

# LION BREWERY ECO<sub>2</sub>BREW

## FIRST ECO<sub>2</sub>BREW PLANT IN SOUTHERN ASIA

In the southern part of Asia you find Sri Lanka: an island with incredible landscapes, architecture, history and wildlife. Here you can experience a 3,000-year history, picturesque sceneries and once glorious townships - while enjoying a beer from the 155-year-old Lion Brewery.

Lion Brewery (Ceylon) PLC is home to the legendary Lion Beer. Established and conceptualized on traditional brewing recipes and techniques since 1860. Today the brewery is 25 % owned by Carlsberg, 75 % by local investor groups.

**“ECO<sub>2</sub>Brew will give us huge savings on drinking water, which is a scarce resource.**

*Hiran Edirisinghe, Chief Engineer*

The brewery is considered industry leader in Sri Lanka. Being a modern and advancing company, Lion Brewery have recently doubled their production from 1 million hl/year to 2 million hl and now they have chosen to install a new CO<sub>2</sub> plant on the site: an ECO<sub>2</sub>Brew plant, which will be the first in southern Asia.

Mr. Hiran Edirisinghe, Chief Engineer of Lion Brewery explains; “In Sri Lanka, CO<sub>2</sub> is in short supply, which the price reflects. We have chosen an ECO<sub>2</sub>Brew plant due to several reasons. First it will provide us with an increased amount of CO<sub>2</sub>, which we can sell to a third party. Second, it

will give us huge savings on drinking water, which is a scarce resource. Third, we expect to save over 20 % on energy consumption. We are looking forward to the cooperation with Union Engineering and are excited about the new technology we are bringing to southern Asia.”

### ECO<sub>2</sub>Brew gives a good production optimisation

The first ECO<sub>2</sub>Brew plant came in production at Carlsberg in Denmark in 2011. The technology is ground-breaking as this is the first CO<sub>2</sub> recovery plant to purify CO<sub>2</sub> 100 % water free, this thanks to the heart of the plant: which is a Union patent; the CO<sub>2</sub>-Scrub.

The technology for reusing CO<sub>2</sub> in breweries worldwide has changed little in the past 50 years. Increased focus on Corporate Social Responsibility and water and energy savings led Union Engineering to investigate the opportunities for using the CO<sub>2</sub>-Scrub technology in a new type of plant. Today the technology has been installed in several breweries and has proven its profit value.



## KEY FACTS

**Location**  
Sri Lanka

**Application**  
Brewery

**Capacity**  
2 million hl/yr

**Start-Up**  
2015

### Expected savings

Lion Brewery look forward to benefit from their investment. On average 4,300 m<sup>3</sup> drinking water a year is used in a conventional CO<sub>2</sub> plant with a capacity of 1,000 kg - the exact size of the plant in Sri Lanka.

In addition to the expected 20 % savings on power consumption, the Lion Brewery have also chosen to further install a ReVap on the CO<sub>2</sub> plant, which will give further significant power savings.

Depending on the amount of beer produced in a given period, there will also be an increased amount of food grade CO<sub>2</sub>, which can be sold to a third party for different applications - for example soft drink bottlers, as is the case with Carlsberg in Denmark.

## LEARN MORE

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