



**INDIAN INSTITUTE OF CHEMICAL ENGINEERS**  
**Dr. H. L. Roy Building, Jadavpur University Campus, Raja Subodh Mullick Road,**  
**Post Box 17001, KOLKATA – 700 032**

**PRESIDENT's MESSAGE**



The New Year has begun in right earnest with lot of enthusiasm and number of challenges. The new council recognizes that we are in the midst of a global economic crisis and as Chemical Engineers, we have to find solutions to these issues. We, the people from industry and academia have to work with rigour and vigour to sustain the growth. In this global scenario "Survival" has become the biggest mantra. To remain competitive and to ensure business continuity, the major factor which needs to be addressed is cost of manufacturing or in other words one has to find ways to reduce conversion cost. This brings us back to my last message about the importance of Energy, Environment and Water.

Energy conservation has been recognized as a national priority for a long time, but concrete steps have not been taken seriously and the few that have been taken lack in perspective and determination. The most important parameter for any industry is continuous availability of energy resource. When we look around us at all the machines that are running, the lights, fans, cars, etc., we simply cannot imagine life without all these. But can we imagine the amount of energy that is being used to operate all this? Fortunately, people all over the world are becoming aware of the problem of consuming too much energy and are making a conscious effort to conserve it and thereby put less pressure on the universe. By conserving energy we also lower the amount of pollutants we release into the air and thereby helping to keep the air clean. Energy is essential to life and its conservation has become an absolute necessity. India's overall



## **INDIAN INSTITUTE OF CHEMICAL ENGINEERS**

**Dr. H. L. Roy Building, Jadavpur University Campus, Raja Subodh Mullick Road,  
Post Box 17001, KOLKATA – 700 032**

consumption of energy is very low, but compared to its Gross Domestic Product its relative consumption is very high. We as chemical engineers need to look from both perspective one to conserve the energy and other to evolve the technology which itself has lower energy specific consumption.

Friends, when we talk of Energy, we talk of environment and that brings us to current topic of climate change. Climate change is a real threat to a healthy planet Earth - the only home we have. But because the worst effects are in the future, we have more immediate concerns. In a warming world with huge population growth, clean power systems are going to be in huge demand. The scientific research and innovation needed for India to dominate Energy Technology, the way we did IT. We have to move the whole planet onto a greener path. When the entire world is gripped by recession, India could well dominate and takeover China to bag the title of "World's fastest-growing economy" by taking right step at right time. There is a vast scope available for saving energy in boilers, steam systems, furnaces, electrical utilities, Motors , Drives, Pumps, Compressors, Lighting Systems, Air Conditioning systems, Home Appliances, computers and you name anything you will find some scope for improvement. To transform ourselves from developing country to Developed country there has to be major emphasis on Energy conservation.

Another major area which is close to my heart is Environment. The increase in sewage and solid waste in urban areas. There is a need to take solid steps to overcome this to survive and to keep the environment in best of its shape. Some fact and data reveals that India is dumping waste and dumping it big. A study by research and consulting firms Frost and Sullivan reveals by 2009 end the sewage generation from urban areas will go up to 35000 million liters per day, while municipal solid generation could be 45 Million tonnes. Presently there is facility for treating only 25 % of the total waste being generated. India needs to sustain the massive growth that it is achieving and without damaging the



## INDIAN INSTITUTE OF CHEMICAL ENGINEERS

Dr. H. L. Roy Building, Jadavpur University Campus, Raja Subodh Mullick Road,  
Post Box 17001, KOLKATA – 700 032

environment in the form of Global Warming. There is a need to bring awareness, Strong Regulation, Better Protection system and facility for treatment to ensure there is no damage to the climate. So Indian economic renewal is the goal, but mitigating climate change would be the great by product. The country with the most powerful clean-technology industry in the 21st century will have the most energy security, economic security, healthy environment, innovative companies and global respect.

I am very happy that Calcutta Regional Centre is organizing a 2-DAY WORKSHOP on “Hazardous Waste Management” similarly Cochin Regional Centre is celebrating “World Environment Day by organizing 2 day workshop on 5<sup>th</sup> / 6<sup>th</sup> June. This initiative is in perfect alignment to the vision and mission of IIChE to bring awareness and conserve the environment. This shows IIChE is giving right focus in all its earnest on the most important and vital subject. I would be extremely happy if other IIChE regional centres also organize similar lectures/Evening talks / Seminars/Workshops on topics like environment, energy conservation, Clean Technology, Green Technology etc. We from IIChE head office will provide all the support for taking this initiative to newer heights.

“Our faith, our spiritual journeys, our fellowship, and our commitment is to lift and transform our lives. Together, we are working for a better world”. With these words I urge you to become a good citizen, a good chemical engineer. I again invite you, my dear colleagues, to write to us at [iichehq@vsnl.com](mailto:iichehq@vsnl.com) or [sushil.kumar@ril.com](mailto:sushil.kumar@ril.com) with your ideas and concerns to take this institute to even greater horizon.

Regards,

**Sushil Kumar**