

Sustainability Day Presentation:

ENERGY RECOVERY AND CLIMATE CHANGE MITIGATION FROM DISTILLERY WASTEWATER TREATMENT PROJECTS

by **Milind Kulkarni**

Thursday, October 25th, 2012

11:00 a.m. - 12:15 p.m.

University Student Union, Theatre

Abstract

Distilleries manufacture alcohol from molasses which is wastewater generated in cane sugar industry. The wastewater generated in the distillation process is called spent wash which is highly organic and polluting in nature. As per the norms of Pollution Control Board, distilleries have to follow "Zero discharge policy". Traditionally, anaerobic lagoons followed by composting treatment is used. Though this method conforms the norms of Pollution Control Boards, it emits methane a Green House Gas responsible for global warming and climate change. The presentation discusses a case study of a distillery in Maharashtra State which is implementing a project in which instead of anaerobic lagoons, bio-digester is used for the treatment of spent wash. The biogas generated in the treatment is captured and burnt to generate electrical energy. Attempts are being made to get financial assistance to this project in the form of Carbon Credits under Clean Development Mechanism (CDM). The paper also discusses the project cycle of CDM.

About the Speaker



Milind Kulkarni, PhD
Director, Engineering Institutes
ITM Group, Mumbai, India
Email: drmkulkarni@itm.edu

Dr. Milind Kulkarni obtained his B.E. (Civil) from Walchand College of Engineering, Sangli (1985), M.E. (Civil) – Env. Engg. from VJTI Mumbai (1987) and PhD from IIT Bombay (1998). He has received various scholarships such as Middle School, High School, National Merit, GATE and QIP throughout his academic career. He has more than 23 years of rich academic experience as Lecturer, Asst. Professor, Professor and Director in Engineering Institutes. He served as expert for the National Board for Accreditation of All India Council for Technical Education (AICTE), and has undertaken consultancy and research assignments for prestigious national and international organizations. He has published more than 30 papers in international and national journals and conferences. His research interests are water and wastewater treatment, carbon finance and personal exposure to air pollution. At present, he is working as Director – Engineering Institutes, ITM Group of Institutions, Mumbai, India.

Additional Presentations held at the USU Theater on Sustainability Day, October 25, 2012:

12:30 - 1:45 p.m. Film: ***There once was an Island*** (documentary about a tiny atoll in Papua New Guinea)

2:00 - 3:15 p.m. Speaker: Dr. Naomi Oreskes on her book ***Merchants of Doubt***