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“Appealing to renewable energies and sustainable development: a possible alternative”



Training Centre for Operation and Maintenance in Renewable Energies



**IV Latinamerican Congress
Eolic Energy**

**June 5th, 2018
Montevideo, Uruguay**



Project :
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CURRENT
SITUATION

- Between 2008 and 2017 in Uruguay were set up 37 eolic parks , solar PV facilities and biomass energy with a total power capacity estimated of 2,2 GW.
- Uruguayan legislation requires a minimum of 20% of national capital investment for supported new investments.
- It also requires a minimum participation of 80% of local workers for operation and maintenance activities.



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REGIONAL SITUATION

- In Latin America only Brazil has a training centre for gas and renewable energies (www.ctgas.com.br) in Natal.
- In the region there are very few technicians for operation and maintenance in renewable energies without specific centres. Enterprises must train their technicians abroad or hire international workers.
- In 2016 UTEC started the career in Renewable Energies Engineering (5 years) in Durazno city, Uruguay.



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Justification	The necessity to have a reference centre for training, research and public-private cooperation regarding renewable energies.
Objectives	a) Develop a training offer adapted to the national needs from the renewable energy sector and associated services; b) Build up a technological applied centre for O&M , directly related to private enterprises and labour promotion; c) Promote cooperation and technology transfer between public and private institutions.
Population	URUGUAY and latin american region.
Activities	A-1: Infrastructures; A-2: Equipments; A-3: Training; A-4: Research, and A-5: Technology transfer.
Budget (2018-2020)	US\$ 4:161.000
Counterparts	<u>US\$ 2:771.500</u>



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Infrastructure
requirements

Construction of the Centre and annexes:

Main building
400m², learning
tower, workshops,
laboratories, etc.

Local
counterpart:

Land,
acomodation
facilities.





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Equipments
facilities

Equipments:

Learning tower,
cranes, turbines
of practice,
Furnitures,
Other equipm.



Operatives services:

Accomodation
services, toilets,
multipurpose
room, offices, etc.





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Teaching
activities

Teaching:

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Staff
Professionals
contracted
Professionals
collaborators
Assistants
Associated
technicians

Total annual staff:
(12 - Eolic)



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Cooperation
(OTRI)



OTRI:
Office for
Transfer of
Research
Resources

(5) Project
assistants
Equipments,
facilities and
supplies





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NEXT
STEPS

June 2018:

- 4° Latinamerican Congress on Renewable Energies
- Framework Cooperation Agreement with organisations
- Main donors for infrastructures
- Necessities from national enterprises

July-August 2018:

- Necessities from national enterprises: data analysis
- Joint ventures with organisations CEFOMER: administration
- Courses and services

September 2018:

- National Workshop on O&M in Eolics
- Preparation and promotion of initial courses

October 2018:

- Courses: I Edition Course Technician of Wind Farm Maintenance; Basic Safety Work: Prevention of Labor Risks; GWO certificate.



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June 5th, 2018
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Uruguay



Thank you
very much!

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