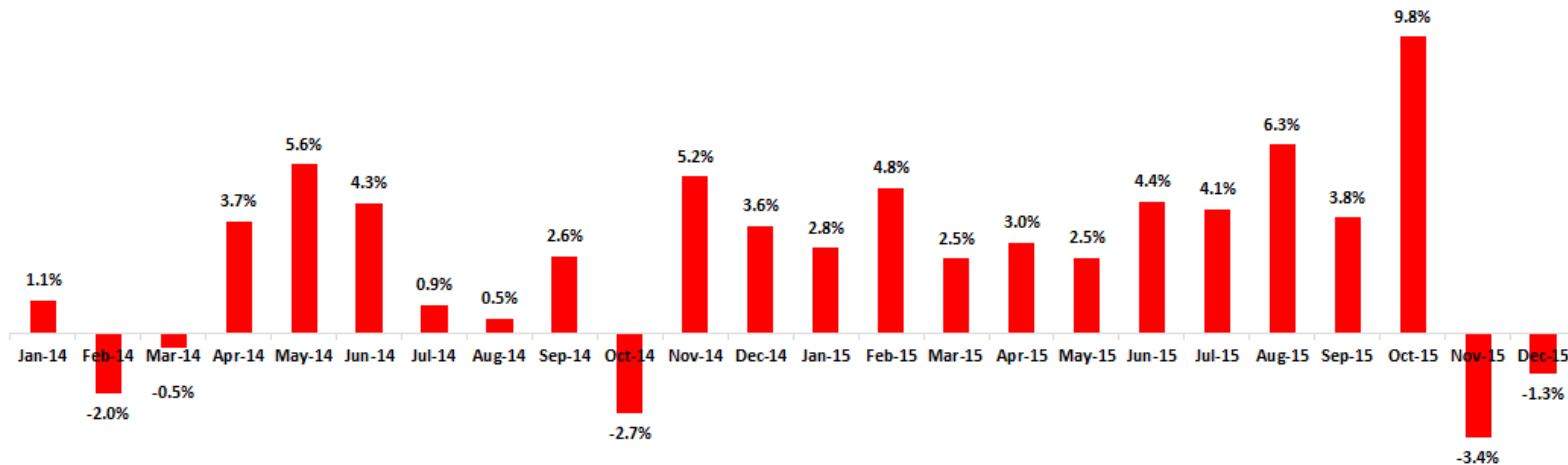


* GDP numbers are at factor cost

Govt. has shifted to new method of calculating GDP at market prices which increases rate by 1 to 1.5% points

Index of Industrial Production

IIP Growth (Y-o-Y)



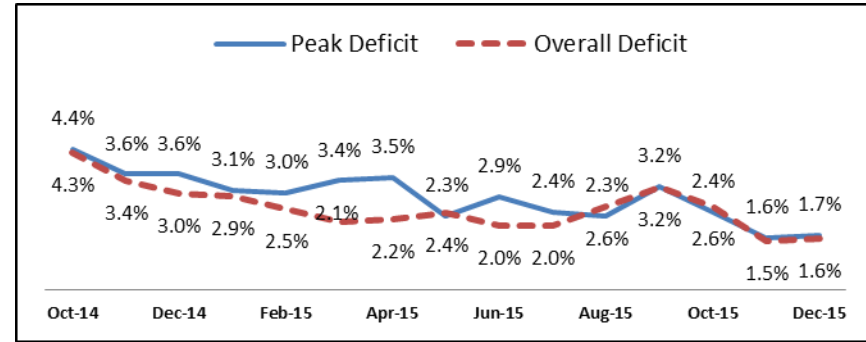
- Index of Industrial Production (IIP) at (1.3)% for December 2015
 - Manufacturing sector contracted 2.4% in December 2015 impacted by Chennai floods
 - Mining and electricity grew 2.9% and 3.1% respectively in December 2015



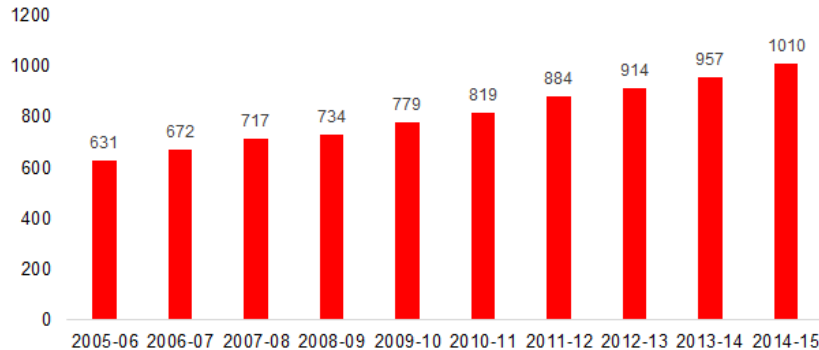
Power Sector Update

Power Demand vs. Supply Growth Dec YoY

| Region | Demand Growth | Supply Growth | Peak Deficit Dec'15 | Peak Deficit Dec'14 |
|-------------------|---------------|---------------|---------------------|---------------------|
| Northern Region | -7% | -4% | -3.2% | -6.2% |
| Western Region | 4% | 4% | -0.5% | -0.4% |
| Southern Region | -2% | 1% | -1.8% | -4.7% |
| Eastern Region | 14% | 14% | -0.9% | -1.1% |
| North-East Region | -4% | 7% | -1.5% | -11.8% |
| All India | -4% | -2% | -1.7% | -3.6% |












Per Capita Electricity Consumption (kWh)



- Power demand growth subdued (~3-4% growth YoY); Peak power deficit hovering within 2-3% range
- Per-capita electricity consumption of the country has now crossed 1,000 kilowatt-hour (kWh), but still, it is far below the average global consumption.

Government Investment in Infrastructure

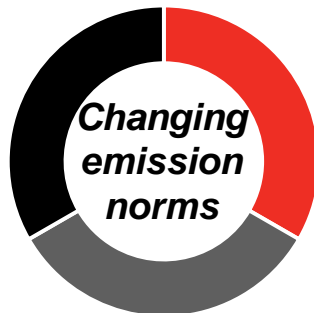
| | | 2014-15 ¹ (\$M) | 2015-16 ² (\$M) | % Growth | Key focus areas |
|---|---------------------|-------------------------------|-------------------------------|-------------|---|
|  | Roads | 4,116 | 6,260 | 52% | <ul style="list-style-type: none"> Build roads from India's west-to-east land border |
|  | Railways | 4,934 | 6,260 | 27% | <ul style="list-style-type: none"> Electrification, improvement of speed of trains and safety |
|  | Shipping | 74 | 146 | 97% | <ul style="list-style-type: none"> Port connectivity and inland water ways National waterways development |
|  | Defense | 36,766 | 38,607 | 5% | <ul style="list-style-type: none"> Build indigenous combat vehicles, warships, etc. |
|  | Industry & minerals | 6,459 | 6,745 | 4% | <ul style="list-style-type: none"> Permission to private companies to mine and sell coal in the open market |
|  | Energy | 25,393 | 26,182 | 3% | <ul style="list-style-type: none"> 5 ultra mega power projects (coal-based) planned (4000 MW each) |
|  | Smart cities | 398 | 923 | 132% | <ul style="list-style-type: none"> Build 100 smart cities in India |
|  | Ports | 41 | 61 | 49% | <ul style="list-style-type: none"> Corporatization of public sector ports |
|  | Urban development | 1,266 | 1,570 | 24% | <ul style="list-style-type: none"> Affordable housing, sanitation and development |

Emission norms are gaining traction

HMLD on-highway

Changing Emission Norms

- BSIV
 - PAN India implementation in April 2017
- BSV and VI
 - The latest direction is the possibility to skip BSV due to environmental concerns and implement BSVI from April 2020 for new models and 2021 for old models



HMLD off-highway (wheeled)

Changing Emission Norms

- Currently, Bharat Stage III (CEV) (equivalent to Euro Stage IIIA) are applicable for wheeled vehicles
- Proposal for introduction of Bharat (Non-road) stage IV norm by 2020 for wheeled vehicles

Power Generation

Changing Emission Norms

- Discussion underway for CPCB II norms to be applied for > 800 kWm gensets at IDEMA
- Discussions required to deliberate < 800 kWm move to CPCB III for all nodes



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Power Generation Overview

Key Trends / Drivers

- Thrust on industry and infrastructure development expected to increase power demand
- Power deficit expected to continue at current levels of 2% due to:
 - Unreliable utility power and unstable grid supply
 - High T&D losses and dismal state of Discoms
- Modest growth in gross fixed capital formation expected (may accelerate if economy improves)

Power generation market





| Segment | Total Market Size (\$ M) | Genset* Sales (\$ M) | Cummins Market Share % | Strengths |
|--------------------------------|--------------------------|----------------------|------------------------|--|
| R-LHP 7.5 - 62.5 kVA | 312 | 44 | 14% | <ul style="list-style-type: none"> • Leverage existing MHP/HHP customer base • Service network |
| LHP 70 - 160 kVA | 129 | 49 | 38% | <ul style="list-style-type: none"> • Superior quality product • Leverage existing MHP/HHP customer base • Service network |
| MHP 180 - 500 kVA | 202 | 103 | 51% | <ul style="list-style-type: none"> • Product leadership • Strong GOEM channel • Service network |
| HHP >500 kVA | 218 | 122 | 56% | <ul style="list-style-type: none"> • Established products and local manufacturing • Strong GOEM channel • Service network |
| Total | 860 | 318 | 37% | |

HHP Overview

Key Trends / Drivers

- **Rail** – Government’s increased focus on speed, safety, connectivity and enhanced capacity
- **Mining** - Increased privatization and impetus towards higher production of coal by government. Movement towards higher tonnage dump trucks
- **Marine** - Fleet expansion and modernization by Indian Navy, Coast Guard leading to demand
- **Oil & Gas** – Increase in gas distribution stations (IGL, MNGL etc.) – Gas compressor market; consistent demand for offshore emergency DG market

HHP

| Segment | Total Market Size (\$ M) | Addressable Market Size (\$ M) | Cummins Sales 2015 (\$M) | Cummins Market Share % | Strengths |
|---|--------------------------|--------------------------------|--------------------------|------------------------|---|
|  Rail | 113 | 20 | 16 | 80% | <ul style="list-style-type: none"> • Strong position in DEMU and Power Car. • Service network |
|  Mining | 33 | 33 | 10 | 42% | <ul style="list-style-type: none"> • Major Product Dump Truck • Service Network |
|  Marine | 25 | 19 | 7 | 35% | <ul style="list-style-type: none"> • Market share mainly DG set and Main Propulsion • Indian shipyards attracting orders from other countries(Sri Lanka, Mauritius) |
|  Oil & Gas | 9 | 5 | 2 | 41% | <ul style="list-style-type: none"> • City Gas Distribution market picking up • Entry into Off-shore Crane market |
| Total | 180 | 77 | 35 | 46% | |

Rail: Total market includes Mainline Loco (\$ 94 M)

Mining: Market share represents secondary sales data, BEML supply to end users

Marine: Total Market includes Main propulsion >2500HP and fishing trawler market (\$ 3 M)



Oil & Gas: Total market includes >500HP zone II engines

HMLD Off-Highway Overview

Key Trends / Drivers

- Gov investing in building roads at the rate of 30 km/day (current 15 km/day)
- Government's push for affordable housing, sanitation and urban and rural development
- Government's plan to build 100 smart cities
- Global OEMs using India as a base for exports

HMLD Off-Highway





| Segment | | Total Market Size (\$ M) | Addressable Market Size (\$ M) | Cummins Sales 2015 (\$ M) | Cummins Market Share % | Strengths |
|--|------------|--------------------------|--------------------------------|---------------------------|------------------------|---|
|  Compressor | Portable | 7 | 7 | 4 | 58% | <ul style="list-style-type: none"> • Strong leadership in the Water Well Drill Rigs market for past one decade • End-user pull for Cummins powered compressors in Water Well Drill Rigs • Robust application-engineered compressor packages • Widespread and capable service network |
| | Water-well | 15 | 15 | 15 | 99% | |
|  Construction | | 122 | 52 | 26 | 52% | <ul style="list-style-type: none"> • Leadership in the 6-cylinder business space in applications like 20T Excavators, Compactors and Wheel Loaders • Strong value proposition over price competitive engine suppliers • Strong engagement and relationship with key OEM's like JCB, Hyundai and Tata Hitachi • One engine (6B) – globally supported |
| Total | | 144 | 74 | 45 | 61% | |

HMLD On-Highway Overview

Key Trends / Drivers

- Fuel economy will continue to be a major driver
- BSIV emission norms to be implemented nationwide by Apr-2017
- Likely introduction of GST to help development of hub and spoke model the full impact of which would be seen in 3- 4 years time
- Migration to higher tonnage nodes expected due to growth in infrastructure
- With initial acquisition cost going up with BSIV systems, fuel economy, reliability and durability will be critical
- Bus body code expected to bring additional safety requirements

HMLD On-Highway

| Segment | Market Size (#000) (\$ M) | | Cummins Sales (#000) (\$ M) | | Cummins Market Share %* | Strengths |
|---|------------------------------|------------|--------------------------------|------------|----------------------------|--|
|  7.5-12T | 41 | 96 | 3 | | 7% | <ul style="list-style-type: none"> Market share mainly in defence application |
|  12-16T | 59 | 165 | 9 | 333 | 16% | <ul style="list-style-type: none"> Strategically, TML using own engine in this segment Customer perception of durability especially in overloading segment |
|  >16T | 167 | 470 | 106 | | 63% | <ul style="list-style-type: none"> Cost competitive and reliable FFM 5.9 litre product |
|  Bus | 53 | 139 | 12 | 29 | 22% | <ul style="list-style-type: none"> Wide OEM sales and service network with TML |
| Total | 320 | 871 | 129 | 362 | 40% | |

* Market share based on volumes.

Market size - 2015 production volumes as per SIAM data.



Components (Turbos) Overview

Key Trends / Drivers

- Emissions – BS IV PAN India implementation in April 2017. Possibility to skip BSV implement BSVI from April 2020 for new models and 2021 for old models
- MHCV - Implementation of GST would support the hub and spoke model driving sales towards HCVs/trailers and ICVs further
- Bus - Demand for MHCV buses would be supported by increased mobility needs under 100 smart cities program and the AMRUT initiative

Components (Turbos)

| Segment | Total Market Size (\$ M) | Cummins Sales (\$ M) | Cummins Market Share % | Strengths |
|---------|--------------------------|----------------------|------------------------|--|
| Turbos | 93 | 52 | 56% | <ul style="list-style-type: none">• Number one player in >3.5T CV Segment• Drastically improved market share with Major (non EBU) OEM's last year• Targeting to increase its presence in LD segment by introducing C6 product |



Exports: Key Growth Drivers

- Low kVA – Enable exports business growth by continued focus on Cost, Products, Quality & Lead Time
- HHP - Shifting of K19/Q19 production from Seymour Engine Plant (SEP) to PHP
- CTCI - become technology leader in emerging markets such as India, to grow market share and enable end to end product development for Cummins
- GAC - Create world-class capabilities in the area of data analytics which would support CMI in achieving the growth plans

Cummins India Ltd

- Established in 1962, 51% subsidiary of Cummins Inc.
- Manufactures a variety of engines operating on diesel, natural gas and dual fuel
- Provides innovative solutions across Industrial, Power Generation and Automotive applications and service support
- Manufacturing capacity of over 75,000 engines p.a.
- Plants manufacture engines of various models – NTs, V28, K/KV & Q series
- Amongst India's largest exporters of Engineering Products
- 5 plants : Kothrud, Pirangut & PDC plant at Phaltan and PGBU-SEZ



Kothrud, Pune



Pirangut



PGBU SEZ, Phaltan



PDC, Phaltan



Tata Cummins Ltd (TCL)

- Established in 1993
- 50:50 joint venture between Tata Motors Limited and Cummins Inc.
- Manufactures engines operating on diesel
- Caters to Automotive, Commercial Vehicle Industrial and Power Generation markets
- Manufacturing capacity of 250,000 engines per annum
- Plants manufacture engines of various models – B Mech, ISBe, ISLe, QSB & QSL
- 3 plants: 2 plants at the Megasite and 1 plant in Jamshedpur



Tata Cummins plant I
Jamshedpur



Tata Cummins plant II
Phaltan



Tata Cummins plant III -
Phaltan

Megasite Transformation

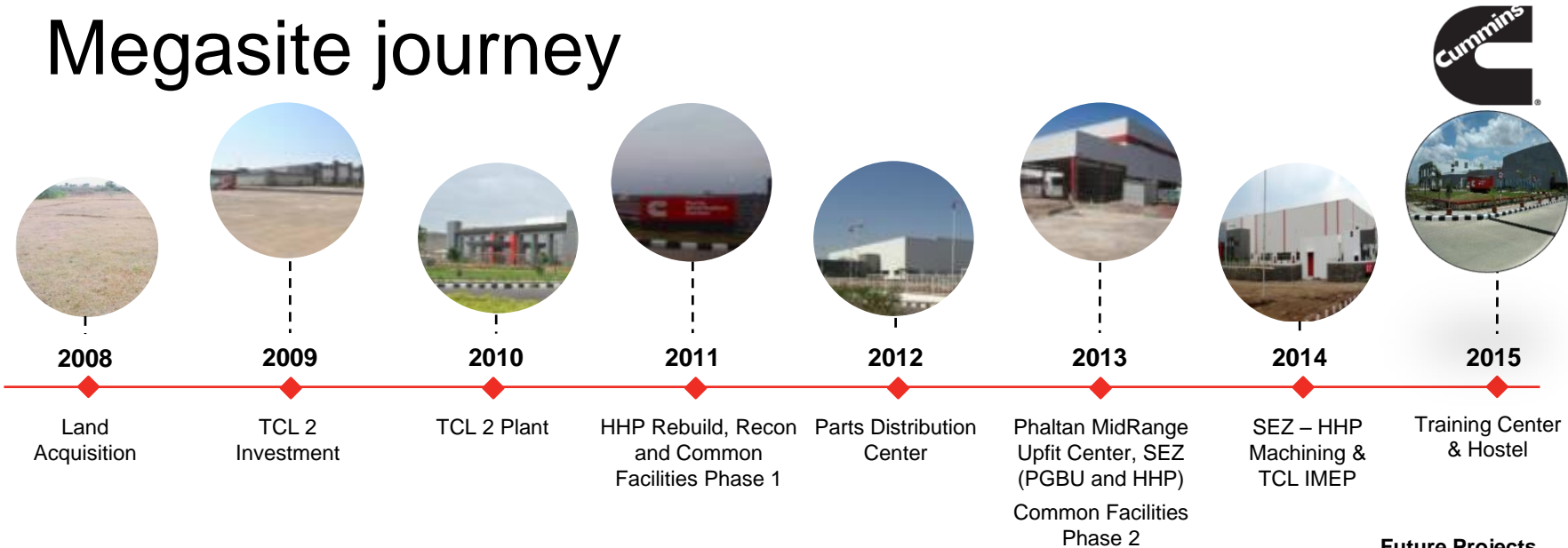


2007



2014

Megasite journey



- We outgrew our existing facilities by 2006 and needed to create a Megasite
- Phaltan selected because of:
 - Availability of land for expansion
 - Fiscal incentives
 - Ability to locate export zone close to domestic plants
 - Land costs
 - Lower labor costs

Future Projects

- Fuel System
- Emission Solution

Megasite: DTA & SEZ – 225 acres



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| | |
|--|-----------------------------------|
| Tata Cummins II (Q4 2010) | B Series engines |
| High HorsePower Rebuild Center (Q1 2011) | MidRange, Heavy duty, HHP engines |
| ReCon (Q1 2011) | Components |
| Parts Distribution Center (Q1 2011) | Parts warehouse |
| Phaltan Midrange Upfit Center (Q1 2013) | B,C,L series upfit |
| Power Generation (Q2 2013) | Gensets and energy solutions |
| Engine Business QSK Engine (Q2 2013) | QSK 23, 60 Series engines |
| India MidRange Engine Plant (Q1 2015) | L, B, series engines |
| Fuel Systems (2016-17) | Fuel systems |
| Emission Solutions/ Power Generation (domestic tariff area) (2016-17) | Emission systems |

Planned

Megasite Plants



PDC



PGBU SEZ



PMUC



HHP Rebuild

Megasite Plants



PHP



TCL

Cummins Technical Center in India Overview

- **CTCI Building**
 - To provide a state-of-the-art technical center for the best Engine, Components and Power Generation company in the world. The objective of such an investment is:
 - To provide a global facility benchmark for the other locations to follow
 - To interface seamlessly with Cummins global entities and to serve Cummins' worldwide technical organizations
 - To be an integrated and aligned Technical organization that serves the needs of every business both in India and worldwide
 - to provide the necessary global competitive edge and also leverage the vast technical talent pool. This building would house approx. 2500 engineers.

- **CTCI/EBU Test cell/ Labs**
 - Investing technical capital in capability development to support global and regional requirements. Also become technology leader in emerging markets such as India, to grow market share and enable end to end product development for Cummins.

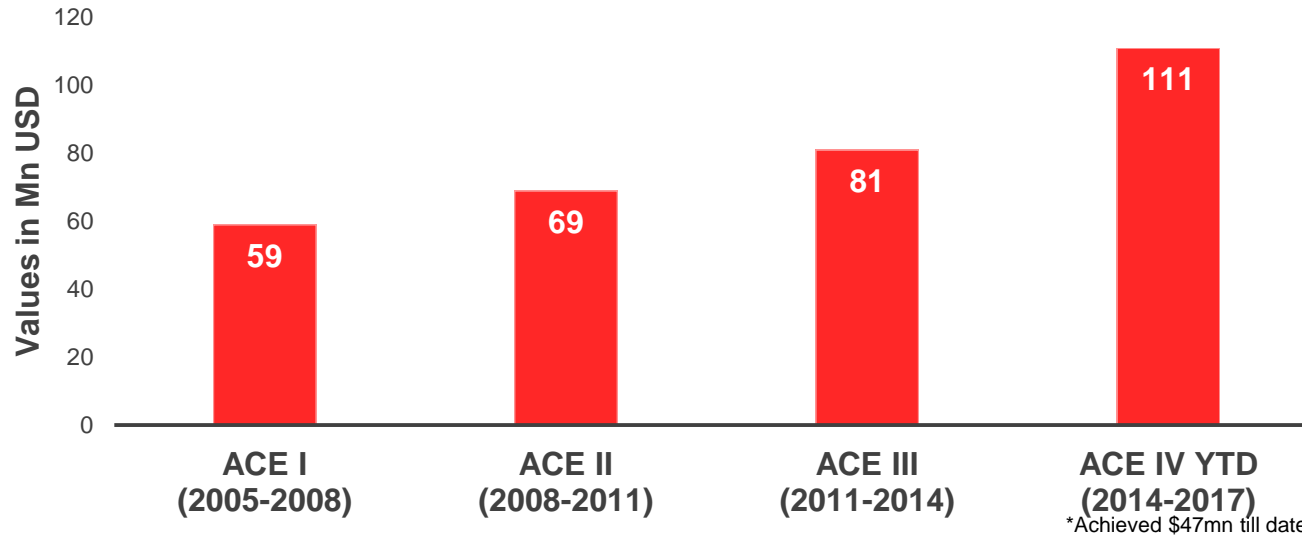


A 'Global Integrated Technical Organization' to design technologies for the future for all businesses, both in India and worldwide



Accelerated Cost Reduction - Direct Purchasing

Accrued Saving



- ACE I started in 2005 with 4 entities
- ACE II onward increased focus on Localization and Resourcing project
- ACE III, best in ACE journey
- ACE IV Launched with 10 BU

Achieved savings of 2.0% - 2.5% of material cost

Considered Exchange rates are average of 3 Years for ACE Programs. Source for exchange rate: RBI Website

ACE I 1USD = 43.1 INR

ACE II 1USD = 46.53 INR

ACE III 1USD = 55.55 INR

ACE IV 1 USD = 60.80 INR

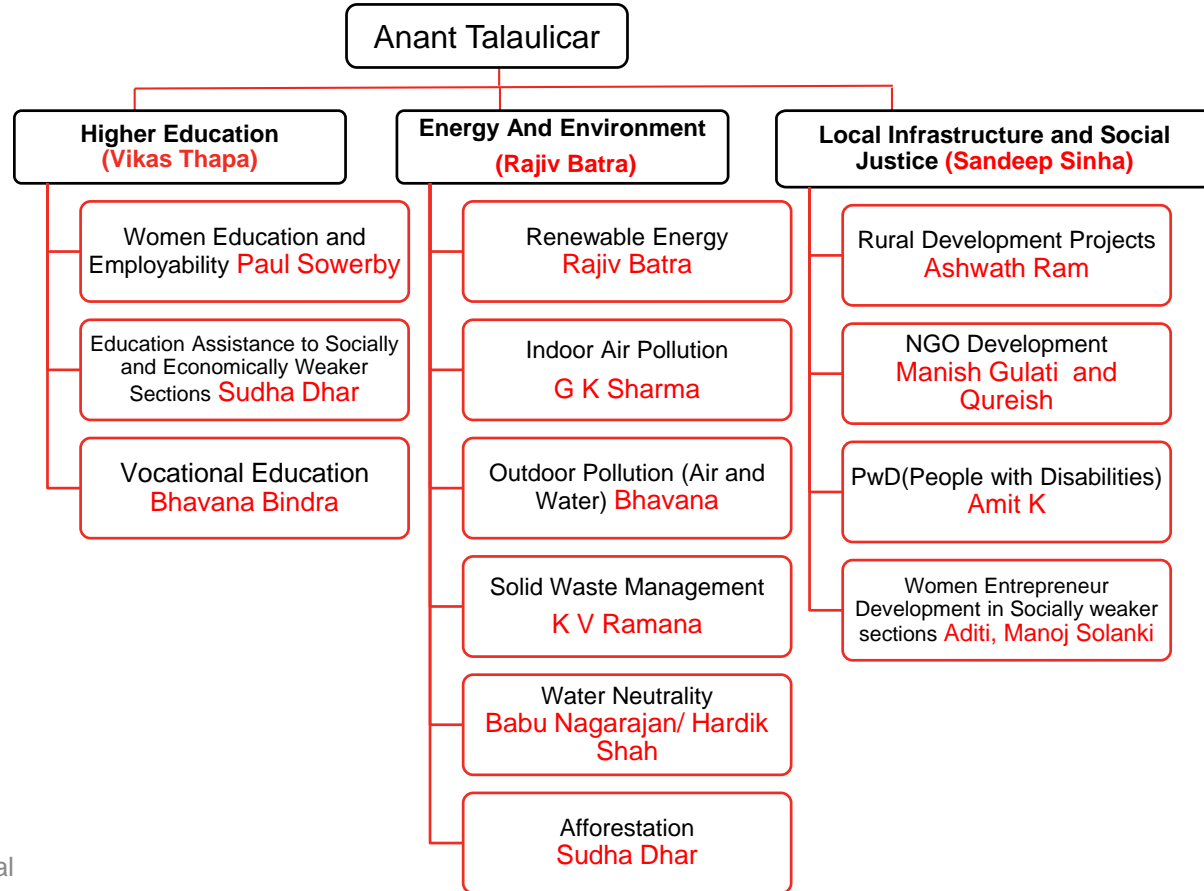
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Agenda

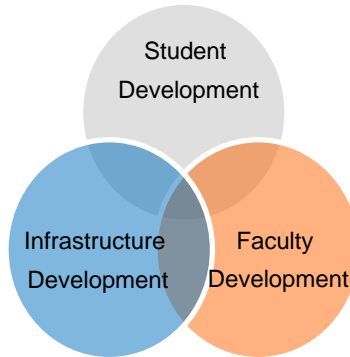
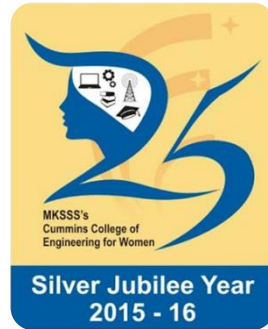
- Cummins in India
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CR Focus Area and Themes



Higher Education: Strategic Project

Cummins College of Engineering for Women



About the Project

- India's 1st **engineering college exclusively for women** set up at Pune in 1991 with a \$ 130k corpus from Cummins India Foundation
- In partnership with Maharshi Karve Stree Shikshan Sanstha
- Cummins Signature project** with the aim of being in the top 5% of privately managed Engineering colleges for UG in India by 2017. \$ 1.6 Mn funding from Cummins

From **3 UG** branches and **180** students in 1991 to **5 UG** and **2 PG** branches and **600** students in 2015.

6750 women engineers have passed out till 2015

Cummins Fellowship program from 2004 at Purdue: **38** students have benefitted

More than 70% students recruited on campus

Cummins senior management direct involvement

Academic Autonomy in 2016-17

Energy and Environment



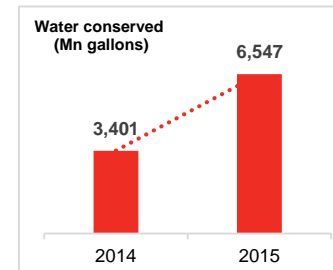
Initiative

Water Neutrality

Led by
Babu Nagarajan
and
Hardik Shah

Description

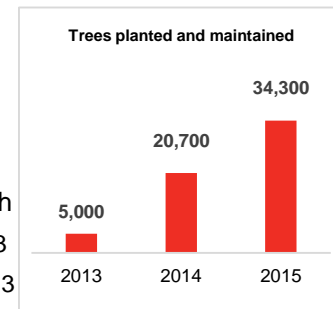
- Number of Water Neutral sites : 20 of 21 (except TCL Jamshedpur, to be neutral by 2016)
- Total water conserved
 - In 2015- 6,500+ Mn gallons (~10,000 Olympic sized swimming pools)
 - In 2014- 3,000+ Mn Gallons
- Water consumption in 2014 across all plants is 145 Mn gallons



Afforestation

Led by
Sudha Dhar




- Equivalent of 19610+ MT CO₂ footprint avoided
- 13,000+ trees planted and 30,000+ maintained in 2015
- Initiative had notable organic growth with
 - 4 NGO partners in 2015 v/s 1 NGO 2013
 - Plantation at 6 Sites in 2015 v/s 1 in 2013



Energy and Environment

| Initiative | Description |
|---|---|
| <p>Solid Waste Management</p> <p>Led by K V Ramana</p> | <ul style="list-style-type: none"> House hold level Wet waste management project completed at Semi-urban community at Kasarabmoli, Pirangut Various projects executed under this initiative: |
| | <p>Nirmalaya</p> <p>Employees created human chain to protect water bodies from harmful substances during festivals such as Holi, Ganesh festival and others</p> |
| | <p>Plastic & e-waste</p> <p>Awareness, collection and recycling of plastic and e-waste (non biodegradable solid waste) by involving school children in Pune, India</p> |
| <p>Awareness at popular streets</p> <p>Popular actor roped in for project</p> | <p>Pollution prevention during Festival times</p> <p>Prevent air, water and soil pollution during festival times, promote ecofriendly festival celebration, prevent hearing damage to animals, discourage people from buying crackers, prevent child labor</p> |
| | <p>Zero Garbage</p> <p>Ensure segregation at source of waste (wet & dry) by creating awareness</p> <p>Converting wet waste into energy (powering streetlights & toy train at Katraj ward) – 6B5.9 (45kVA) Generator Set</p> <p>Demonstrating self sustainable revenue generating model through Toy train</p> |

Energy and Environment

| | Initiative | Description |
|---|--|---|
|  | <p>Outdoor Pollution Led by Bhavana Bindra/GK Sharma</p> | <p>Aimed to improve Community Health by reducing HC, CO and PM components of air caused by unregulated diesel generator sets in use</p> <p>This will be achieved by retrofitting the gensets with catalysts to help the environment</p> |
|  | <p>Indoor Pollution Led by GK Sharma</p> | <p>To reduce the problem of Household Air Pollution (HAP) through the adoption of clean cook stoves in Model Village households</p> <p>Analysis-led design approach by CRTI has been utilized to design the energy efficient cook stoves</p> |
|  | <p>Renewable Energy Led by Rajiv Batra</p> | <p>Designed a gas filtration system for 6B engine for rural electrification using Husk biomass at Husk Power site with the following objectives:</p> <ul style="list-style-type: none"> ▪ Power requirement ▪ Engine rating ▪ Gas Filtration system <p>Cummins converted one 6B 5.9 engine to 6BTA5.9 to run on Woody biomass based producer gas energy system and installed at PMUC, Megasite</p> |

Strategic Project: Khadakwasla Dam (Water Neutrality)

About the Project



- Built in 1889, Khadakwasla dam is one of the main source of water for Pune city today
- Due to deforestation in the catchment area, the top soil has been washed off into the dam over the years

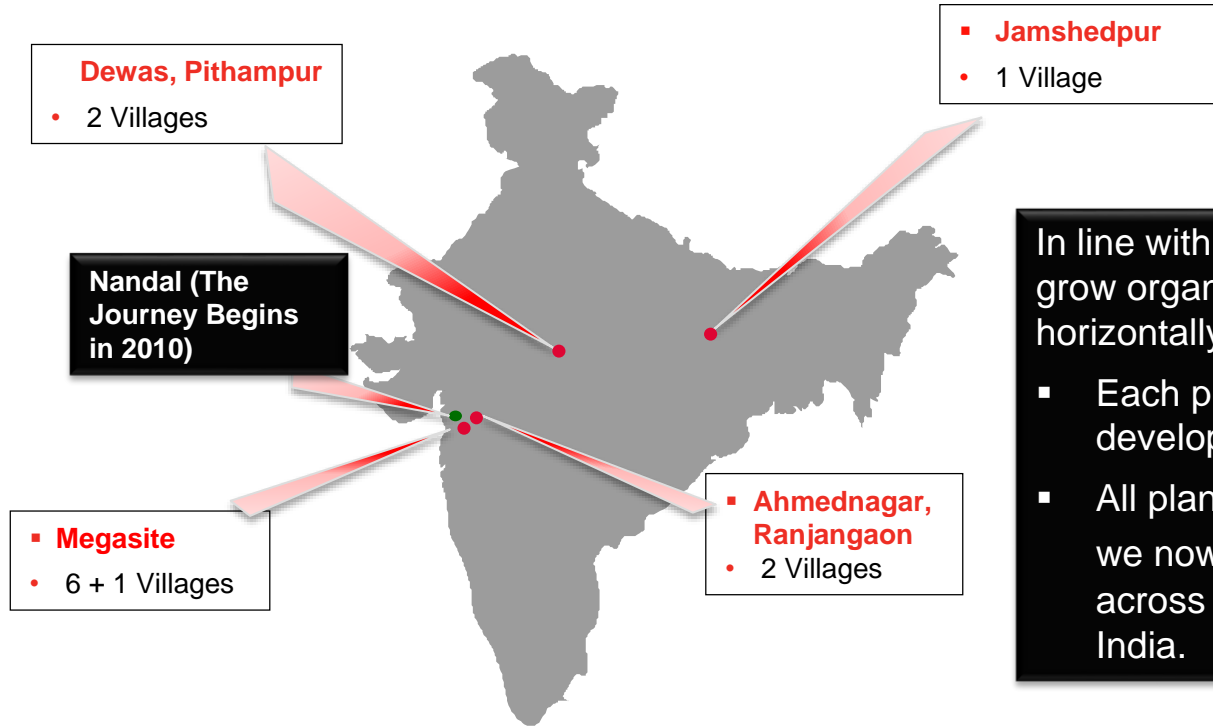


- In partnership with NGO, Cummins began the de-silting of Khadakwasla Dam in 2013. Since then:

Water conserved equivalent to
10,000 Olympic sized
swimming pools in 2015

5,000 Trees Planted in 2015
3 sq.km area water harvested in
dam from adjacent area

Local Infrastructure & Social Justice: Model Villages



In line with India ABO CR strategy to grow organically and replicate horizontally,

- Each plant location is working on development of model villages
- All plants have one model village, we now have **12** model villages across Cummins locations in India.



Thank You