



EcoSmartTM Technology

Are you looking for a solution
that delivers high quality beverage alcohol
with the best in energy efficiency and
multiple product options ?
EcoSmart Distillation Technology
offers you the perfect solution.



The EcoSmart Technology



Feedstock, Energy, Water and Environment are considered as Sustainability Pillars for the alcohol industry.

Worldwide, the cost of Feedstock, Energy and Water has been escalating. With the focus on Greenhouse Gas Emission reduction and Sustainability required in the alcohol industry, there is a keen interest in environment friendly processes.

To cater to a highly volatile and competitive environment, industry requires to be focused on producing multiple products from same facility with minimal energy and water cost with highest product recovery.

Praj's patent pending EcoSmart technology is a novel solution for reduction of water and energy by process integration of specially designed dehydration system (using food grade molecular sieves) with distillation system for producing variety of products from same facility.

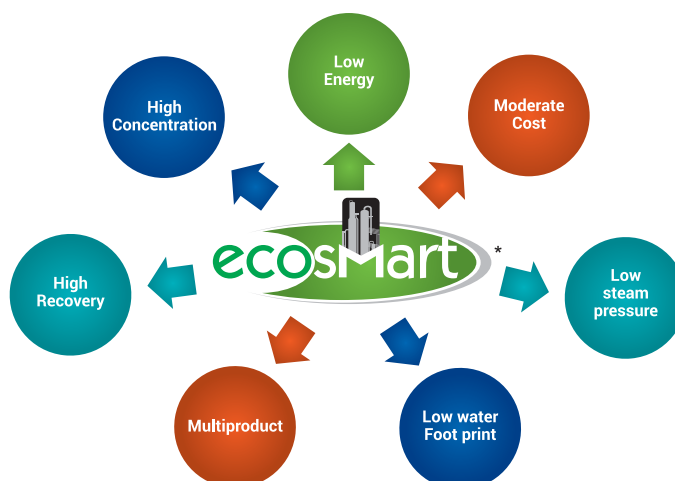
EcoSmart technology helps in reduction upto 40% of water and energy from current benchmark. This technology also helps in producing various grades of ethanol either simultaneously or one product at a time :

- Beverage grade alcohol
- Export quality rectified spirit
- Fuel grade alcohol
- High quality neutral spirit
- Pharma grade alcohol
- Perfumery grade alcohol

Brief Process Description

In the first step fermented wash is subjected to stripping followed by rectification to produce hydrous alcohol. The hydrous alcohol is then subjected to special treatment system for producing high alcohol concentration product which is then further refined in series of distillation columns to remove heads and feints to obtain final product.

The beverage alcohol produced from EcoSmart technology will create new benchmarks for beverage grade spirit production industry across the globe in terms of norms for energy, water footprint and most importantly the quality of alcohol.



Praj Worldwide

India | South Africa
Thailand | UAE | USA



Praj Industries Limited,
Praj Tower, 274 & 275,
Bhumkar Chowk-Hinjewadi Road,
Hinjewadi, Pune-411057. INDIA
E : info@praj.net | Website : www.praj.net