



March 1, 2004

Electric Power Development Co., Ltd

## **Signing of an Agreement for "International Cooperative Demonstration Project for Photovoltaic Power Generation Systems" - Demonstrative Research Project on Dispersed Power Generation System Technologies (Photovoltaic, Wind Power and Advanced Storage Batteries) in China**

Electric Power Development Company (President: Yoshihiko Nakagaki; "J-POWER") is pleased to announce the recent signing of an agreement for "Demonstrative Research Project on Dispersed Power Generation System Technologies (Photovoltaic, Wind Power and Advanced Storage Batteries)" with the New Energy and Industrial Technology Development Organization ("NEDO") in association with UNICO International Corp. This Demonstrative Research Project is a part of "International Cooperative Demonstration Project for Photovoltaic Power Generation Systems for FY2003", implemented by NEDO.

For the promotion of development for practical application technology of photovoltaic power generation systems, Ministry of Economy, Trade and Industry provides the subsidy for the demonstrative research to achieve performance demonstration, functional upgrading and reliability improvement of the photovoltaic power generation systems effectively under the cooperation with developing nations. This project was awarded as the result of a selection by NEDO in September of last year. The Research is scheduled to complete in the end of March 2005 and the contract amount of this project totals 400 million yen (The share of J-Power is 220 million yen.)

### **Outline of "Demonstrative Research Project on Dispersed Power Generation System Technologies (Photovoltaic, Wind Power and Advanced Storage Batteries)"**

In the Research, the pilot system of isolated hybrid generation with photovoltaic and wind power is installed in Yadan landforms of Dunhuang in Gansu Province China. The system is connected to existing mini-grid and put into operation. A series of demonstrative research will be carried out to achieve the improvement of efficiency of integrated system (photovoltaic, wind turbine and advanced storage batteries), to figure out the mitigation control of generation fluctuation and to confirm the effectiveness of advanced batteries. In the meantime, economic survey will be conducted to verify sustainability of the project and suggest the appropriate maintenance of hybrid system.

Further promotion of photovoltaic power generation is expected by wide application of isolated hybrid generation system for rich area of solar and wind energy resource as the result of this Research.

#### Overview of hybrid generation system

Solar Panels	10kW x 10 arrays
Wind Generators	10kW x 10 units
Advanced Storage Batteries	2V x 1,000Ah x 288 cells

#### UNICO International Corporation

Chief Executive Officer	President: Hirotooshi Yokote
Registered address	5-4 Tsukiji 3- chome, Chuo-ku, Tokyo
Main business activities	Consulting services related to overseas Project