NS-7 - Promotion of renewable energy participation in the Uruguayan primary energy mix

Uruguay

NAMA for Recognition

A.1 Party	Uruguay
A.2 Title of Mitigation Action	Promotion of renewable energy participation in the Uruguayan primary energy mix
A.2 Title of Mitigation Action A.3 Description of mitigation action	Promotion of renewable energy participation in the Uruguayan primary energy mix Several measures promoted by the Uruguayan State will enable reach the objectives and goals established in the Energy Policy, particularly the minimum 50% of the energy supply mix supported by renewable sources by 2015. Some of these measures are detailed below. BIOFUELS: the Law 18.195 (2007) promotes and regulates the production, sale and use of biofuels, entrusting to the National Oil Company (ANCAP) the mixture of ethanol (a minimum of 5% from December 31, 2014 on) with gasoline and biodiesel (minimum of 5% since January 1, 2012) with gas oil. This process of production and mixing of biofuels was initiated by the company Alcohols Uruguay (ALUR) (an ANCAP's company), fostering the development of agro-industrial chains. BIOMASS: eight plants are installed in the country up to 2012, totaling 250MW of installed power, using forestry residues, rice, bagasse and black liquor as fuel. Decree 367/010, enables the Public Electric Utility (UTE) to hold special contracts with suppliers to purchase electricity from these sources. Since 2010 the project "Production of Electricity from Biomass in Uruguay" (PROBIO) URU/10/G31 is being developed, focusing on the analysis of political and information barriers to decentralized power generation connected to the network. WIND: in 2007 a "Wind Energy Program in Uruguay" (PEEU) URU/07/G31 was initiated in order to promote the development of wind energy in the country. Together with the National University, this program developed the national wind map, and with UTE it promoted competitive procedures for the installed, while other 20MW are part of the Emanuelle Cambilargiu wind complex (owned by UTE), totaling the 43MW installed in the country up to date. The main impulse to wind
	energy was a series of three subsequent competitive procedures (Decrees 409/009, 159/011 and 424/011), in which 880MW were awarded to private investors. Most of these wind farms will begin operation prior to 2015, and will be located in different
	regions of the country. In turn, UTE expects the installation of 71MW through operating leases and 180MW through projects in conjunction with Eletrobras. SOLAR: in Uruguay, Solar Thermal Power (STP) and photovoltaics (PV) are being promoted, the first one showing greater development due to aspects related to

	technology and costs. The introd through multiple policy instrume Solar Power (2009) and its imple 012 of Solar Plan creation and m Decree 34151/2012 which regula and heated pools. The Solar Plan utilization of STP for residential affordable loans and discounts or solar PV energy, two pilot plants installed in the departments of Sa introduce this source in the natio Additionally, a competitive proce private solar PV plants is planned November 2012 the Secretary of presenting relevant information t developers, to promote the instal capacity. TAX BENEFITS FOR Law 16.906 on the Promotion an provides a general framework of country. Decrees 02/2012 and 35 to obtain tax benefits (Consumpt for renewable energy projects. Fu promotes a series of activities, in from non-traditional renewable s of machinery and equipment bout activities.	uction of the STP was promoted nts, including the Law 18.585 of ementing regulations, Decree 50/ unicipal regulations, such as ites its utilization in buildings , launched in 2012, promotes the water heating through in the electric bill. Regarding of 500kWp each, will be alto and Lavalleja, in order to nal grid by year 2014. edure for the installation of d for the short term. In Energy hold a data room o organizations and private lation of a maximum 6MW PV RENEWABLE ENERGY: the d Protection of Investments, incentives for investment in the 4/009 establish the requirements ion, Rent and Heritage taxes), arthermore, Decree 354/009 cluding electricity generation ources and local manufacturing nd for these and other related
A.4 Sector	X Energy supply X Residential and Commercial buildings X Agriculture X Waste management	X Transport and its Infrastructure X Industry X Forestry
	Other	
A.5 Technology	X BioenergyEnergy EfficiencyX HydropowerX Wind EnergyCarbon Capture and StorageLand fill gas collection	X Cleaner fuels Geothermal X Solar Energy Ocean Energy Low till / No till
	Other	
A.6 Type of action	X National/ Sectoral goal Strategy X National/Sectoral policy or program	Project: Investment in machinery X Project: Investment in infrastructure Project : other
	Other	
A.7 Greenhouse gases covered by the action	XCO2 N2O PFCs	CH4 HFCs SF6
	Other	

B National	IImn	lementing	Entity	J
Divational	i imp	lonnonting	LILL	1

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B.1.10 Address B.1.11 Dhone	
D.1.11 Filolie	
D.1.12 Elliali P.1.13 Comments	
C Expected timetrame for	the implementation of the mitigation action
C.1 Number of years for	completion 10
C.2 Expected start year	D Currency
D 1 Used Currency	
D.1 Used Currency	AED
	Conversion to USD: 1
	E Cost
E.1.1 Estimated full cost of preparation	
E.1.2 Comments on estimated full cost of	
preparation	
E.2.1 Estimated full cost of implementation	
E.2.2 Comments on estimated full cost of	Estimated full costs of implementation presented here only
implementation	consider the budgets of "Wind Energy Program in Uruguay"
	and "Production of Electricity from Biomass in Uruguay"
F 3 1 Estimated incremental cost of implementati	project.
E.3.1 Estimated incremental cost of implemental	f
implementation	L
F Estin	nated emission reductions
F.1 Amount	5.20
F.2 Unit	MtCO2e/yr
F 3 Additional information (e.g. if available)	The amount of emission reduction presented (5.20
information on the methodological approach	MtCO2)corresponds to 2015, due to the increased use of
followed)	renewable energy related to 2005. In order to estimate GHG
	reduction, the projected matrix of supply energy for 2015 was
	considered. It is estimated that in 2015, the 55% of energy would
	be supplied by renewable power, specifically through wind (4%),
	hydro power (11%), biomass (28%), wood (12%) and solar $(<10/)$. The participation of prepayable sources in 2005 was 270/
	(<1%). The participation of renewable sources in 2005 was 37%
	calculate the amount of CO2 that would have been emitted in the
	year 2015, if the increased level of renewable energy (between
	2005 and 2015) would have been supplied by fossil fuel. For
	electric generation, the emissions were calculated considering the
	use of fuel oil.

G Other indicators				
G.1 Other indicators of implementation	The number of years for completion is the time remaining to 2015 from current date.			
H Other relevant information				
H.1 Other relevant information including co- benefits for local sustainable developmen	This increase in the share of renewable sources in the primary energy mix, along with the benefits of reducing GHG emissions, will enable distributed power generation, increment energy independence, and alson promote national value-added			
I Relevant National Policies strategies, plans and programmes and/or other mitigation action				
I.1 Relevant National Policies	Energy Policy: http://www.miem.gub.uy/gxpsites/ hgxpp001?5,6,584,O,S,0,, "Wind Energy Program in Uruguay" (PEEU): http://www.energiaeolica.gub.uy/ "Solar Energy Program in Uruguay": http://www.energiasolar.gub.uy/cms/			
I.2 Link to other NAMAs				
J Attachments				
J Attachments	Title Description			
J.1Attachment descriptionJ.2File	Browse			