India – Energy, environment and food

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Incredible India

- World’s 3rd largest economy by 2030
- Urbanization, 11 mln people to the cities – every year
- Population on the move, women joining the work force – up to 7 mln additional women entering every year
India
– A land in transition

* Development – economy, infrastructure, way of living
* Diversity – rural/urban, population, interstate
* Demand – changing demographics
Alfa Laval in India

- Present since 1937
- Production started in 1961
- 14 sales offices, 40 distributors
- 3 manufacturing sites
- 3 service centers
- All key technologies manufactured
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2015 OI SEK 1,081 mln
Energy

- Drivers

* Industrialization, population growth and urbanization all drive energy demand
* Total demand estimated to grow 3.4%* p.a. over next 25 years
* Electricity demand estimated to grow 4.7%* p.a.

Energy

- Opportunities for Alfa Laval

* Total power capacity will quadruple over next 25 years
* > 60% covered by conventional or nuclear power plants
* +10 power plants per year needed

>50% of India faces high/extreme water stress

Water scarcity is a risk to people, a constraint to the industry and an obstacle to economic growth

Wastewater generation grows 7-8%* p.a. and only 30% is treated

*Source: Cencere – Word Resources Institute
Governmental initiatives launched

- Namami Ganga
- Zero Liquid Discharge
- Smart Cities

>100 waste water treatment facilities by 2020
Food

- Drivers

- Rapidly growing population boosts overall demand
- More women in the work force raises demand for processed food
- Up to 40% of agricultural production is wasted during transportation, storage and food processing
Food

- Opportunity; cold storage and ripening chambers

* 25% of raw produce wasted due to improper storage
* Loss of value due to product “dry-up” and low pricing during peak of seasons
* More than 1,000 cold-storages and 8,000 ripening facilities needed!
Food

- Opportunity; vegetable oil refining

* Vegetable oil, an integral part of the Indian diet
* Consumption growing >5% per year
* More refinery capacity needed
* Some 6-8 refineries expected to be added every year
Summary

- India is on the move – but erratic
- Demand; Water, Food and Energy
- Local commitment important