



# UNIDOScope

weekly internet newsletter

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## International Seminar on Small Hydro Power

*Hangzhou and Chenzhou, China 16 -23 April, 2004*



*the Second UNIDO-INSHP International Seminar on Small Hydro Power (SHP) Cooperation among Developing Countries held at Hangzhou & Chenzhou, China from 16 to 23 April 2004*

The *Second UNIDO-INSHP International Seminar on Small Hydro Power (SHP) Cooperation among Developing Countries* was held at Hangzhou & Chenzhou, China from 16 to 23 April 2004. The International Network on Small Hydropower ([INSHP](#)) is co-sponsored by the United Nations Development Programme (UNDP), UNIDO, the Ministry of Water Resources (MWR) and the Ministry of Foreign Trade and Economic Cooperation (MOFTEC) of the People's Republic of China. The headquarters of the network, the International Centre for Small Hydro Power (ICSHP), is located in Hangzhou. [The Hangzhou-Chenzhou Declaration on SHP Promotion](#) was issued at the conclusion of the Seminar.

Some 190 specialists in various areas of small hydro power from 28 countries and four continents looked at five topics: SHP policies, technology and cooperation; SHP development and cooperation in Africa; SHP development and cooperation in Asia; SHP in other regions; and SHP equipment and finance. Participants also visited small hydro power production and transmission sites in Hunan Province near Chenzhou. The [Seminar homepage](#) at <http://www.inshp.org/conclusion/content.asp> has: [Seminar Proceedings with presentations and speeches](#); [The Hangzhou-Chenzhou Declaration on SHP Promotion](#); [Presentations](#); [The Seminar Report](#); [A Contact List of Seminar Participants](#); and [Seminar Pictures](#).

What is small hydro power? There is no international consensus on [the definition of small hydropower](#). "Small hydro power" encompasses pico-, micro-, mini- and small-, hydro power. A rough guide to the dividing lines between these categories at <http://microhydropower.net/size.php> says a pico-hydro plant

does not exceed 5 kilowatts in output, a micro plant has an output up to 100Kw, a mini plant up to 1,000Kw (1Mw), and a small hydro plant anything from one to 30 megawatts, although 10 Mw total capacity is becoming more generally accepted as the upper limit (1 kw of electric power can light 10-12 rural households. 30Mw is about the maximum size for most stand alone hydro systems not connected to the grid, and suitable for "run-off-the-river" installations).

UNIDO's emphasis when providing assistance in the development of small hydro power is on increasing the self-sufficiency of rural communities, a concept expressed as *SHP for productive use* ([see UNIDO webpages](#)). In presenting UNIDO's strategy on rural energy, UNIDO specialists, Messrs. Bromley and Varghese emphasized the importance of devising a solid long-term community development plan for off-grid SHP projects and listed the crucial factors in the successful organization and implementation of development programmes. These factors included: the combination of generation and distribution of energy with complementary activities; simultaneous addressing of social, economic and regulatory issues; setting up of Community Development Centres; and development of reliable and low-cost energy services that require minimal maintenance costs. The two experts also explained the basics of the "triangular cooperation framework" between developing (recipient) and developed (or developing) countries and multilateral organizations. An example of the distribution of responsibilities in this triangle was given in the presentation as: Recipient Country – Region (financial commitment for civil works, local transport and other local expenditures) / Government of China & ICSHP (Equipment + technical support through ICSHP) / UNIDO (funding for international experts, training, facilitating contracts and procurement) [view or download presentation](#).

From the ICSHP management, Professors Tong and Damodaran, ([view or download presentation](#)) described the role of the ICSHP in the triangular model. They listed the activities the ICSHP and INSHP in fostering cooperation and promoting SHP worldwide, ranging from awareness creation on SHP issues to executing projects on turnkey basis and the training of engineers and executives from the developing world. The presentation noted the on-going cooperation with India, Tanzania, Uganda and Nigeria in mini-hydropower projects. They highlighted the well developed construction base and equipment manufacturing capacity of China which had made possible the current annual SHP generation capacity of 30,000 MW serving over 300 million rural people. They described the technical features of the various types of equipment and the capacity of the whole industry and explained how cooperation in SHP issues could be extended to include also equipment supply for demonstration projects as well as training and technology transfer. All the participants who were not members of the International Network on Small Hydropower (INSHP) were invited to join the Network and take part in the development of SHP and benefit from interaction between the SHP enthusiasts, be they companies, individuals, NGOs or public entities.

see the [Feature Story](#) for more on the *Second UNIDO-INSHP International Seminar on Small Hydro Power*

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## **UNIDO ITPO Tokyo Delegate Programmes for Egypt, Morocco, Sri Lanka and India this week: The Morocco Delegate**

*Tokyo, Japan 10 May - 17 June, 2004*

Between March and June this year, UNIDO Investment Technology Promotion Office Tokyo ([ITPO Tokyo](#)) hosted delegates from Egypt (22 March - 23 April), Morocco (10 May - 17 June), Sri Lanka (10 May - 11 June) and India (17 May - 18 June), to undertake investment and technology promotion activities in Japan.

The UNIDO ITPO Delegate Programme is a mechanism by which staff of developing country institutions involved in investment promotion get hands-on experience at one of [UNIDO's ITPOs](#). In addition to being an important and effective part of the capacity-building efforts of the UNIDO ITPOs, it is not uncommon for



at the ITPO Tokyo -Morocco Investment Seminars in Tokyo and Osaka

delegates to go home with valuable contracts. Regardless of the immediate result, all go back with valuable contacts. ITPO Tokyo is one of the most active promoters of the Delegate Programme.

The Delegates from Egypt ([see UNIDOScope 4 - 10 July 2004](#)), Morocco, Sri Lanka and India have each sent UNIDOScope a brief assessment of their time in Tokyo which we will publish over the next four issues.

Senior Advisor of Morocco's Department of Investment, Mr. Karim Benjelloun, was Morocco's Delegate to ITPO Tokyo from 10 May to 17 June, with the objective of promoting business activities in Morocco to Japanese companies, especially

focusing on the electronic components and automotive parts sectors. This is Mr. Benjelloun's story.

*During the 6 weeks' stay at the ITPO Tokyo office and with the help and advice of ITPO staff, the delegate was able to meet 40 major Japanese companies and organizations and present them Morocco's business environment and opportunities, including 12 project profiles. In parallel, 2 successful investment seminars have been held in Tokyo and Osaka, co-organized by JETRO, UNIDO and the Embassy of Morocco, and with the support of major Japanese institutions.*



Morocco Department of Investment Delegate to ITPO Tokyo,  
Karim Benjelloun

*The seminars, held in Tokyo and Osaka on the 9th and 10th of June, 2004, attracted 100 and 70 participants respectively. These activities have led to the consideration of strategies for full follow-up activities in the electronic components and automotive parts sectors. With continuous efforts, we expect at least four important projects to come to fruition in Morocco in the near future. Bringing four new Japanese investors to join current investors Yazaki Corporation and Sumitomo Electric Industries, Ltd. would triple the number of major Japanese investors present in Morocco.*

*The experience at the ITPO Tokyo office was extremely fruitful in a minute-to-minute dense scheduling and working fashion, with constant advice from the ITPO staff which led the delegate to learn the Japanese business ways and behaviour.*

*Morocco now considers the ITPO Tokyo office as the investment promotion gateway between Morocco and Japan. The delegate and the Investment Department would like to transmit sincere acknowledgements to UNIDO ITPO Tokyo.*

Next week: Sri Lanka

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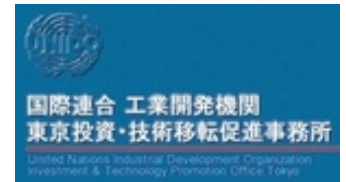
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*ITPO Tokyo INVESTMENT NEWS* (in English) from UNIDO's Investment Technology Promotion Office in Tokyo.



The Asia-Africa Investment & Technology Promotion Centre



The World Intellectual Property Organization's (WIPO's) SME e-journal



on India's Small Industries Development Organization SIDO site



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Ethiopian Business Development Services Network, part of GTZ-MSE - UNIDO programme for Micro and Small Enterprises in Ethiopia.



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