



**“Getting Ready for Renewable Energy - GND”**

**Europe-India Initiative: 21<sup>ST</sup> DECEMBER '09 PUNE-INDIA**  
**G.N.D. Green New Deal: bright prospects in Renewable Energy**  
**Human Resource Development**

Technology development, Installing, operating and maintaining  
 Renewable Energy equipment

*UNDER THE AUSPICES*

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# TERRE signs MoU with Italian firm for training manpower

TIMES NEWS NETWORK

**Pune:** City-based Technology, Education, Research and Rehabilitation for Environment (TERRE), an organisation working in the field of environment, has signed a memorandum of understanding (MoU) with the Italian training institute Centro Studi Galileo Industria and Formazione (CSGIF) to provide training in the field of renewable energy.

Along with technicians, companies that manufacture and service renewable energy equipment will be targeted by the training institute.

CSGIF deputy director Marco Buoni said, "We will be working with TERRE to organise training programmes in India. It will be a customised course where senior experts from our facility in Italy and some local trainers will train the participants." At present, there are companies that manufacture and supply renewable energy equipment, but they do not have upgradation courses or maintenance courses for this field, he said.

The first course is scheduled to start in the month of April and will admit a maximum of 30 technicians. The institute will have a variety of courses, like solar thermal technology, photo-voltaic cells and wind technology, among others.

Paolo Buoni, deputy director of CSGIF said, "Around one million technicians from the three states — Andhra Pradesh, Gujarat and Maharashtra — need technology upgradation course. The Indian training market is huge and we would conduct courses in various states with local partners."

Talking about the current scenario, Rajendra Shende, head of United Nations Environment Programme's division of technology, industry, economics and ozone action branch, said, "Technology is developing at an accelerating rate and it is important to develop human force that can work with the technology. Programmes like this will help create prospective entrepreneurs, building an infrastructure to promote the use of renewable sources of energy."

# अपारंपरिक ऊर्जेमध्ये भारताला संधी

खनिज तेल व कोळशाचे साठे संपतील; प्रदूषणाचा प्रश्नही गंभीर होईल : राजेंद्र शेंडे

पुणे, ता. २४ : "येत्या काळात खनिज तेल आणि कोळशाचे साठे संपणार असून, प्रदूषणाचा प्रश्नही गंभीर होणार आहे, त्यामुळे ऊर्जेचा प्रश्न सोडवण्यासाठी जगाभरात शाश्वत पर्यायांवर संशोधन सुरू आहे. यामध्ये सौर ऊर्जा, पवन ऊर्जा आणि बायोर्गॅस तंत्रज्ञानामध्ये भारताला संधी आहे. युरोपीय देशांत सौर ऊर्जेमध्ये चांगले संशोधन झाले असून, याचा भारतात प्रसार होण्याची गरज आहे. या तंत्रज्ञानामुळे रोजगाराच्या अनेक संधी येत्या काळात उपलब्ध होतील," असे मत संयुक्त राष्ट्र संघाच्या ओझोन कृती गटाचे प्रमुख राजेंद्र शेंडे यांनी व्यक्त केले.

पुण्यामध्ये ता. १८ रोजी मराठा चेंबर्स ऑफ कॉमर्स, इंडस्ट्रीज अँड अॅग्रिकल्चर येथे अपारंपरिक ऊर्जेविषयी चर्चासत्राचे आयोजन करण्यात आले होते. या वेळी अपारंपरिक ऊर्जेसंबंधी प्रसार आणि प्रशिक्षण आयोजित करणारी संस्था 'तेर' आणि इटलीमधील सेंट्रो स्टुडी गॅलिलिओ यांच्या संयुक्त विद्यमाने प्रशिक्षण केंद्राची भारतात सुरवात करण्यात आली. याबाबत 'तेर' संस्थेच्या अध्यक्षा विनिता आपटे यांनी सांगितले,



पुणे : मराठा चेंबर्स ऑफ कॉमर्स, इंडस्ट्रीज अँड अॅग्रिकल्चर येथे अपारंपरिक ऊर्जेविषयी चर्चासत्रात मार्गदर्शन करताना राजेंद्र शेंडे.

ी भारतातील अपारंपरिक ऊर्जेमधील प्रोग्राम समूह, संस्था आणि विद्यापीठांच्या हकार्यातून विविध ठिकाणी येत्या काळात तंत्रज्ञान प्रसार आणि प्रशिक्षण शक्य कार्यक्रमाने आयोजन करण्यात आणार आहे. यासाठी इटलीमधील सेंट्रो स्टुडी गॅलिलिओ या संस्थेची मदत जाणार आहे.

'सेंट्रो स्टुडी गॅलिलिओ' संस्थेतील ज्यु मार्को बोनी आणि पावलो बोनी इनी सांगितले, की युरोपमध्ये गेल्या साडे वर्षांपासून अपारंपरिक ऊर्जेचा पर वाढला आहे. यामध्ये विविध

उद्योग समूहांनी गुंतवणूक केली आहे. या उद्योग समूहांनी शीतकरण यंत्रणा, पंपांची निर्मिती केली आहे. अपारंपरिक ऊर्जेवर आधारित नवनवीन उपकरणे बाजारपेठेत येत आहेत. यासाठी मोठ्या प्रमाणात तंत्रज्ञांची मागणी आहे. त्यादृष्टीने आमची संस्था युरोपात तंत्रज्ञान प्रसार आणि विविध प्रशिक्षणाचे आयोजन करते. येत्या काळात आम्ही भारतातील 'तेर' या संस्थेच्या सहकार्याने भारतात प्रशिक्षण कार्यक्रमाचे आयोजन करणार आहोत. इटलीमधील विद्यापीठे, उद्योग समूह, प्रशिक्षण संस्थांशी सहकार्य करार

केले आहेत. याचा भारताला निश्चितच फायदा होईल.

या चर्चासत्रामध्ये 'मराठा चेंबर्स ऑफ कॉमर्स, इंडस्ट्रीज अँड अॅग्रिकल्चर'चे उप सरव्यवस्थापक अनंत सरदेशमुख, 'म्हेडा'चे सरव्यवस्थापक श्री. चौधरी, 'गेरी'चे डॉ. गोपीचंद्रन, 'ईबीएम-एनएडीआय'चे जे. बी. कामदार, 'ब्राइट लाइट सोलर'चे इयान टान्स्ले यांनी मार्गदर्शन केले. या चर्चासत्राला अपारंपरिक ऊर्जेसंबंधी काम करणाऱ्या उद्योग समूहातील तज्ज्ञ उपस्थित होते.







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# Italian co will start courses on energy mechanisms

**It will be conducted under Europe-India Initiative**

**Gitesh Shelke**

There are better prospects for technicians like plumbers and electricians in the era of renewable energy sector.

An Italian organisation, Centro Studi Galileo - Terre, Renewable Energy Training Centre, will start courses on renewable energy mechanisms in Pune for companies, in collaborations with universities and technicians.

The courses will be executed under the Europe-India Initiative programme with the help of Italian ministry of environment. Paolo Buoni and Marco Buoni of Centro Studi Galileo were in the city on Monday at a workshop 'Green new deal: Bright prospects in renewable energy — human resource development.' The workshop was based on technology development, installing, operating and maintaining renewable energy equipment. Experts in international environment Rajendra Shende and Vinitaa Apte were present.

Paolo said they have con-

ducted an Internet survey in Andhra Pradesh, Maharashtra and Gujarat and it was found that there are about a million technicians interested in the courses on maintenance of renewable energy equipment. "We are tapping technicians, agriculture sector and universities to conduct the courses," he said.

This is the first time in India that courses on maintenance of renewable energy equipment are being introduced. "There are good prospects for entrepreneurs as the courses will be customised according to need," he said, adding that the courses will be for bank staff, private companies and other skilled workers.

There are good prospects because more and more people and companies are using renewable energy equipment. "We have tied up with universities in Italy," he said.

The governments of various countries are investing in the products of renewable energy. "We are having 300 customised courses in Italy," he said. The Centro Studi Galileo will set up a training centre in India and will send trained manpower to European and other countries.



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# Renewable energy on resurgent path: UN eco programme head

EXPRESS NEWS SERVICE

DECEMBER 21

IN the midst of economic recession, renewable energy is one sector that has been on the resurgent path and around 2.3 million jobs are available in this sector, said Rajendra Shende, head of Ozone Action Group of United Nations Environment Programme.

He was talking to reporters at the launch of various courses in renewable energy by city-based Technology Education Research and Rehabilitation for Environment (Terre) in association with an Italian renewable energy training centre Centro Studi Galileo (CSG).

The courses will initially start in Pune in March 2010. UNEP will play the role of the facilitator in the activity.

Observing that the renewable energy sector has a lot of opportunities, "In a bid to curb carbon emissions, the world is moving towards renewable energy resources and there will be a huge requirement of manpower in the sector," he said.

"An investment of around \$150 billion was made in renewable energy sector all over

the world in 2008-09 which was far more compared to the \$115 billion investment in industries dependent on fossil fuel. This shows that the world is moving towards greener ways," said Shende.

Buoni said the course would help create manpower in the renewable energy sector. "We will initially target technicians in the city who will be trained in repairing instruments of renewable energy resources such as solar heater or wind mill," he said.

"The CSG has a wide experience in such training programmes and is giving training to around 300 candidates in Italy per year for the last 30 years. The trained candidates can start their own service centre or work with a company. We are also thinking of making arrangements for placements," he said.

Apte said the trainers would be local as well as experts from Europe. "There will be courses for companies as well as common people and the fee structure will differ as per the target audience and requirements," she said.

Paolo Buoni, director of CSG and coordinator of Terre Vineeta Apte were also present.



## On Earth Day, workshops on renewable energy

**Express News Service** Posted online: Friday , Apr 23, 2010 at 0108 hrs

**Pune :** On Earth Day on Thursday, various programmes were held in the city, including the launch of a workshop for repair and maintenance of renewable energy equipment.

With an aim to teach maintenance of renewable energy equipment like solar water heaters, solar panels, solar lamps and so on and create awareness about these equipments among ITI students, existing technicians and even women, city-based organisation Technology, Education, research and rehabilitation for Environment (TERRE) launched workshops to teach repairing and maintenance of these instruments on Earth Day on Thursday.

It is claimed that this is the first workshop that gives practical training on repair and maintenance of such equipments.

“One of the reasons why many are reluctant to use solar energy equipments is because they are costly and people don’t know what to do if they break down. “In order de-mystify the working of these instruments, we decided to conduct short-term workshops for those interested in their repairing and maintenance,” said Vinita Apte of TERRE. The workshops have been launched by TERRE along with Italy’s Centre Studio Galileo and Europe’s European Energy Centre.

The first workshop in this series was inaugurated on Thursday at Shahu College’s Namdeorao Audyogik Prashikshan Kendra in Parvati. Around 40 students of the college enrolled for the two-day workshop that will include repair and maintenance of solar lamps, solar heaters and so on. “Similar workshops of varied duration will be held by the organisation every month,” Apte said. Trained technicians from India and abroad will undertake the workshops. The fees for these would be between Rs 3,000 and Rs 20,000 depending on the duration of training, she added.

Meanwhile, Management Institute for Leadership and Excellence (MILE) jointly with Department of Social Forestry, GoM and Tathastu had organised a lecture by Ashden Awardee Dr Anand Karve on ‘Alternate Resources of Energy’.

Karve spoke the current practice of creation and usage of Charcoal and Biogas in various districts of Maharashtra. This was followed by a talk on the importance of social forestry by Subhash Badve, deputy director of department of social forestry. He introduced the audience to various shrubs and vegetation and educated us on the role that they play in our day-to-day life. A special issue on Earth Day 'Ecoville' was also released by TERRE as part of this function

Touting its green initiatives Courtyard by Marriott, Pune Hinjewadi stepped up its Environment Awareness Month celebrations by undertaking a tree plantation drive in the hotel premises to commemorate Earth Day.