



United Nations Environment Programme
World Environment Day
Every Year. Everywhere. Everyone.

Seven Billion Dreams. One Planet. Consume with Care.



Dear Readers,

"Seven Billion Dreams. One Planet. Consume with Care"

This was the theme of World Environment Day 2015 - a day established by the United Nations General Assembly in 1972, and celebrated on 5th June every year.

This year's theme focuses on the fact that people are consuming far more natural resources than what the planet can sustainably provide. Many of the Earth's ecosystems are nearing critical tipping points of depletion or irreversible change, pushed by high population growth and economic development.

It is predicted that if current consumption and production patterns remain the same and with a rising population expected to reach 9.6 billion, by 2050 we will need three planets to sustain our ways of living and consumption.

Governments, international organizations, companies such as ours, the scientific community, and many more concerned organizations/individuals continue to do their best in terms of initiatives and solutions that can help us combat the looming threats of global warming and climate change. However the verdict is clear...living within planetary boundaries is the most promising strategy for ensuring a healthy future. And the onus of changing our lifestyle lies with each one of us who call this planet our home.

Let's pledge to make "conscious consumption" our way of life. It is good for our planet, and good for us.

HIGHLIGHTS



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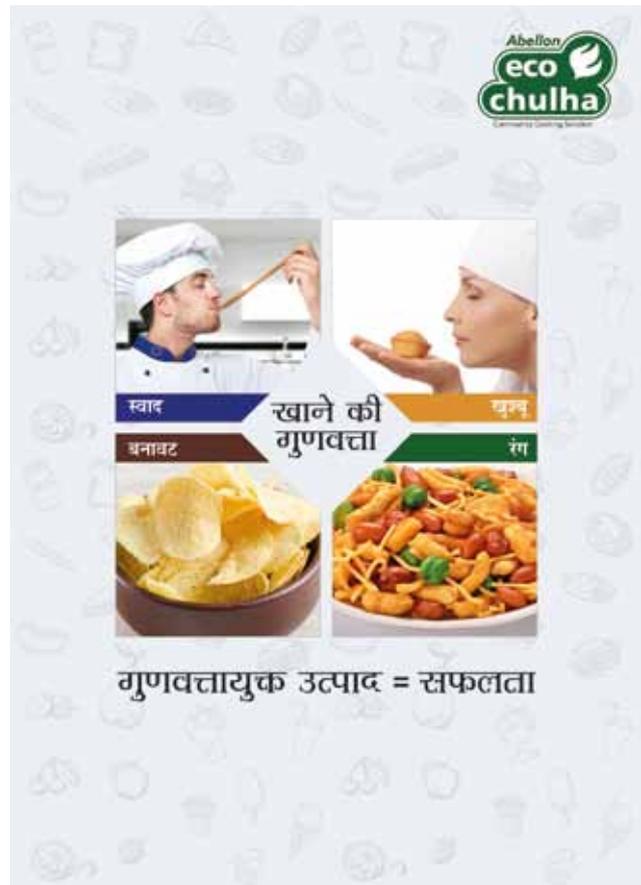
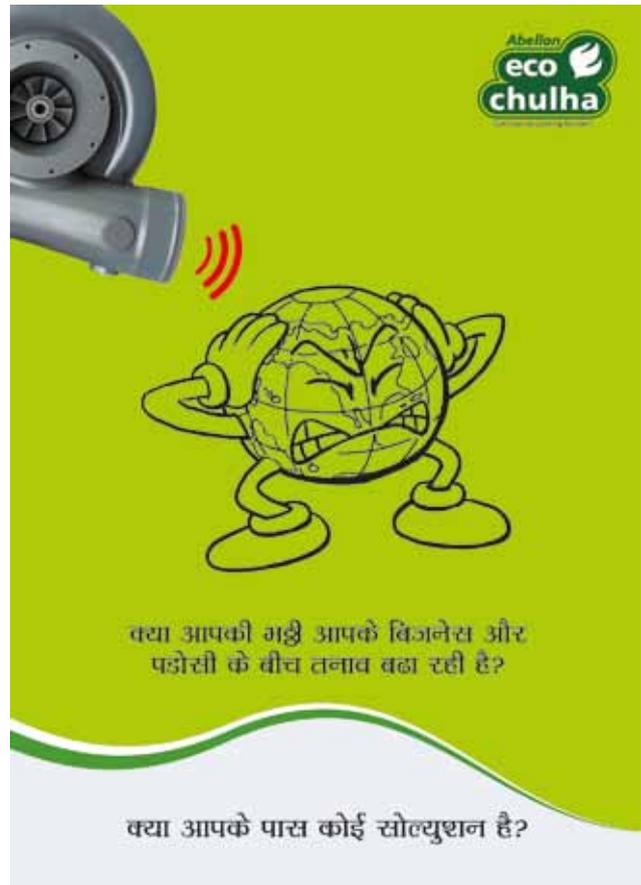
Cookstove Campaigns in India

During this quarter, we successfully launched two cook-stove campaigns in India...

Kitchen Ka Sardar was a campaign celebrating the true but unsung hero of the kitchen – the Cook. He works behind the scenes, and is seldom seen or heard by patrons who flock to eat the delicacies he serves up. Yet, it is his skill and expertise that draws customers to a place repeatedly. The campaign was our tribute to this unsung hero of the kitchen, and a small attempt to thank him for his tireless efforts.

The Safety-Quality-Noiseless Performance (SQN) Campaign is designed to create awareness among our users on the key health and well being related benefits of using our pellets and pellet based equipment, which include...

- Higher safety in terms of fuel storage as biomass pellets are non-inflammable in nature.
- Better respiratory health due to no GHG emissions
- Not damaging to the ears/affecting hearing, unlike diesel based systems



Pellets and pellet based cookstove trials in Ghana



Having successfully commissioned our state of the art pellet manufacturing facility in Kumasi, Ghana in early 2015, we have now entered the phase of extensive trials for our cook-stoves and pellets in commercial and residential cooking applications.

We are happy to share that both products are being very well received across segments including school canteens, restaurants, chop-bars, and others, where they can successfully replace fuels currently in use, primarily charcoal and LPG, in the process offering some key benefits such as

- Cost effectiveness: savings of between 15 to 20% vis-à-vis current fuels
- Potential for reducing environmental damage: replacing 1 tonne of charcoal with pellets...
- Better health and well-being: pellets are a clean fuel and do not emit...

The model addresses multiple community, business and nation level challenges including...

- Lack of a clean, uninterrupted, affordable source of energy/heat generation
- Increasing level of GHG emissions due to burning of saw dust and wood waste
- Increasing deforestation – High dependence on wood/charcoal as the primary source for cooking and heating requirements
- Daily exposure to toxic smoke from traditional cooking practices such as use of charcoal cookstoves or loose biomass
- Local air pollution and associated effects of pneumonia, chronic respiratory disease, and lung cancer
- Low energy security: Dependence on other nations for meeting energy/heat requirements, shortages, subsidy burden, forex outflow, etc.

Abellon at Gujarat Environment Festival 2015 (GEF 2015)

The Gujarat Environment Festival was organized to celebrate World Environment Day, and Abellon actively participated in the same.

This year's festival was celebrated from 1st to 7th June, aiming to touch more than 20000 people from different sections of the society including students, corporate employees, government departments, local conservation organizations, etc. in major cities of Gujarat.

The theme for 2015 was **"Co-Existence,"** aiming to engage multiple stakeholders towards meaningful conservation of urban natural resources.



A **"Free Our Trees Campaign"** was conducted across the state, with the aim to free 1Lakh existing, full-grown trees from all possible threats, and increase their health & lifespan.

Activities included un-nailing the trees and removing the boards, removing of tree guards from grown trees, tagging the freed trees and more. A team of 50+ volunteers from the Abellon Group joined in this effort, helping to free up trees in Ahmedabad.



The festival also included a photography exhibition on the Echoes of the Himalayas, which was held at the Amdavad ni Gufa Art Gallery on 17th June. Our President, Mr. Pankaj Patel, was invited as a Guest of Honour to inaugurate the exhibition, which was very well attended by the leading lights of the city.



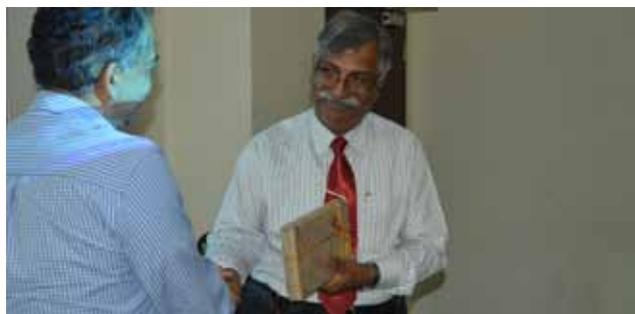
Visitor at Abellon R&D

Dr. R K Pandey, Professor at Department of Electrical Engineering Institute of Technology, Banaras Hindu University, visited Abellon's R & D center and delivered a talk on 'Integrated grid control and system design planning for solar energy transmission technology' on April 18, 2015.

Dr Pandey is an expert on EHV AC & DC Transmission, FACTS Controllers Design & Analysis, Integrated Large Power System Operation & Control, Intelligent Grid Control, High Voltage DC Transmission Technology, Electricity Policy and Planning, Distribution System Planning & Automation, Distributed Energy Resources & Management.

Dr Pandey talked about power transmission connectivity & distribution issues with reference to available resources and technology in India and future demand of new technology along with steadiness of power policy.

Abellon team members from Solar, bio-power, co-generation and waste to energy departments had an extensive interaction with Dr. Pandey on subjects such as critical load, non-critical load, importance of micro grid management, energy storage, and cloud technologies.



Abellon R&D @ Synergy with Energy conference

The 10th National Conference of the Indian Energy Sector – "Synergy with Energy" focusing on the theme – 'Conventional & Non-conventional Energy: Challenges & Opportunities' was held on May 5-6, 2015 at AMA, Ahmedabad. The conference is recognized as one of the major platforms offering a national debate on subjects of contemporary interest concerning energy management.

Our R&D Head was invited as an expert speaker at the conference, as part of a session on "Realizing India's True Renewable Energy Potential." She delivered a talk on "Biomass- A sustainable renewable heat source", with key focus on biomass based renewable heat source utilization for industrial and commercial applications to reduce fossil fuel import and GHG from retail and commercial markets.



Abellon as a member of Advisory Board in National Conference on Biofuels and Biotechnology

The "National Conference on Biofuels and Bioenergy" was jointly organized by Department of Chemistry, University of Petroleum & Energy Studies (UPES) and Uttarakhand Renewable Energy Development Agency (UREDA) on June 12-13, 2015 at Dehradun.

UPES is the first energy and allied sector University in the Pan Asian region offering career opportunities in the fast growing sectors of Oil & Gas, Power, Aviation, Port & Shipping, Automotive & Infrastructure, Supply Chain management and other allied areas. UREDA is the nodal agency of Govt. of Uttarakhand that plays a leading role in the development of

the renewable energy sector in line with the guidance of Ministry of New and Renewable Energy (MNRE).

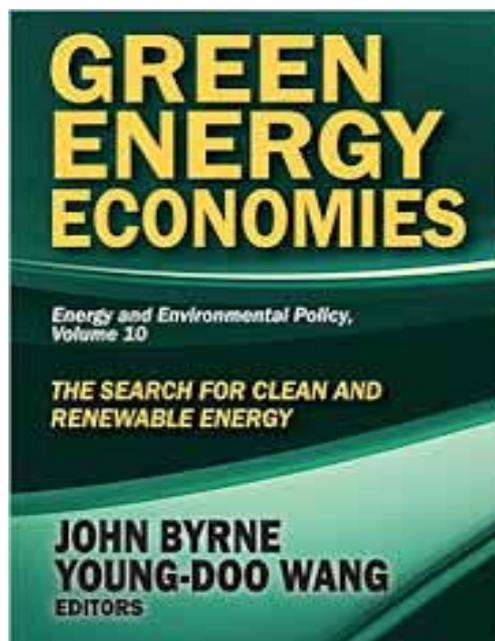
Our R&D Head was invited to be a part of the advisory board of the conference and delivered a talk on "Sustainable development of biofuel and bioenergy in competitive edge." She focused her talk on innovations and findings towards the advancement of biofuels, and interacted with young scientists, engineers, research scholars and students to capture their ideas for further development of the existing knowledge on energy harvesting.

Green Energy Economies: The Search for Clean and Renewable Energy (Energy and Environmental Policy)

Green Energy Economies is a book that offers insights into the major drivers that are shaping a new future powered by clean energy sources. Assembling cutting-edge researchers as contributors, the book provides a comprehensive account of the shift underway, examining in detail the complexities and intricacies involved with such a transition.

The book first details the promises and problems of a green energy transition. Next, it explores the economic benefits that a comprehensive strategy toward a green energy economy might create. Then it investigates how communities will be affected and explores the social, cultural, and other changes that are likely to result. Finally, it explores the shift toward new technologies in-depth. Green Energy Economies concludes with policy options that support a transition to a better energy, environmental, and economic future.

The contributors argue that a green energy economy offers great promise, but its realization will require making hard choices, and soon. They argue for investments in renewable energy and economic systems that can deliver a sustainable and equitable future. This book makes a forceful case for a green future.



Go Further

Go Further (2003) is a documentary film by Ron Mann starring Woody Harrelson and a group of other environmental activists riding around in a large, bio-fueled bus.

The tour was called the Simple Organic Living Tour and it was produced by cause-related marketers The Spitfire Agency. The film debuted at the South by Southwest Film Festival in March 2003, and at the Toronto International Film Festival in September 2003, where it was first runner-up for the People's Choice Award. It was also nominated for a Genie Award for Best Documentary.

Ron Mann's Go Further is a documentary observing the escapades of Woody Harrelson and his comrades as they travel from Seattle, WA, to Los Angeles, CA. In an attempt to spread a message of change in order to better the planet, Woody and his companions—"a yoga-teacher, a raw food chef, a hemp-activist, a junk-food addict, and a college student who suspends her life to impulsively hop aboard"—speak at numerous universities and visit various environmentally important sites. These sites include a tree-friendly paper producer, an eco-friendly farmer, and an activist training camp where people are trained various techniques to resist authorities attempting to break up protests.

