

Network of Energy Sources (CONACyT - Mexico)

Claudio A. Estrada

Universidad Nacional Autónoma de México

Yasuhiro Matsumoto

Centro de Investigaciones y Estudios
Avanzados del IPN

ALCUE NET meeting, October 24th, CONACyT, Mexico City



Outline:



- Background
- General lines of action
- Objectives
- Thematic lines
- Structure

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Background:



- In late 2006, CONACYT issued a call to the Scientific and technology community in the country for the proposals of “Megaprojects (\$1,000 M)”
- From a total of approximately 800 pre-proposals, in a first stage, about 80 proposals were approved
- In each of the above selected proposals are allocated resources to develop full proposals, which are being submitted for assessment in a second stage
- However, the second phase of this process is not carried out , mainly due to budget constraints

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Background:



- CONACYT decided to take this organizing process to integrate a set of thematic networks. So proposals that passed the first phase were grouped according to their 14 thematic networks. One of these thematic networks is Energy Sources (RedFE)
- During the course of 2008, CONACYT formalized the legal framework to organize these networks

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General lines of action:



- Energy resources (with emphasis on renewable)
- Collaboration and competition between actors
- Mobility
- Creating consensus

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Objectives:



- The network promotes, from collaborative activities among its members, the interaction on specific topics of energy
- CONACYT provides financial support for the interaction

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Objectives:



Specific tasks are defined as follows:

1. Analysis, diagnostics of the "state of the art", the challenges and opportunities in Mexico , the subject of the Network
2. A catalog of human resources, training programs on human resources and infrastructure in Mexico
3. Analysis of multi-institutional projects in applied science of national interest with viability
4. Design and implementation of projects in applied science and technology development that can link the public and private sectors, looking for funding from domestic and foreign sources. Priority is given to projects that allow executable schemes and consider the solution of real problems of Mexican society
5. Design a national program for the development of scientific and technological research in the field



Thematic lines:



1. Solar thermal high temperature
2. Solar thermal low temperature
3. Solar photovoltaics
4. Bio-ethanol
5. Bio-diesel
6. Gaseous Biofuels
7. Hydrogen
8. Wind Energy
9. Energy Policy

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Structure:



- About 230 RedFE members organized in 9 areas, from academic and private sectors
- Technical committee
- 1 Annual congress
- 2 National Laboratories:



LACYQS
Laboratorio Nacional de Sistemas
de Concentración Solar y Química Solar



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FUENTES DE ENERGÍA

VECTORES

POLÍTICAS

LABORATORIOS

LEGISLACIÓN

CONVOCATORIAS

You are here: Home ► Políticas

Políticas

POLÍTICAS ENERGÉTICAS

Integrantes

Líneas de investigación

Thank you for your attention !

<http://www.redfe.org.mx/es/index.php/fuentes-de-energia>

Contact person: Yasuhiro Matsumoto Kuwahara
<ymatsumo@cinvestav.mx>





Proyecto Laboratorio Nacional de Sistemas de Concentración Solar y Química Solar. LACYQS. México



Centro de Investigación en Energía, UNAM



LACYQS

Laboratorio Nacional de Sistemas de Concentración Solar y Química Solar



CENTRO DE INVESTIGACIÓN EN MATEMÁTICAS, A.C.



Ciemat
Centro de Investigaciones Energéticas, Medioambientales y Tecnológicas



Proyecto a 3 años, inicio sep del 2007 – termina Diciembre 2010. $\approx$ 43 M\$



Subproyecto: Horno Solar de Alto Flujo Radiativo. Temixco, Morelos

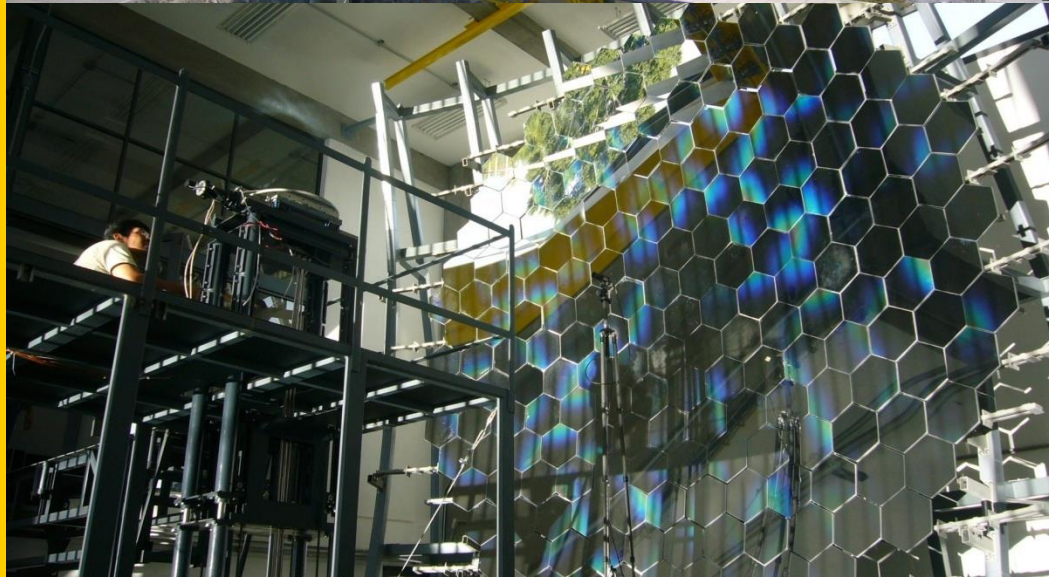


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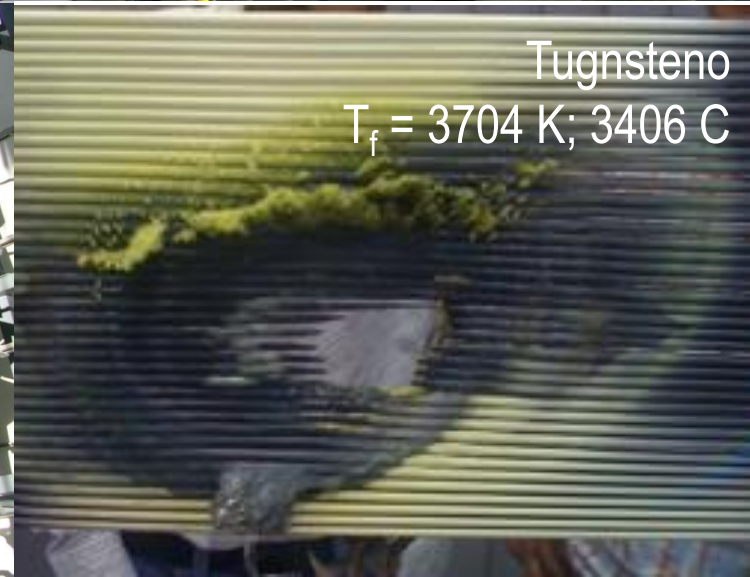
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Acero al carbón
 $T_f = 1808 \text{ K}; 1535 \text{ C}$



Tungsteno
 $T_f = 3704 \text{ K}; 3406 \text{ C}$





Sub-proyecto Campo de Pruebas de Helióstatos CPH. Hermosillo, Sonora



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- Torre de 33 m de alto
- Blanco lambertiano de 36 m²
- 15 heliostatos en operación de 36 m²
- 82 heliostatos de 36 m²: 2MWt

