

# HEMP News

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*A monthly newsletter on "Home Energy Management Programme" of IAEMP*

## Editorial

### Lighten the burden



K. Jayalakshmi

*Would you be happy earning Rs 25 lakh a year, own a big house and two cars? Chances are that after the initial euphoria, most likely spurred by status considerations, things will get too hectic for you to enjoy the fruits of your labor. More and more people in the west are opting out of lavish opulent lifestyles for simple living that gives them more experiences than things to buy.*

*The realization has dawned that we tend to accumulate so many things that we do not need. NYT carried a news item about an investment firm manager who decided to cast away things and pare them down to 100 essentials. Debts plummeted and time available went up. She chucked her job and started to freelance. Happiness stepped in.*

*Calculated consumption is a trend in the west. Sadly, here in India we are going through a frenzied accumulation drive. From one television to two, from a small fridge to big one, from cookers to microwave ovens, the list of household 'necessities' keeps growing. From a pair of sandals and a shoe to three and four pairs for each member, from five or six sets of clothes to overflowing wardrobes, personal accessories spill out of every corner of our homes.*

*In the process, we have doubled and trebled our impact on the planet. The rising consumption has aggravated many environmental crises including food availability, climate change, water scarcity, materials and energy resource depletion.*

*So can we become sustainable at this point? Will it mean all of us have to off the grid or grow our own food? Yes, all that is necessary but before taking big leaps, there are some simple things we can observe at home.*

*To begin with, like the investment firm manager did, make a stock of all that you can live without. Chuck them or give them to those in need. Start with 100 things you need and bring them down bit by bit. Are you wasting too much? Keep a note of what is being wasted most, and make less of the same.*

*Look out for ways in which to use water and energy efficiently. These have been covered elaborately in earlier newsletters. Without repeating the same ideas, let us look at some very simple changes we can incorporate that can reduce our carbon footprint.*

*For instance, simply switching off lights and fans for an hour daily could reduce carbon emissions by 28 kgs annually. (It is a different matter that the local discom is doing it for us these days!) In place of room lighting, opting for a table lamp to study could mean reducing emissions by 57 kgs annually. So also, eating together, and hence heating food at one go could save up to 30 kgs of carbon dioxide emissions while inflating car tyres properly can reduce 150 kgs of carbon emissions through saved fuel. Simply switching off your TV, set top box and DVD at plug point reduces 106 kgs of emissions annually and saves Rs 518. Or by students handing down 1000 textbooks to juniors, about 870 kgs of emissions are avoided.*

*As is evident, it does not call for tough decisions, but rather some common sense choices which we have forgotten in a season of plenty. Learning to live with less not only reduces the burden on the planet, but releases miraculously extra hours to the day. Better health will follow. More important, happiness will come knocking.*

## Smarter way to clean your vehicle with just a liter of water!

Sunil Sood

All of us might have seen many people cleaning their vehicles using a running hose wasting a huge quantity of potable water. Some smart and conscious souls use a bucket of water to accomplish the task.

The HEMP team has demonstrated how a vehicle can be cleaned using just a liter of water with the help of a spray bottle. The team tried a bottle of 400 milliliter capacity fitted with a spray. The dust was first blown away with the help of a cloth. Then the first round of water spraying was done to soften the dust/stains sticking to the vehicle body. The wet parts then were wiped with the help of a cloth. In the second round the same



thing was repeated, like a finishing touch. The wheels were first cleaned with a waste paper and then given final cleaning with the sprayer. The total quantity of water used was actually less than one liter!

## Recycling - the Buddha way

Buddha, one day, was in deep thought about worldly activities and the ways of instilling goodness in human beings.

One of his disciples approached him and said humbly "Oh my teacher ! While you are so much concerned about the world and others, why don't you look in to the welfare and needs of your own disciples also."

Buddha: "OK.. Tell me how I can help you"

Disciple: "Master! My attire is worn out and is beyond the decency to wear the same. Can I get a new one, please?"

Buddha found the robe indeed was in a bad condition and needed replacement. He asked the store keeper to give the disciple a new robe to wear on. The disciple thanked Buddha and retired to his room.

A while later, Buddha went to his disciple's place and asked him "Is your new attire comfortable? Do you need anything more?"

Disciple: "Thank you my Master. The attire is indeed very comfortable. I need nothing more"

Buddha: "Having got the new one, what did you do with your old attire?"

Disciple: "I am using it as my bed spread"

Buddha: "Then.. hope you have disposed off your old bed spread"

Disciple: " No.. no.. master. I am using my old bedspread as my window curtain"

Buddha: " What about your old Curtain?"

Disciple: "Being used to handle hot utensils in the kitchen"

Buddha: "Oh.. I see.. Can you tell me what did they do with the old cloth they used in Kitchen"

Disciple: "They are being used to wash the floor."

Buddha: " Then, the old rug being used to wash the floor...?"

Disciple: "Master, since they were torn off so much, we could not find any better use, but to use as a twig in the oil lamp, which is right now lit in your study room...."

Buddha smiled in contentment and left for his room.

**If not to this degree of utilization, can we at least make the best use of all our resources at home and in office?**

## Training Centre on Home Energy Management starts operations at Ranchi

Indian Association of Energy Management Professionals has started a training centre at Ranchi to provide hands on training on the finer points of energy and resources conservation. The Centre is located at E-73, Ashok Vihar, Ranchi. The training centre will also be utilized for training of HEMP volunteers from the eastern India. This is the third training centre after Bangalore and Bhopal. Presently the training is being conducted on every 2nd and 4th Sunday of the month. Interested persons to attend the training may contact mobile: 7739802121

Interested persons who would like to start similar training centre in their city/locality any where in India may contact :

Sunil Sood, National Convener, HEMPE-mail : [sunilsolar@yahoo.co.in](mailto:sunilsolar@yahoo.co.in), Mobile:09386778963

The photograph shows a view of the Training Centre at Ranchi



# WILL FUTURE GENERATIONS HAVE TO FACE MORE SERIOUS CRISIS

Energy is defined as the capacity to do work and entropy is the negation of that capacity. Energy of a system is the potential ability to do work & entropy is the potential inability to do that work. Entropy is associated with 'disorder'.

The law of entropy, which is one of the greatest discoveries of the human mind, states that whenever a system does work, unless it is an ideal reversible work, its entropy increases & its potentiality for further work decreases. This is true for all systems- from the non-living world to all living organisms, including man & his society.

The greatest scientist Albert Einstein said 'The law of entropy in its fundamental universal applicability shall never be over-thrown'.

All activities in nature including those of man & his society need energy. This is well known. But what is not so well known & often ill-understood is the fact that along with energy, all activities are inextricably entangled & entrapped in entropy.

All systems-be they communities of atoms or communities of men-begin with some potential for activities. As activities continue to grow, the potential continues to decay, depending among other factors on the rate or speed of activities. However, as a law of nature again, the rate of decrease of the potential in general is greater than the rate of increase of activities. For example, if the speed of activities leads to an exponential growth of three 'P's - Production, Population and Pollution - there is an exponential demand for energy. This is well known. But what is not so well known and not well taken care of is that with an exponential rise in energy, there is invariably and in evidently not only exponential but a super-exponential rise in entropy. If the energy speeds up at some rate, entropy rockets up at a much higher rate with the risk of the system of the society eventually disintegrating or even exploding.

Entropy is associated with 'error', with 'disorder'. with 'dissipation' and 'degradation'. Therefore, with a high entropy density in the 'World around' and also in the 'World within', man may eventually land into a whirlpool of chaos and confusion and 'self-inflicted' and 'ego-inflated' strifes and strikes for so-called 'self-survival' on the edge of a precipice, poised precariously for a 'drama', which may be Nature's plan of paying man with his own coin, his own last act of plunging head-long into the 'mirage' of so-called self-survival and self-gratification, and to get in fact, quite something else which may be self-extinction and self-elimination.

As man in some sections of the human society continues spinning around more and more of his demands for the so-called needs - redundant needs of

## "ENTROPY CRISIS"?

goods and services-needs which were not in his mind but inflicted artificially from outside 'sales, services and shows', he gets trapped into all kinds of methods and machines. As a result then all kinds of metals and materials, cakes and cans, tools and toys make deep inroads in his life and living processes.

All kinds of activities today viz techno-scientific, agro-industrial and socio-economic activities are fundamentally bipolar, with an apparent positive 'gain' at one pole and a negative 'loss' at the other pole or the high economic production at the one pole and equally high energy losses at the other.

Out of 100J of energy, for example, in a given sample of coal, in which nature has trapped energy from the sun stored below the bowels of the earth in the coal mine through millions of years, man today after mining that coal, hauling it down hundreds of kilometers and then crushing or grinding and burning it, gets not even 30 or 40J in the form of electrical energy as is often found in published literatures but a mere 5 to 6 J in the form of electrical energy, which man so randomly and redundantly wastes for the satisfaction of his so-called 'needs'-not only his few basic needs but many so-called other 'parasitic' needs, proliferating out of so much and so many wasteful and 'High-entropy Pleasure' which eventually lead to so much and so many forms and functions of 'High Entropy Activities' and with exponential escalations of these activities every year, man, it appears, is trapped in a tempest of energy wastes due to the whirl wind of activities which are highly wasteful. We emphasise the word 'wasteful' because the state of a good quality of pleasure in a living organism is usually a state of comparatively low entropy. Profit in a business, concerned with maximum of economy and minimum of wastages, is a good index of high efficiency and low entropy. But the quantum and the quality of pleasure, the number and nature of pleasure, which man today indulges in, are extremely wasteful not only with regard to energy consumption but with regard to energy degradation and entropy creation.

Profit is ploughed back today at usually high cost of energy capital. What is profit in money coin at one end is loss in entropy coin on the other. So-called economics today is indeed a high entropy economy.

More production today with its long tail of energy degradation and entropy creation is based on high entropy technology.

The concept of driving the economy towards the concept of quantity, the concept of more magnitude, the concept of the much and the much more and

towards the concept of lower cost of money or even the energy consumption in complete disregard of the 'energy-degradation' and what is worse still, of 'entropy-creation', is a dangerous economy. And so also is 'high entropy technology'. A technology based merely on the concept of the speed and production of so much of tangible goods with so much more of intangible entropy is equally a dangerous technology.

The danger lies not so much because of the rapid depletion of non-renewable resources of fossil fuel energy; but more so because of the complacency based on the concept that once the renewable resources like the solar energy or the nuclear such as fusion energy could be harnessed, man's energy problem would be solved once and for all.

But what good it would be, if with all the energy, man gets trapped in the entropy of his own making and, what, if such virtually non-exhaustive resources of energy at his command be fuelled to propel his exponentially increasing demand of energy consumption and concomitant energy degradation per capita, leading to a super-exponentially increasing rate of increase of entropy not only in the bio-sphere in world around man but also in the 'neuro-sphere' in the world within him.

It is a fact of science that all systems, including the neuro-sphere can for good thermodynamic reasons, bear the load of only so much of entropy density and no further. Man may then face the risk of the worst of Eco-crisis viz. the crisis of a 'Critical Density of Entropy'

The danger then would be that the very process of initiating or accelerating scientific activities towards minimizing the entropy-density would merely accelerate further the rate of creation of entropy and thereby negate the very object of the process. Man may then get trapped in a very difficult and indeed a dangerously explosive situation much like the 'critical size' of an atom bomb.

What is necessary now is to have a hard, deep and a new look at energy and entropy and steer the society to a path of production based on a new technology and a new economy. based not only on the concept of 'total energetics' but also 'total entropics' not only on the concept of efficiency based on law of energy but more so the efficiency based on the law of entropy.

Let us get to the root of the troubles today-to the root of so much and so many crises viz. food-crisis, population-crisis, pollution-crisis, eco-crisis, cultural-crisis and certainly energy-crisis too.

*(Excerpts from Chapter-13, 'Thermodynamics Energy and Entropy' by Late Dr.G.P.Chatterjee Published by Steel Authority of India Limited)*

## Now learn the finer points about Home Energy Management

### From the Comfort of your Home Through Distance Training Package

#### The Package Includes

- CD containing complete information and presentations about Home Energy Management
- Subscription of monthly newsletter- "HEM News" for 12 issues.
- Certificate of authorization to conduct HEM Awareness/Training Programmes after successful completion of the training.
- Life membership of HEM Consultants Club (On-line)

#### The Fee Payable

- One time fee of Rs.1,000/- ( Rupees One Thousand Only)

#### The Mode of Payment

- Demand Draft payable at Bangalore or any where banking cheque of ICICI, HDFC, SBI etc. in favour of " Indian Association of Energy Management Professionals" payable at Bhopal.

#### Nomination Procedure

- Nominations giving Name, Address, E-mail ID and Mobile No along with fee may be sent to:

**Indian Association of Energy Management Professionals, C-8, Chanakyapuri, Chunabhatti, Kolar Road, Bhopal-462016**

For any clarifications please contact: Mr K.D.Bairagi, Mobile No.: 09907270259 ; e-mail: [iaemp@yahoo.com](mailto:iaemp@yahoo.com)

## Are you a 'Resource fool' person?



If we have all the money in the world, does it entitle us to consume energy and resources recklessly; without consideration for others?

The least we can do is - not to waste the precious energy and resources foolishly. For example: see this picture clearly. Even though the streetlight is on just in front of the two houses in the picture, both of them have also switched on their own porch light! Some of them even leave these lights on during the power cut period when the supply is through the UPS! More lavish ones use the Incandescent Bulbs for such applications and even leave them on during the whole night.

There are so many examples we come across, all clear cases of foolish use of energy and resources. Through the Home Energy Management Programme we are not only making people aware about techniques of smart use of energy and resources but also creating a cadre of trained personnel to implement these techniques. If you would like to be a part of HEMP, please write to:

**Sunil Sood, e-mail: [sunilsolar@yahoo.co.in](mailto:sunilsolar@yahoo.co.in) ; mobile:09386778963**

# Comparison between CFL and LED Lamps

The electricity used over the lifetime of a single incandescent bulb costs 5 to 10 times the original purchase price of the bulb itself.

Compact Fluorescent Lights (CFL) and Light Emitting Diode (LED) bulbs have revolutionized energy-efficient lighting.

CFLs are simply miniature versions of full-sized fluorescents. They screw into standard lamp sockets, and give off light that looks just like the common incandescent bulbs - not like the fluorescent lighting we associate with factories and schools.

LEDs are small, solid light bulbs which are extremely energy-efficient. New LED bulbs are grouped in clusters with diffuser lens, which have broadened the applications for LED use in the home.

## Benefits of LED Lamps

*Long-lasting* - LED Lamps last up to 10 times as long as compact fluorescents, and far longer than typical incandescents.

*Durable* - since LEDs do not have a filament, they are not damaged under circumstances when a regular incandescent bulb would be broken. Because they are solid, LED Lamps hold up well to jarring and bumping.

*Cool* - these bulbs do not cause heat build-up; LEDs produce 3.4 btu's/hour, compared to 85 for incandescent bulbs. This also cuts down on air conditioning costs in the home.

*Mercury-free* - no mercury is used in the manufacturing of LEDs.

*More efficient* - LED Lamps use only 2-10 watts of electricity (1/3rd to 1/30th of Incandescent or CFL) Small LED flashlight bulbs will extend battery life 10 to 15 times longer than with incandescent bulbs. Also, because these bulbs last for years, energy is saved in maintenance and replacement costs. For example, many cities in the US are replacing their incandescent traffic lights with LED arrays because the electricity costs can be reduced by 80% or more.

*Cost-effective* - although LEDs are expensive, the cost is recouped over time and in battery savings. The best value comes for commercial use where maintenance and replacement costs are expensive.

*Light for remote areas* - because of the low power requirement for LEDs, using solar panels becomes more practical and less expensive than running an electric line or using a generator for lighting.

## Limitations of CFL Lamps

- ♦ *On/Off cycling*: CFLs are sensitive to frequent on/off cycling. Their rated lifetimes of 10,000 hours are reduced in applications where the light is

switched on and off very often. Closets and other places where lights are needed for brief illumination should use incandescent or LED bulbs.

- ♦ *Dimmers*: Dimmable CFLs are available for lights using a dimmer switch, but check the package; not all CFLs can be used on dimmer switches. Using a regular CFL with a dimmer can shorten the bulb life span.
- ♦ *Timers*: Most CFLs can be used with a timer, however some timers have parts which are incompatible with CFLs; to check your timer, consult the timer package or manufacturer. Using an incompatible timer can shorten the life of a CFL bulb.
- ♦ *Outdoors*: CFLs can be used outdoors, but should be covered or shaded from the elements. Low temperatures may reduce light levels - check the package label to see if the bulb is suited for outdoor use.
- ♦ *Retail lighting*: CFLs are not spot lights. Retail store display lighting usually requires narrow focus beams for stronger spot lighting. CFLs are better for area lighting.
- ♦ *Mercury content*: CFLs contain small amounts of mercury which is a toxic metal. This metal may be released if the bulb is broken, or during disposal. New 'Alto' CFL bulbs are now available with low-mercury content. For more information about mercury and CFLs, see below.

The principle reason for reduced lifespan of CFLs is heat. CFLs exhibit shorter lifespans in light fixtures and sockets where there is low air-flow and heat build-up such as recessed lighting. For these types of sockets it is recommended to use specially designed CFLs for recessed lighting or LEDs. Another main reason for reduced lifespan of CFLs is too-frequent on/off cycling. These bulbs should be used where they will be left on for steady periods without being flicked on and off.

## Mercury and CFLs

Mercury is a toxic metal associated with contamination of water, fish, and food supplies, and can lead to adverse health affects. A CFL bulb generally contains an average of 5 mg of mercury (about one-fifth of that found in the average watch battery, and less than 1/100th of the mercury found in an amalgam dental filling). A power plant will emit 10mg of mercury to produce the electricity to run an incandescent bulb compared to only 2.4mg of mercury to run a CFL for the same time. The net benefit of using the more energy efficient lamp is positive, and this is especially true if the mercury in the fluorescent lamp is kept out of the waste stream when the lamp expires.

## Ideas to save fuel and reduce congestion on roads

- Promote shared Taxi/Auto services/ Commercial Car Pool Services
- Identify employees who can work from home at least on alternate days. IT companies, marketing sector and many other organizations should be easily able to do so.
- Increase speed of clearance at road junctions. This can be done by synchronizing the signals and also by shifting the stop line 30-40 metres before the junction.
- Promote use of two wheelers for single commuters. Giving some concessions on traffic rules for two wheeler users can do this. Like allowing 'U-turn' for two wheelers and permitting entry at some of the 'no-entry' roads
- Encourage mutual transfer near place of residence.
- Revise Car allowance rules .Many people buy car just to claim the allowance. Instead the same money can be paid in some other form.
- Promote distant education. Schools can be closed for different days and lectures may be given on TV/internet.
- Promote extensive use of internet/mobile for ticket bookings/order placement.
- Discourage unnecessary meetings/ conferences/ seminars in Hotels etc. Instead promote video conferencing. Even Interviews can be conducted through video-conferencing.
- Spread information about alternate routes and put more road signs.
- Promote good agencies for door-deliveries of goods and services.
- Allow only even numbered Vehicles in the congested/central areas on even hours and odd no vehicles on hours days. In many countries similar rules exist to de-congest central district areas.
- Identify loss making businesses on the congested roads and offer compensation to them to close down/ relocate.
- Ban 'Barats', and Religious/Political processions on the road.
- Modify design of Autos/Buses to increase occupancy.

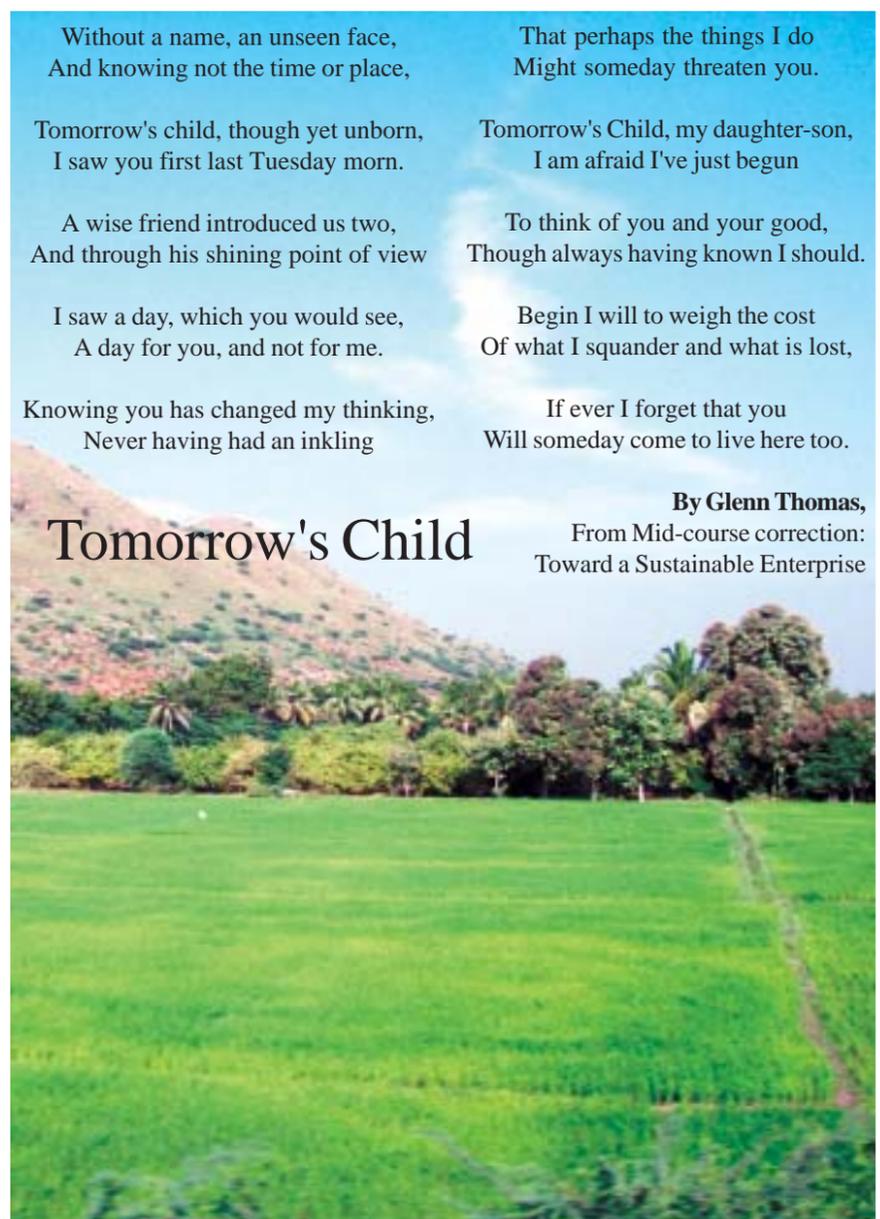
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- ❖ Articles must be original, in electronic version, 500 words or less. If you are using material from external sources, please acknowledge them.
- ❖ Please include contact information (full name, title/organization, phone numbers, and email ID) with your submission.
- ❖ Articles should be in MS word, single spaced, with easily readable font, preferably arial size 12. Photos should be of high resolution.
- ❖ Please e-mail your submissions to The Editor, "HEM News" at sunilsolar@yahoo.co.in
- ❖ There are no deadlines for submissions. You may submit articles anytime.
- ❖ We reserve the right to edit, rewrite or reject any article.

All contributors whose ideas would be accepted for publication will get free subscription of "HEM News" for 1 year.



Without a name, an unseen face,  
And knowing not the time or place,

That perhaps the things I do  
Might someday threaten you.

Tomorrow's child, though yet unborn,  
I saw you first last Tuesday morn.

Tomorrow's Child, my daughter-son,  
I am afraid I've just begun

A wise friend introduced us two,  
And through his shining point of view

To think of you and your good,  
Though always having known I should.

I saw a day, which you would see,  
A day for you, and not for me.

Begin I will to weigh the cost  
Of what I squander and what is lost,

Knowing you has changed my thinking,  
Never having had an inkling

If ever I forget that you  
Will someday come to live here too.

## Tomorrow's Child

By Glenn Thomas,  
From Mid-course correction:  
Toward a Sustainable Enterprise

## Letters from readers...

Thanks for sending HEM Newsletter. It is educative and very relevant to our day to day life.

My best wishes to you and your team.

Best regards,

**Rakesh Kumar**

Member of iaemp yahoo group.

Chief Project Manager

IndianOil Corporation Ltd, SCOPE Complex, core-2

Institutional Area, Lodhi Road, New Delhi-110003

Please send your frank views about our newsletter to:

Email: [sunilsolar@yahoo.co.in](mailto:sunilsolar@yahoo.co.in)

# Calling Investors/experts/consultants/suppliers & Individuals interested to live in green environment

## First call for Participation in 'Green Ashram' projects

### 1.0 Background of the Promoters

The 'Green Ashram' projects are being planned by LCG Energy Consultants Private Limited, a newly formed company, promoted by a multi-disciplinary group of highly experienced energy and environment experts, engineering professionals and entrepreneurs with the noble intentions to make our planet cleaner and greener.

The promoters believe that it is possible to do so by creating a culture of being Lean (consuming modestly), Clean (being efficient in use of energy and resources) and Green (using renewable energy). That is how the name of the company has been coined with the first three letters of the name i.e. L, C and G standing for being Lean, Clean and Green respectively.

The company has a pan India presence with operations in all major states of the country. Further all the promoter members of the company are qualified engineers, majority of them additionally certified as Energy Auditors/Energy Managers by Bureau of Energy Efficiency under the Ministry of Power. Most of them are also Life Members of Indian Association of Energy Management Professionals

The names, locations and e-mail IDs of the key promoters are given below:

Sl.	Name of the promoter	Location	email id
1.	Mr. G.G Dalal	Mumbai	ggdin2003@yahoo.com
2.	Mr. A.K.Verma	Raipur	akvhome@gmail.com
3.	Mr. P.A.Johny	Thrissur	pajohny@hotmail.com
4.	Mr. Bhupal Singh	New Delhi	singh.bhupal@gmail.com
5.	Mr. R Vaidyanathan	Alwar	rvaidyanathan_1@yahoo.co.in
6.	Mr. Sathyarayanan Rao	Bangalore	sathyarayanan.r@rediffmail.com
7.	Mr. S. Gopal	Bangalore	goodwillgopal@gmail.com
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9.	Mr. B.R. Sathyakeerthi	Bangalore	keerthibankapur@yahoo.com
10.	Dr. Padam Singh	Bhopal	
11.	Mr. K.D. Bairagi	Bhopal	kamlachhaya@yahoo.co.in
12.	Mr. N. Ravishankar	Chennai	ravishankar_nagarajan@yahoo.com
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15.	Mr. P.V.Jose	Kerala	josepv_ponmani@yahoo.com
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19.	Mr Sumit Thakur	Ghaziabad	singh.bhupal@gmail.com
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22.	Mr. Mani P.	Kerala	comtechmani@yahoo.co.in
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24.	Mr T.Jayarajan	Chennai	teejay@seco-india.com
25.	Mr Dinesh Lamba	Kolkata	lcgenergy@yahoo.in
26.	Mr T.N.Agarwal	Nashik	trilokus@yahoo.com
27.	Mr R.A.Sharma	Hyderabad	Masteriso7k@yahoo.co.uk
28.	Mr Pradeep Kumar	New Delhi	
29.	Dr Surendra Sood	Bhopal	surechasood@yahoo.com
30.	Mr Rajeev Sood	Bhopal	seepindia@yahoo.co.in
31.	Mr Ramesh Thakur	Bhopal	rt_thakurramesh@yahoo.com

### 2.0 The concept of 'Green Ashram'

With the ever-increasing urbanisation and privatisation of the housing sector, every day new projects are announced by builders. Further, there are group housing cooperative societies and other schemes coming up in every nook and corner of our cities and towns. However, most of such projects are being planned with hardly any thought about their impact on the environment. This is resulting in congestion, water and power problems, poor air quality etc and making our life miserable.

Today's hectic and un-natural life style is full of stress and all of us wish to spend some time with the nature and learn how to live in harmony with the nature. Many of us would even want to spend rest of our life in an environment where we get peace of mind. Thanks to the campaigns on Climate Change and its likely adverse effects, more and more people and corporate business houses are getting interested in adopting measures to mitigate the bad effects of the climate related problems. However, a lot remains to be done in this direction.

The solution to all the problems lies in promoting sustainable living which can be achieved by looking into all aspects of development such as environmental, social and economic aspects. The concepts of 'Green Building', 'Sustainable Habitat', 'Zero Emission Homes' etc need to be popularized at much faster rate. There is a need to create a mass awareness level and cadre for taking these concepts to implementation stage.

Further, due to increased awareness about the need and benefits of sustainable ways of living the demand for environment friendly concepts, products and services is increasing every day. However, there is a huge supply gap to effectively meet the demand. There are several issues yet to be sorted out about successful adoption of green practices. The lack of confidence on genuineness of the products and missing marketing and after sales network for 'Green Products' are some of the issues which need to be addressed.

With this background, LCG Energy Consultants Pvt.Ltd. has conceived the idea of starting a chain of 'Green Ashrams' with the following key objectives:

1. Demonstration & Training on Sustainable Concepts
2. Promotion of Green technologies and practices
3. Promotion of 'Eco-tourism' and 'Eco-citizenship'
4. To support government schemes and programmes for development of rural areas

In order to streamline the availability of all green products and services, "Green Ashrams" would also show case and popularize such concepts, products and services to create supply chain. The 'Green Ashrams' will also have facilities for exhibition/training g/conference halls etc. for demonstration, and awareness/education programmes.

The "Green Ashrams" would be planned in Villages Thus; the participants would not only get to learn the green concepts and live in sustainable environment but would also get a chance to serve the under-privileged.

The concept would finally lead to development of sustainable habitat and help mitigate the threats due to the climate changes.

### 3.0 Location of the first project

The first 'Green Ashram' is proposed to be started in Dhyapnalli village in Davangere District of Karnataka State. The site located at about 350 Kilometers from

Bangalore, has been identified and the land belongs to one of the promoters Mr B.R.Sathyakeerthi. Out of the 10 Acres holding, the Ashram will be planned in 1 Acre land.

### 4.0 Facilities to be provided in "Green Ashrams"

The Ashrams will be designed for a peak population of 50 persons only. Out of this, 25 persons will be permanent residents and the balance capacity will be for the floating population comprising of visitors, trainees and faculty etc for various regular programmes to be conducted in the Ashram.

The Ashrams will have all the facilities required for demonstration of sustainable buildings design and living practices along with recreation, health care, entertainment, indoor games, library etc.

### 5.0 When the first project is likely to be completed?

The construction work for the first project is planned to start by November, 2010 and will start functioning from 2nd October, 2011 on the occasion of Gandhi Jayanti.

### 6.0 Who can be a partner in the project?

1. Individuals interested to invest in the project and/or would like to live in the Ashram for a few days in a year or on permanent basis.
2. Experts/Consultants/Suppliers who would like to be associated with the project on mutually agreed terms and conditions.

### 7.0 Selection Criteria

The selection of the participants in the project will be done on the basis of the applicants' commitment, past achievements, and willingness and capabilities to work as a team member.

### 8.0 Guaranteed benefits to the respondents

All respondents of the this call who send their filled-in application will be issued a certificate which will entitle the applicant or his nominee a free stay of 2 days in any of the 'Green Ashrams' to be established all over the country irrespective of the applicant's selection for active participation in the project.

### 9.0 Procedure for participation in the project

Interested Individuals/Experts/Consultants/Suppliers may apply with their brief profile along with application fee as per the following:

#### 9.1 Application fee

1. Individuals/Investors Rs 500 /-
2. Experts/Consultants/Suppliers Rs 1000/-

#### 9.2 Mode of Payment

The application along with at par cheque / DD in favour of LCG Energy Consultants Pvt.Ltd., Bhopal may be sent to:

The Executive Director (H.O.) LCG Energy Consultants Pvt.Ltd.  
C-8, Chanakyapuri, Chunabhatti, Kolar Road, Bhopal-462016

### For any clarifications please feel free to contact:

Mr Dinesh Lamba, Mobile: 09748865894, E-mail: lcgenergy@yahoo.in

### 10.0 Post selection procedure

The selected individuals/investors/experts/consultants/suppliers will be informed more details of the project with various options and other terms and conditions for final selection.



## GANDHIJI'S TALISMAN

**“ I will give you a Talisman.  
Whenever you are in doubt, Or  
When the self  
becomes too much with you,  
Apply the following test :  
Recall the face of the poorest and  
the weakest man  
Whom you may have seen and ask  
yourself if the step you contemplate  
Is going to be of any use to him.  
Will he gain anything by it ?  
Will it restore him to a control  
over his own life and destiny?  
In other words,  
Will it lead to Swaraj?  
For the hungry and spiritually  
starving millions?  
Then you will find Your doubts, and  
Your self melting away.”**

**M.K.Gandhi**