

# China-India Water Shortage Means Coca-Cola Joins Intel in Fight

[Water Source](#) on 2010-5-27,09:39

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2010-05-25 16:08:53.254 GMT

By Cherian Thomas, Unni Krishnan and Sophie Leung

May 26 (Bloomberg) — A fight breaks out as student Vikas Dagar jostles with dozens of men, women and children to fill buckets from a truck that brings water twice a week to the village of Jharoda Kalan on the outskirts of New Delhi.

Three thousand kilometers (1,900 miles) away, near Xi an in central China, power-plant worker Zhou Jie stands on the mostly dry bed of the Wei River, remembering when he used to fish there before pollution made the catch inedible.

Dagar and Zhou show the daily struggle with tainted or inadequate water in India and China, a growing shortage that the World Bank says will hamper growth in the world's fastest-growing major economies. It also is pitting water-intensive businesses such as Intel Corp.'s China unit and bottling plants of Coca-Cola Co. against growing urban use and the 1.6 billion people in China and India who rely on farming for a living.

Water will become the next big power, not only in China but the whole world, Li Haifeng, vice president at sewage-treatment company Beijing Enterprises Water Group Ltd., said in a telephone interview. Wars may start over the scarcity of water.

About 2.4 billion people live in water-stressed countries such as China, according to a 2009 report by the Pacific Institute, an Oakland, California-based nonprofit scientific research group. Water scarcity and pollution reduce China's gross domestic product by about 2.3 percent, the World Bank said in a 2007 report.

## **Doubling Demand**

Water demand in the next two decades will double in India to 1.5 trillion cubic meters and rise 32 percent in China to 818 billion cubic meters, according to the 2030 Water Resources Group, a research collaboration between the World Bank, management consulting firm McKinsey & Co. and industrial water users such as Coca-Cola.

That will produce returns of 12 percent or more from investments in companies that treat or process water, said Arnaud Bisschop, who oversees \$3.27 billion investments in the Water Fund run by a unit of Pictet & Cie in Geneva. The fund included stocks such as

Beijing Enterprises Water and Hong Kong-based environmental protection company China Everbright International Ltd., according to data compiled by Bloomberg.

China's 1.33 billion people each have 2,117 cubic meters of water available per year, compared with 1,614 cubic meters in India and as much as 9,943 cubic meters in the U.S., according to the Food and Agriculture Organization of the United Nations.

The 1.2 billion people in India, where farmers use 80 percent of available water, will exhaust their fresh-water supplies by 2050 at the current rate, the World Bank estimates.

### **Four Buckets**

For Dagar, 21, and the 200 other villagers in Jharoda Kalan, that dearth is already a daily fact of life.

This is for our drinking and cooking, he said, pointing to four bucketfuls he won from the fight. I've been waiting for the past hour.

Southwest China had its worst drought in a century this year, prompting Premier Wen Jiabao to say that the country would face a test to meet its grain output target. The drought affected 24 million people and 16 million acres of arable land, Liu Ning, vice-minister of water resources, said on March 31.

India's farmers are awaiting the start of the rainy season this month after the weakest monsoon in more than three decades last year cut rice output by as much as 10 percent, according to the agriculture ministry.

### **Rivers and Lakes**

China, with 20 percent of the world's population and 7 percent of its fresh water, has contaminated 70 percent of its rivers and lakes, while half the cities have polluted groundwater, according to the World Bank. By 2030 China will have a supply shortfall of 201 billion cubic meters unless the government takes steps to control demand, McKinsey partner Martin Joerss in Beijing wrote in an April report.

The Wei river was rated severely polluted by the government in 2009, according to a March 2 report in state-run China Daily. That's forced Zhou to fish instead in pools near the river. The river level has dropped by about three-quarters in some places in the past decade, he said.

The pollution and shrinking rivers are partly a result of China's rapid industrialization. Economic growth accelerated to 11.9 percent in the first quarter, the fastest pace in almost three years. It is set to reach 10.5 percent this year, according to Citigroup Inc.

### **Value, Cost**

China can solve this problem in a way that creates economic value as opposed to economic cost, said Joerss in an interview. There is tremendous, though largely untapped, opportunity to meet China's enormous need for water resources by focusing on better managing demand.

Investments in technologies to ease China's water deficit are expected to reap 131 billion yuan (\$19 billion) in profit a year, according to the McKinsey report. (*Investments in bulk transport technologies, for example, the Medusa bag, would also allow large volumes of water to be transported to where it would have the greatest economic, social and humanitarian need: Paterson*)

Asian water-related companies have benefitted from the demand for treatment and supply and have potential for further gains, said Pictet's Bisschop. He said profit on water investments in China may be about 8 percent to 12 percent a year, with even higher returns in some cities.

We are looking for companies, for example, which provide beverage companies water-efficient technology in cleaning the bottles, Bisschop said in a phone interview.

Water is a resource under great pressure in China and globally, said Kent Kaerhoeg, a spokesman in Hong Kong for Coca-Cola Pacific, which has water recovery systems at its 39 plants in China to reduce consumption. Economic development, climate change and population growth will increase pressure on freshwater resources in China.

### **Serious Depletion**

In March, a panel from the southern Indian state of Kerala recommended suing Coca-Cola bottler Hindustan Coca-Cola Beverages Pvt. for 2.16 billion rupees (\$48 million) damages for contamination and serious depletion of water in the town of Palakkad. In an April 26 e-mail, the company denied that its plant, shut since March 2004, depleted or tainted the town's water. (*If they so chose, companies like Coca-Cola could be part of the solution rather than part of the problem by leading the way in bulk water importation into areas where their activities over the past decade have supposedly depleted local supplies. Depending on where their bottling plants are located and the method of transport, the cost of importation is likely to be little more than the cost of purification therefore they get the opportunity to build their businesses at the same time as helping to solve local water issues. Seems like a win:win situation: Paterson*)

Water and water treatment is going to be the next growth story after power, said M. S. Unnikrishnan, managing director at Pune, India-based Thermax, which makes water-recycling equipment. Thermax shares have almost doubled to 670 rupees on the Bombay Stock Exchange in the past year, compared with a 16 percent gain in the benchmark Sensex.

C. K. Sandeep, vice president, corporate marketing at Mumbai-based Ion Exchange (India) Ltd., which set up India's largest desalination plant in the southern city of

Chennai, said he expects rising demand for the technology. Ion had sales of about 5 billion rupees in the year ended March, 2009. Its shares have risen 32 percent in the past 12 months.

### **Critical Need**

Industrial water treatment and, equally important, waste water treatment is a critical need, Sandeep said. Water is a crucial raw material for most industries.

Intel said in an e-mail it has expanded its transparency and disclosure on water use and adopted a new water policy as part of the Santa Clara, California-based company's commitment to responsible water management. Intel spokeswoman Susan Qian declined to comment on the company's water use in China.

Net income for Beijing Enterprises Water rose more than sixfold in 2009 from the previous 18 months after it bought a sewage purification and treatment company in August 2008. More than half the profit came from sewage treatment.

The company, a unit of city government-controlled Beijing Enterprises Holdings Ltd., had 47 sewage treatment plants and four water supply factories across 13 Chinese provinces at the end of 2009, and is building 20 more. The stock has doubled in a year in Hong Kong, compared with an 11 percent rise in the Hang Seng index.

### **Food and Water**

This decade belongs to food and water, said Vijay Bhambhani, CEO of online stock researcher Bsplindia.com. He holds shares in Ion Exchange. I am quite bullish on water stocks. Next year onwards they will start outperforming the market by a factor of two.

In both China and India, fresh water reserves are unevenly distributed.

Northern China, with cities including Beijing, the capital, has less than a fifth of the country's fresh water and almost half the population, the World Bank said.

Former Chinese leader Mao Zedong, who began trying to address the water issue as early as the 1950s, conceived the South-North Water Diversion Project to carry water along three routes from the Yangtze River to the Yellow River. Construction began in 2003 and has cost more than \$5.8 billion so far. The completion date has been pushed back four years to 2014 as costs and environmental concerns mount.

Government proposals in India were no less ambitious.

Former Prime Minister Atal Bihari Vajpayee in 2003 appointed a panel to assess building a series of dams and canals that would link rivers to control floods and curtail shortages. The 5-trillion-rupee plan was shelved after protests from environmentalists.

## **Indian Conservation**

Instead, India has concentrated on conservation. The government has made it mandatory for new houses and condominiums in cities to collect rainwater in an effort to curb a decline in groundwater levels.

The Congress-led coalition is also implementing a six-year-old plan to replenish about a million lakes, ponds and water tanks. About 60 percent of India's arable land still depends on the annual monsoon.

Water availability has declined to such an extent that many parts of India today face a drought-like situation, said Sushmita Sengupta, research associate at the Centre for Science and Environment in New Delhi.

The two countries' plans don't always mesh.

## **Tibet Dam**

When China dammed the Mekong, the largest river flowing into Southeast Asia, Thailand, Vietnam, Cambodia and Laos all called for greater cooperation to prevent droughts and floods.

China also plans a dam in Tibet on the Yarlung Zangbo, the highest major river in the world, which flows into India as the Brahmaputra.

The project would give Beijing control of the water supply to more than 90,000 square kilometers of land controlled by India while China claims sovereignty.

Water scarcity is probably one of the biggest risks for investors in China and India, said Lucy Carmody, executive director of Singapore-based investor advisory firm Responsible Research. There is a lot of potential for border conflicts.

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