

## ANNEX VII

**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 ELECTRIC AND HYBRID VEHICLES**

**WHEREAS**, the Department of Energy of the United States of America (hereafter referred to as “DOE”) and the Ministry of Industry, Commerce and Handicraft of the Republic of Italy (hereafter referred to as “MICA.”), hereinafter referred to as the “Parties”, have entered into an Agreement of Cooperation in the field of energy research and development on May 25, 1995 (hereafter referred to as the “Agreement”);

**WHEREAS**, DOE AND MICA have a mutual interest in exchanging experience and views on the possible development and applications of electric and hybrid vehicles in different sectors, including basic and explorative research and development of complete fuel cell and hybrid vehicle subsystems and novel drivelines, and in pursuing general collaboration in these areas; and

**WHEREAS**, the Parties recognize the importance of the role that electric and hybrid vehicles could play in improving energy diversification and security, reducing dependence on fossil fuels, enhancing environmental protection and expanding market opportunities and integration;

**NOW THEREFORE** 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 facilitates joint activities aimed at evaluating the research needs and market opportunities of electric and hybrid vehicles. The cooperative activities may include, but will not be limited to:

1. Exchange of information about national programs to acquaint program planners with ongoing research activities in each country and collaboration opportunities;
  - o Produce and exchange, on a yearly basis, public Summary Reports on main Government/National programs on related topics;

- o Annual consultations by program managers to allow joint planning and evaluation of suitable topics for cooperative activities. Preferences will be given to general aspects of explorative R&D of mutual interest aimed at supporting both national programs. Technical and economic data, of non classified nature and not covered in the International Energy Agency multilateral agreements, will be exchanged regarding fuel cells for transportation, advanced drive trains and subsystems, and other related technologies.
- 2. Joint technical evaluation of ongoing demonstration activities related to specific applications.
  - o Demonstration activities of similar nature will be identified and selected. A comparative analysis will then be jointly carried out to determine the pros and cons and technology potential under different traffic conditions.
- 3. Definition and execution of joint testing and/or demonstration projects on specific technologies under different conditions for which tasks and costs are shared; e.g. fuel cell subsystems in cold and warm climates when operated on urban and suburban cycles.
  - o Based on experience gained through joint evaluation of demonstration projects, a joint planning of representative demonstrations and/or bench testing will be negotiated including the sharing of tasks and costs.
- 4. Consultations on testing procedures for components and subsystems:
  - o Testing facilities of selected national organizations can be used to perform preliminary evaluations and comparative assessments of testing procedures for components and subsystems.
  - o Researchers from national laboratories may be exchanged in support of cooperative activities on test procedures and equipment.
- 5. Joint projects on modeling and simulation of components and subsystems in order to optimize performance and develop novel monitoring devices:
  - o An inventory of computer codes for components and subsystems in different configurations, available at national laboratories and academic institutions, will be jointly developed and evaluated.
  - o Computer codes will be jointly evaluated to identify the information necessary for a joint development of models and computer codes which are suitable for applications worldwide.
- 6. Organization of periodic workshops involving industries, universities, and government institutions on topics such as testing procedures, data evaluation, common data base, and non-technical measures to assist market introduction.

## **ARTICLE II**

### **MANAGEMENT**

For DOE the Assistant Secretary for Energy Efficiency and Renewable Energy will be responsible for the programmatic aspects of the Annex. For MICA ENEA will be the Party responsible for the implementation of this Annex.

Each Party will designate one Program Coordinator for this Annex. These Program Coordinators will provide technical management and coordination of the activities under this Annex. Each task undertaken under this Annex will 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 will independently bear the costs of its operation under this Annex unless otherwise agreed to in writing. It is understood that each Party will carry out its objectives subject to the availability of appropriated funds.

## **ARTICLE IV**

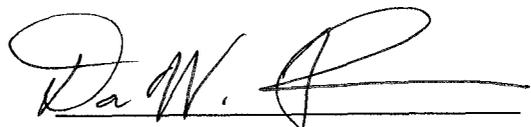
### **GENERAL PROVISIONS**

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.

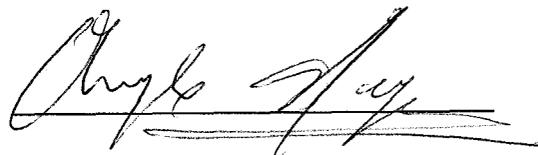
This Annex will enter into effect upon signature and will remain in force for five years or until the Agreement expires, whichever is sooner.

Done at Washington/Rome , this 10<sup>th</sup> day of July 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**

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