

Subir Pal, October 17th 2013, Nashik

ABB India, Analyst meet 2013 Market outlook



Safe-harbor statement

This presentation includes forward-looking information and statements including statements concerning the outlook for our businesses. These statements are based on current expectations, estimates and projections about the factors that may affect our future performance, including global economic conditions, and the economic conditions of the regions and industries that are major markets for ABB Ltd. These expectations, estimates and projections are generally identifiable by statements containing words such as "expects," "believes," "estimates," "targets," "plans," "outlook" or similar expressions.

There are numerous risks and uncertainties, many of which are beyond our control, that could cause our actual results to differ materially from the forward-looking information and statements made in this presentation and which could affect our ability to achieve any or all of our stated targets. The important factors that could cause such differences include, among others:

- business risks associated with the with the volatile global economic environment and political conditions
- costs associated with compliance activities
- raw materials availability and prices
- market acceptance of new products and services
- changes in governmental regulations and currency exchange rates and
- such other factors as may be discussed from time to time in ABB Ltd's filings with the U.S. Securities and Exchange Commission, including its Annual Reports on Form 20-F.

Although ABB Ltd believes that its expectations reflected in any such forward-looking statement are based upon reasonable assumptions, it can give no assurance that those expectations will be achieved.



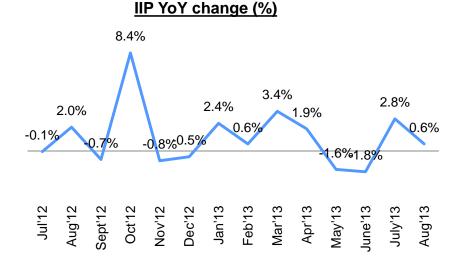
India Long term growth drivers

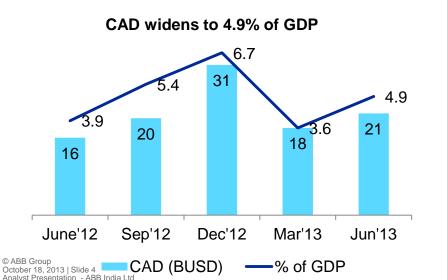


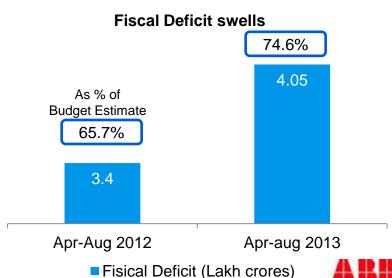


Economic Outlook Policy support required...impact of elections unknown

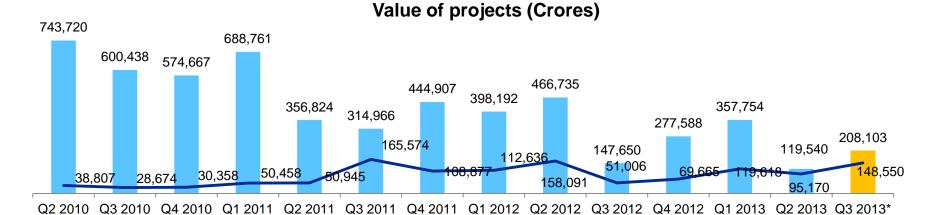
Real GDP Growth (%) 9.7% 9.3% 7.9% 7.4% 7.2% 6.5% 6.0% 5.0% 4.6% Max — → – Avg 2005-09 2009-12 2015-20F 2013-14E







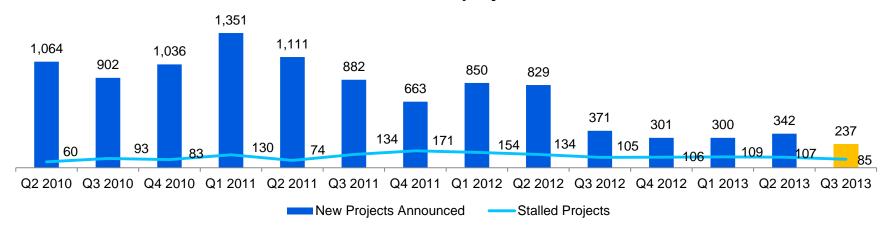
Project data New projects still at a dismal state



Number of projects

Stalled Projects

New Projects Announced





Growth areas Balancing traditional market slowdown

Urbanization



Tier 2 metro & DFCs

Buildings

Data centers

SVC & WAMS

Distribution Franchises

PF regulations

Perform, Achieve, Trade

Process Optimizations

Power Factor corrections

Grid connected solar

Wind

Potential Market -Next 5 Yrs

~20,000 Cr

HVDC

~ 6000 Cr

~ 23,000 Cr

~ 18000 Cr

Energy Efficiency

Renewable Energy

Grid reliability & interconnection

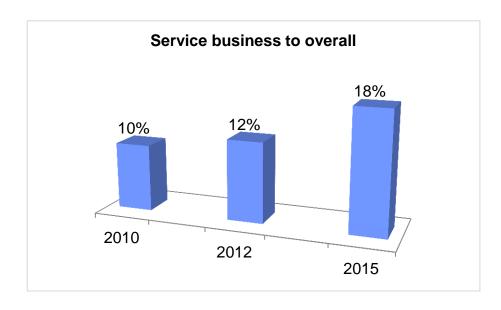




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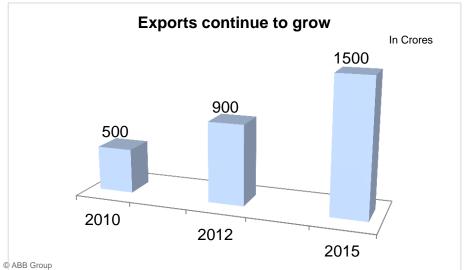
Analyst Presentation - ABB India Ltd

Accelerating growth in services & exports



Service Portfolio

- Spares and Consumables
- Maintenance & Repairs
- Engineering & Consulting
- Extension, Upgrades, Retrofit
- End-of life services
- Training



Our Export offerings

 HV Breakers, MV Switchgear, Transformers, Substations, MCBs, LV Systems, Plant automation

Geographies

Europe, Americas, South Asia, Middle East & Africa



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Nashik, Maharasthra

ABB India Limited – Export Portfolio

Power Products – High Voltage



Circuit Breakers



Instrument Transformers



Disconnectors



Capacitors

Power Products – Medium Voltage



11kV/33kV Indoor S.gear / Unigear Panels



SF6 Circuit Breaker



Indoor / Outdoor Ring Main Units

Power
Products –
Transformers



131 MVA – Energy Ventures, Malyasia



25 MVA – EEPCO Ethiopio



570 MVA Generator Trafo for Bangladesh thru ABB Singapore



ABB India Limited – Export Portfolio





Seamless Tube Mill in Saudi Arabia



Substation project in Sri Lanka

Low Voltage **Products**



Contactors



MCB s



Switch Fuse



Switches OS 200A to 800A



MNS Switchboards

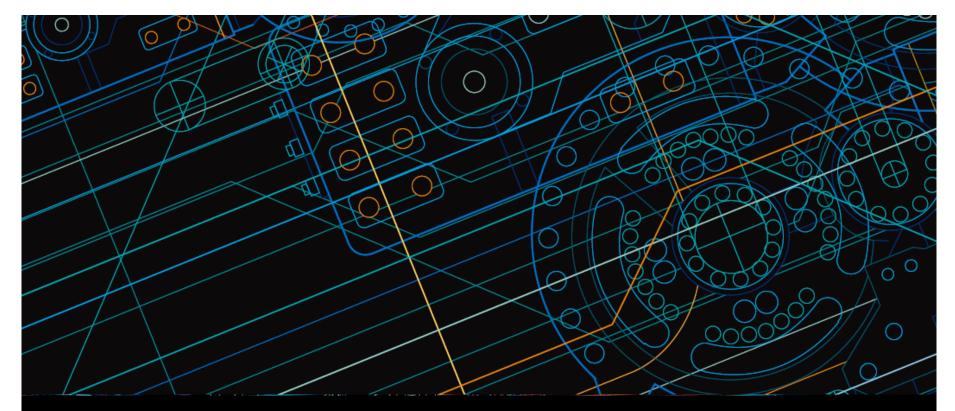


Key Sectors 2014 Outlook

Customer	Segment investment growth/outlook		
Segment	2013	2014	
Steel	•	1	
Cement			
Oil & Gas		Î	
Mining			
Paper	—		

Customer	Segment investment growth/outlook		
Segment	2013	2014	
Power Generation	•		
Power T&D			
Renewable- Solar			
Renewable- Wind			
Railways	Î		





October 17th 2013, Tajinder Vohra

Operations & supply chain

Creating Competitive Operations Scope and Scale

Material Costs

Material Costs Improvement

- Negotiations, Localization
- Redesign, Indigenization
- Project Execution
- Global Contracts

Operating Expenses

(personnel, other operating costs)

Operating Costs/Other Cost Improvement

- Footprint Rationalization
- Manufacturing productivity
- Quality improvement
- Factory Upgrades

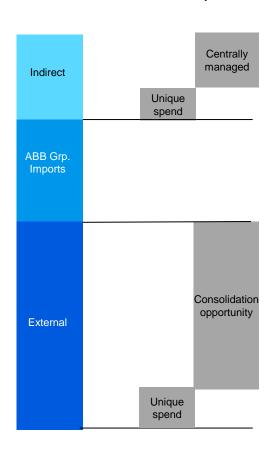
Resources and teams in Place

- Supply Chain and Operation Excellence team at India level – 400+ people
- 18+ In country for country Indigenization projects underway
- 300+ Operational Excellence projects underway
- Country level Technology Organization

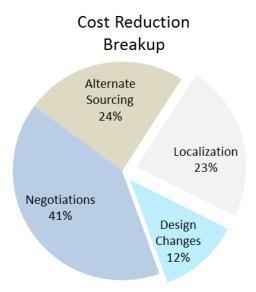


What are Supply Chain opportunities in India A supply side perspective

Addressable Spend



- Over 50 % of external spend covered by top 10 categories
- Leveraging global contracts across Steel, Castings, Transportation etc.
- Capitalizing on overcapacity in Supply Base
- Country Technology teams driving design changes for cost and localization





Material cost Some traction already but significant opportunities



Material Cost as percentage of Revenue Down from 74% in 2011 to 70% in 2013

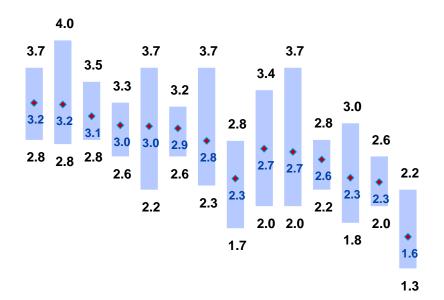
	2011	2012	2013	2014
Leadership Upgrade	Central Team formed	Upskilling - 3 new Divisional SCM Heads in place	Strategic Sourcing leader in place	LBU Leadership
Commodity Teams		Strategic Sourcing Process (CIPS) initiated	multi-divisional category teams getting staffed	Increased Maturity
Supplier base consolidation		Preliminary Analytics done	Cross Divisional consolidation to begin	Supply Base Reduction
Global Initiatives – eAuction etc.		eAuctions done in PA	Increase eAuction	eAuction in Product Businesses
Contract compliance		Unified templat ready	e Get contracts in place with Suppliers	Contract Adherence
Indigenization and localization		Technology organization new leader in place		Value Engineering



Manufacturing Operations Assessment Leveraging Global resources to improve operations

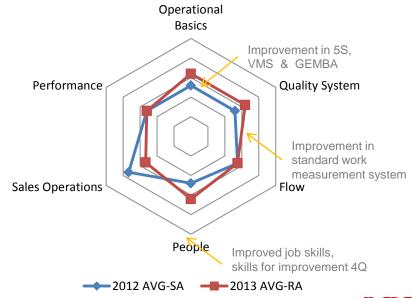
Scores across ABB India

(1 - low, 5 - highest)



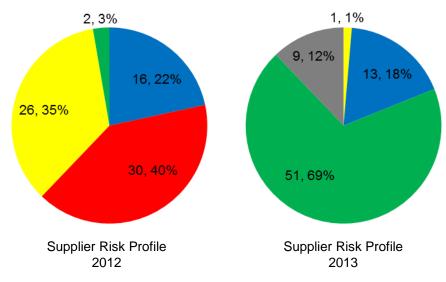
Improvements seen in the 2013 independent Reassessments done

- 53 assessments completed (36 self, 17 Independent)
- Perceptible improvement in last twelve months





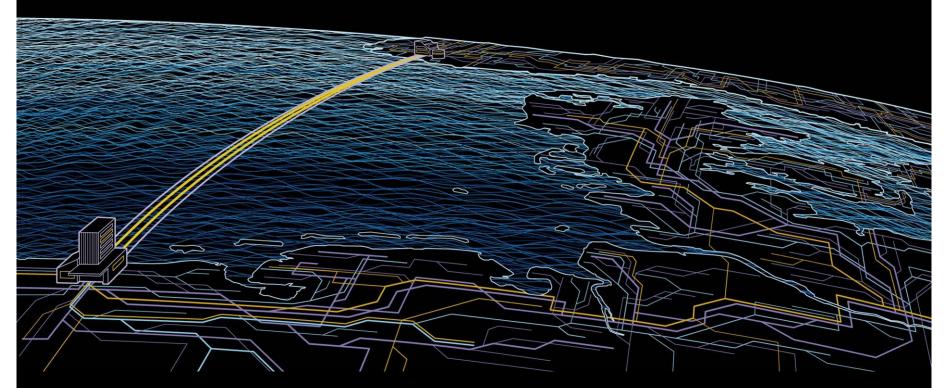
Sustainability in Supply Base Moving India Supply base to global levels



- Extremely High Risk: Lack of consent to operate /environmental licenses, fire protection, worker safety, no ESI/PF for workers, having child labour/forced labour etc
- High Risk: Lack of legal documentation, excessive overtime hrs, less than legal wages, no proper waste management, no health & safety/environment risk assessment etc
- Medium Risk: Suppliers having assessment score between 60-80%
- Low Risk: Suppliers having assessment score more than 80%

- 74 suppliers audited between 2009-2012 for adherence to Supplier Code of Conduct
- Over 90% closure achieved in five out of six assessment categories
- 9 suppliers de-sourced from supply base due to continued non compliance
- Supplier audits conducted by an international third party audit agency
- 106 suppliers trained in ABB sustainability requirements during years 2012-13





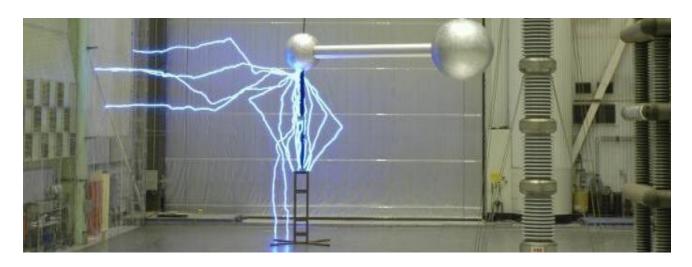
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ABB

A Technology Leader



Innovation is key to ABB's competitive advantage Leadership built on consistent R&D investment



- More than \$1.4 billion invested annually in R&D
- 8,000 scientists and engineers, >13% in India
- 20,000 engineering resource pool, >10% in India
- Collaboration with 70 universities
 - MIT (US), Tsinghua (China), KTH Royal Institute of Technology (Sweden), Indian Institute of Technology (New Delhi), ETH (Switzerland), Karlsruhe (Germany), AGH University of Science and Technology (Poland)



India contribution to ABB's technology development Local content overview

Power Products



Four global/local Technology Centers

High/Medium voltage Switchgears and Power Transformers

Complete product portfolio in three manufacturing sites

First 1200 kV transformer and Circuit Breaker developed for and installed at PGCIL

Low Voltage Products



Three global/local Technology Centers

Breakers and switches, control products, wiring accessories and cabinets

Strong focus on localizing and adapting product portfolio to local needs and export

<u>Series</u> production manufacturing technologies in focus

Discrete
Automation
and Motion



Four global/local Technology Centers

<u>Lead</u>ership in Robotics, Drives and PLCs application and engineering Software

Electronic Drives and Converters, Robotics, Motors and Generators

Special focus on Photovoltaic and Railways applications and Service technologies

Process Automation



Three global/local Technology Centers

Leadership in Plant Automation, Instrumentation and Metal Industries

Turn key projects, DCS systems, P/T/Flow Instruments, Turbochargers

Special focus on engineering for Oil&Gas, Cement, Metals, Minerals, Pulp&Paper

Power Systems



One global Technology Center

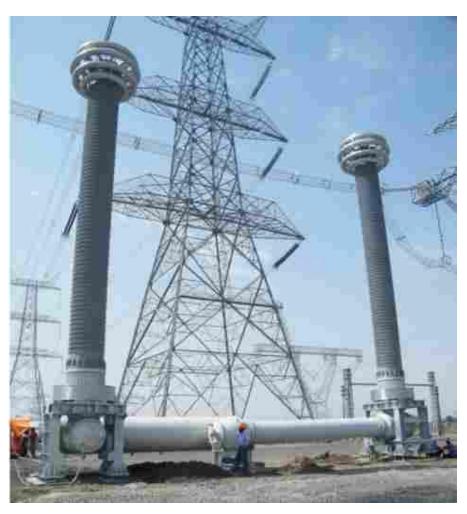
Leadership in Power Plant and Substation Automation, HVDC and FACTS

<u>Turn</u> key projects, DCS and Electric systems for power plants, Relays and Substation automation systems, Water Plants automation, Renewables, HVDC and FACTS systems



Localization 1200kV Transformer & 1200kV Circuit Breaker









Improving capacity, reliability and efficiency in the grid A pioneer in smart technologies

Challenge

 China: deliver 6,400 MW of hydropower over 2,000 km

ABB solution

- Transmission at ultrahigh voltage
- Minimal losses with direct current solution



US: Increase capacity and reliability for Texas utility

- World's largest installation enabling existing lines to carry more power
- Also enables integration of renewable energy



- India: Improve reliability in grid serving state of Karnataka (pop. 53 million)
- From transmission (400 kV) to distribution (33 kV)
- Network management with realtime control
- Key building block for smart grid
- World's largest SCADA system controlling 900 substations





Fashioning the world we will live in tomorrow Tackling challenges with customers and partners



- R&D programs focus on incremental and breakthrough developments to address challenges including:
 - Integrating renewable power sources into the grid
 - Enhancing power network efficiency, reliability and flexibility
 - Improving industrial resource efficiency and asset productivity
 - Optimizing flexibility and reliability



Outlook



Looking into the future Mixed macro trends ahead

Growth

- No contraction in demand side potential
- Large infrastructure projects yet to revive but new growth areas emerge
- Recent reforms generate hopes, cautiously optimistic

Execution

- Increase market penetration through stronger portfolio
- Aggressively capture export opportunities
- Indigenization of power products continues to drive profitability
- Sustain improvements achieved in project execution and risk mitigation
- Growing service revenues leveraging large installed base
- Scale up cost savings and productivity improvements
- Capitalize on improved customer relationship (NPS)

Cash and net working capital

- Cash over revenue
- Risk return profiling in long term projects
- Optimize cash conversion cycle



Power and productivity for a better world™

