

## **ANNEX VI**

### **TO THE AGREEMENT**

### **BETWEEN**

**THE DEPARTMENT OF ENERGY OF THE UNITED STATES OF AMERICA  
AND  
THE MINISTRY OF INDUSTRY, COMMERCE AND HANDICRAFT  
OF THE REPUBLIC OF ITALY**

**IN THE FIELD OF ENERGY RESEARCH AND DEVELOPMENT  
FOR COOPERATION IN THE FIELD OF PHOTOVOLTAIC TECHNOLOGY**

WHEREAS, the department of Energy of the United States of America (hereinafter referred to as "DOE") and the Italian Ministry of Industry, Commerce and Handicraft (hereinafter referred to as "MICA") entered into an Agreement for Cooperation in the field of energy research and development on May 26, 1995 (hereinafter referred to as the "Agreement"); and

WHEREAS, the DOE and MICA (hereinafter referred to as the "Parties") have a mutual interest in collaborating in the field of photovoltaic technology;

The Parties agree to enter into this Annex in accordance with Article IV of the Agreement.

### **ARTICLE I SCOPE**

The parties agree to cooperate in a manner which will facilitate joint activities and pre-commercial deployment of photovoltaic technologies in an environmentally responsible way. Pursuant to Article II of the Agreement, these joint activities may include, but will not be limited to:

- (1) Information exchange on how to reduce manufacturing costs and increase reliability of photovoltaic materials, cells, modules, balance-of-system components, and installed systems.
- (2) Task sharing to include, but not be limited to, exchange of technical personnel, performing collaborative R&D and mutually defined research program tasks on high efficiency single crystal, polycrystalline, and amorphous silicon solar cells. Possible shared tasks would include the investigation of laser assisted and screen printed processes for new cell designs of single and poly-crystalline silicon; and cell processing concepts for amorphous silicon for increased stability, efficiency, ease of manufacture and reduced cost.

- (3) Develop and verify technical guidelines for building integrated and other dispersed photovoltaic systems that can be safely and reliably linked with the electric grid at the lowest possible cost. The systems to be considered will be those connected with the low-voltage grid, which are typically of a size between one and fifty peak kilowatts. Potential subtask areas may include:
- improved architectural design and structural integration considerations for photovoltaic systems in buildings and other structures.
  - technical quality, performance, reliability and safety of structurally integrated photovoltaic systems.
  - analysis of improved economic viability of photovoltaic systems through considerations of manufacturing and product distribution cost reductions, and pricing mechanisms.

## **ARTICLE II**

### **MANAGEMENT**

The Assistant Secretary for Energy Efficiency and Renewable Energy shall be responsible for the programmatic aspects of the Annex for DOE. MICA designates ENEA as the Italian Party responsible for the implementation of this Annex.

Each Party shall designate one Program Coordinator for this Annex; these Program Coordinators shall provide technical management and coordination of the activities under this Annex. Each task undertaken under this Annex shall be covered by a work plan that is approved by both Coordinators, each of whom will designate a Co-Project Officer.

## **ARTICLE III**

### **EXPENSES**

Each Party shall independently bear the costs of its operation under this Annex unless otherwise agreed to in writing.

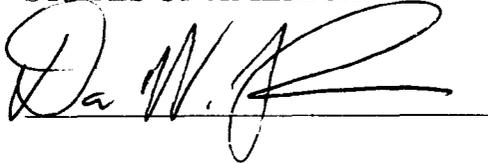
**ARTICLE IV**

**GENERAL PROVISIONS**

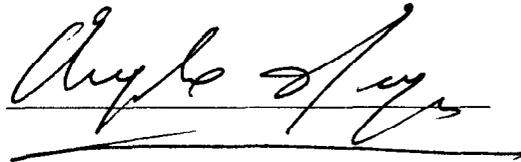
Cooperation under this annex shall be subject to all the provisions of the Agreement, the terms and conditions of which, including Annex 1 (Intellectual Property) and Annex II (Security Obligations), are hereby incorporated by reference.

Done at Washington, D.C., United States of America, this 24th day of March 1998

**FOR THE DEPARTMENT OF  
ENERGY OF THE UNITED  
STATES OF AMERICA**

A handwritten signature in black ink, appearing to be "D. W. F.", written over a horizontal line.

**FOR THE MINISTRY OF INDUSTRY,  
COMMERCE AND HANDICRAFT OF  
THE REPUBLIC OF ITALY**

A handwritten signature in black ink, appearing to be "Angelo S. S.", written over a horizontal line.