

Union has been awarded first ECO₂Brew plant in southern Asia



Reliable solutions by dedicated people

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In the southern part of Asia you find Sri Lanka; an island with an incredible nature, architecture, history and wildlife. Here you can experience a 3000 year long history, picturesque sceneries and once glorious townships - while enjoying a beer from the 155 year old brewery; Lion Brewery

Lion Brewery

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

The brewery is the considered industry leader on Sri Lanka. Being a modern and forth going company, Lion Brewery have recently doubled their beer production from 1 mill. hl/year to 2 mill. hl and now they have chosen to install a new CO₂ plant on the site; an ECO₂Brew plant - which will be the first in southern Asia.

"ECO₂Brew will give us huge savings on drinking water, which is a scarce resource"

Mr. Hiran Edirisinghe, Chief Engineer for Lion Brewery explains; "CO₂ on Sri Lanka is a short-supply good which the price reflects. We have chosen an ECO₂Brew plant due to several reasons; first it will provide us an increased amount of CO₂, which we can sell to a third-party. Secondly it will give us huge savings on drinking water, which is a scarce resource. Thirdly 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."

ECO₂Brew gives a good production optimization

The first ECO₂Brew plant came in production at Carlsberg in Denmark in 2011. The

technology is ground-breaking as this is the first CO₂ recovery plant to purify CO₂ 100% water free. This thanks to the heart of the plant, which is a Union patent; the CO₂-Scrub.



The technology for reusing CO₂ in breweries worldwide has changed little in the last 50 years. The sharpened focus on CSR and water and energy savings led Union Engineering to investigate the opportunities for using the CO₂-Scrub technology in a new type of plant. Today the technology has been installed at several breweries and has proven its profit value.

Expected savings

Lion Brewery look forward to benefit from their investment; in average 4,300 m³ drinking water a year is used in a conventional CO₂ plant with a capacity of 1,000 kg - which is the the size of the plant at Sri Lanka.

Besides the expected 20% saving on power consumption the Lion Brewery have also chosen to further install a ReVap on the CO₂ plant, which will give further significant power savings.

duced in a given period, there will also be an increased amount of food grade CO₂, which can be sold for a third party for different applications. This could be for soft drink bottlers, which is the case for Carlsberg in Denmark.

The project is expected to be in operation by Q3 2015.

-/BBA