

The Institute of Chartered Accountants of India
(Set up by an Act of parliament)



TUTICORIN BRANCH OF SIRC NEWS LETTER

August 2009

Chairman's Articulate



Dear members and students,
Greetings!!

Our branch is having lot of programs for the benefit of students and members. The managing committee stands for your trust and the outlook of the managing committee's dream is delivered "Thinking ahead, Going beyond, Achieving what we set out to do." The programs were designed in such a

way having in mind to build an organization of CA fraternity to focus to shift the attitude and to know about their position and step in and come up in the ladders of their success as they arise themselves.

Let us be very clear that the ultimate objective of building any organization is to ensure maximum growth for maximum people in maximum ways. Do not get too attached to your methodology of working and loose sight of your vision. Please do not be a bottleneck to your own vision. Everybody cannot have vision to the sense of grandeur which you have. There are enough people who can work and let them work through your system towards your vision. The managing committee plans to bring more hands, more legs and more intelligence to work on your objectives.

Notable are:

- 1) Orientation course for IPCC students.
- 2) Industrial visit and submission of report on the coir industry by the CA students of Tuticorin branch.
- 3) Soft skill program on team building and goal setting.
- 4) Elocution and quiz competition.
- 5) Awareness program on Go-Green, Live-Green with the unique participation of animal in this program.
- 6) Submission of comments to the exposure draft.
- 7) Live program on union budget.

We are doing the lot and we need lot of leaders to evolve this strategy. The strategy can be worked out through your participation and live every moment of life intensely as members and students are the autonomic nervous system of Tuticorin branch. I remain for the time being and look for the participation in large numbers in the days to come.

With Regards,
B.Francis Amal George.



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SOLAR POWER-ENERGY FROM THE SUN

Introduction

We've used the Sun for drying clothes and food for thousands of years, but only recently have we been able to use it for generating power. The Sun is 150 million kilometres away, and amazingly powerful. Just the tiny fraction of the Sun's energy that hits the Earth (around a hundredth of a millionth of a percent) is enough to meet all our power needs many times over.

In fact, every minute, enough energy arrives at the Earth to meet our demands for a whole year - if only we could harness it properly. Currently in the UK there are grants available to help you install solar power in your home.

How it works

There are three main ways that we use the Sun's energy:-

1. Solar Cells

(really called "photovoltaic", "PV" or "photoelectric" cells) that convert light directly into Electricity.) In sunny climate, you can get enough power to run a 100W light bulb from just one square metre of solar panel.

This was originally developed in order to provide electricity for satellites, but these days many of us own calculators powered by solar cells.

2. Solar water heating

Solar water heating, where heat from the Sun is used to heat water in glass panels on your roof.

This means you don't need to use so much gas or electricity to heat your water at home.

Water is pumped through pipes in the panel. The pipes are painted black, so they get hotter when the Sun shines on them. The water is pumped in at the bottom so that convection helps the flow of hot water out of the top.

This helps out your central heating system, and cuts your fuel bills. However, with the basic type of panel shown in the diagram you must drain the water out to stop the panels freezing in the winter. Some manufacturers have systems that do this automatically

Solar water heating is easily worthwhile in places like California and Australia, where you get lots of sunshine. Mind you, as technology improves it's becoming worthwhile in the UK.

Here's a more advanced type of solar water heating panel.

The suppliers claim that in the UK it can supply 90% of a typical home's hot water needs from April to November. This "Thermomax" panel is made of a set of glass tubes. Each contains a metal plate with a blue-ish coating to help it absorb solar energy from IR to UV, so that even in diffuse sunlight you get a decent output. The air has been removed from the glass tubes to reduce heat loss, rather like a thermos flask.

At the back of the metal plate is a "heat pipe", which looks like a copper rod but contains a liquid that transfers heat very quickly to the top of the glass tube. A water pipe runs across the top of the whole thing and picks up the heat from the tubes.

3. Solar Furnaces

Solar Furnaces use a huge array of mirrors to concentrate the Sun's energy into a small space and produce very high temperatures.

There's one at Odeillo, in France, used for scientific experiments. It can achieve temperatures up to 3,000 degrees Celsius.

Solar furnaces are basically huge "solar cookers". A solar cooker can be used in hot countries to cook food. This one is in the UK, making tea and coffee, although it does take a long time!

More:

Solar cells provide the energy to run satellites that orbit the Earth. These give us satellite TV, telephones, navigation, weather forecasting, the internet and all manner of other facilities.

The graphic shows a GPS satellite. A satellite navigation receiver in a car gets signals from a whole host of these and works out it's own position.

In California, the Solar One power station uses the Sun's heat to make steam, and drive a generator to make electricity. The station looks a little like the Odeillo solar furnace, except that the mirrors are arranged in -circles around the "power tower".

As the Sun moves across the sky, the mirrors turn to keep the rays focussed on the tower, where oil is heated to 3,000 degrees Celsius. The heat from the oil is used to generate steam, which then drives a turbine, which in turn drives a generator capable of providing 10kW of electrical power. Solar One was very expensive to build, but as fossil fuels run out and become more expensive, solar power stations may become a better option. One idea that is being considered is to build solar towers. The idea is very

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simple - you build a big greenhouse, which is warmed by the Sun. In the middle of the greenhouse you put a very tall tower. The hot air from the greenhouse will rise up this tower, fast - and can drive turbines along the way. This could generate significant amounts of power, especially in countries where there is a lot of sunshine and a lot of room, such as Australia.

Solar energy isn't always about generating electricity:

For example, photoluminescent products store light energy and release it later. They're also called "self-luminous" and are a useful source of emergency lighting in the event of a sudden power outage.

See Emergency Lighting and Self-luminous Exit Signs—a Perfect Match! and read an example of safety standards about emergency lighting here.

Advantages

- Solar energy is free - it needs no fuel and produces no waste or pollution.
- In sunny countries, solar power can be used where there is no easy way to get electricity to a remote place.
- Handy for low-power uses such as solar powered garden lights and battery chargers, or for helping your home energy bills.

Disadvantages

- Doesn't work at night.
- Very expensive to build solar power stations, although the cost is coming down as technology improves. In the meantime, solar cells cost a great deal compared to the amount of electricity they'll produce in their lifetime.
- Can be unreliable unless you're in a very sunny climate. In the United Kingdom, solar power isn't much use for high-power applications, as you need a large area of solar panels to get a decent amount of power. However, technology has now reached the point where it can make a big difference to your home fuel bills

Is it renewable? Solar power is renewable. The Sun will keep on shining anyway, so it makes sense to use it.

Source: www.darvill.clara.net

compiled by
CA K.Selvaraj

Student speaks

"The heights by great men reached and kept, were not attained by sudden flight, but they while their companions slept, were toiling upwards in the night"
- H.W. Long Fellow

All of us wish for a more pleasing life. We yearn for a more flourishing career, deeper and more significant relationships, a healthier and more robust body. Sometimes, when we see people who seem to have it all, we imagine that it's all a matter of chance. But this is not true. We can learn to live better and to feel better.

We are all born to win the game of life, but few of us actually realize that potential and live a truly fulfilling life. That's largely because it isn't obvious how to go about life in a successful manner. To challenge everything, a student must have power over some education other than their routine education say leadership qualities, good communication, sound decision making, positive thinking, managing time, controlling anger and stress, teamwork, interpersonal skills etc. They don't teach much about that at school, and one's parents probably don't have too much of an idea either.

Every educational institution strives for academic excellence for which it is founded. No education is complete without extra curricular and co-curricular activities. Our Institute has included several co-curricular and extra curricular activities in its streamline of learning process. This in turn helps to draw out the latent potential of every individual from within.

It is a well known fact that teachers play a vital role in shaping the personality of the children. Our Gurus believe that their role is not just to impart knowledge but also to assist their students in all aspects of development both mentally and physically. Sometimes going out of the routine makes learning more interesting. Even here, the Children who do not produce "normal" things but have the capacity to think and create in a different angle get appreciated. We were taught to enjoy nature and simple pleasures of life.

The teaching also involves helping the students to acquire a variety of skills such as making friends, developing social contracts etc. apart from scoring marks. Relational skills turned out to be important here skills that enable understanding of interaction with the new unfamiliar circumstances. Each and every page of this newsletter reveals the aesthetic nature of both the Chartered Accountants and Students.

Our Institute developed in us an organized life style. It taught us to plan our day in definite frames. For all the progress today, the best open secret of success is still none other than the good old "Planning & Hard work" formulae.

pray that our Tuticorin ICAI shines much more than what it is today.

- Mr.A.Antony Joshua

TUTICORIN BRANCH OF SIRC



First Prize winner of elocution contest
Miss. J.S. Deepikka Veermathy receiving the prize from
Prof. Mrs. Stella Beatrice, St.Mary's College



Second Prize winner of elocution contest
Mr. S. Bharath receiving the prize from
Prof. Mrs. Stella Beatrice, St.Mary's College



Quiz Competition first prize winners
Miss. N. Rajalakshmi and Miss. R. Maheshwari



Members with the participants of elocution
and quiz competition



Industrial visit to coir industry on 25.07.2009

The institute / Branch does not accept any responsibility for the views expressed in different contributions / Advertisements published in this Newsletter

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