

Dominican Republic Biogas Update of the Global Methane Initiative (GMI)

Global Methane Forum
Washington, DC, USA

29 March 2016

National Council for Climate Change and CDM



Presidencia de la República Dominicana

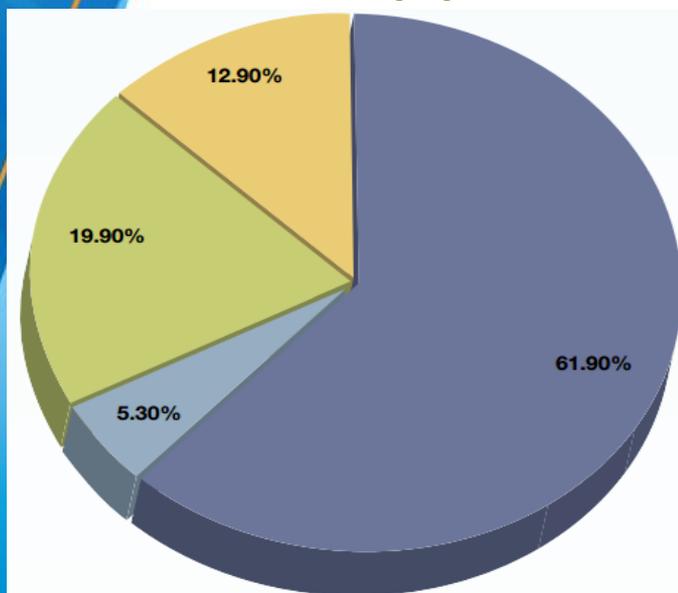
Consejo Nacional para el Cambio Climático
y el Mecanismo de Desarrollo Limpio



Dominican Republic Biogas Update

- New trends in the biogas sector

GHG emission by sector
2010



- Energy (61.90%)
- IPPU (5.30%)
- Agriculture (19.90%)
- Waste (12.90%)

Time series - Giga grams of CO2 equivalent

Time series by sector	1st NC		2nd NC		3rd NC
	1990	1994	1998	2000	2010
Energía	8469.3	14788.78	15868.81	18090.66	21138.54
Procesos industriales	541.1	643.8	1045.7	811.06	1803.45
Agricultura	2280.12	2489.1	5211.49	5701.1	6812.21
Uso de suelo y silvicultura	-5555.99	-6504.22	No se incluyó	-18794.1	-3100.64
Residuos	1305.78	2519.37	1615.59	1673.36	4390.53

*Las series no han sido reconstruidas

1st NC

2nd NC

3rd NC



Dominican Republic Biogas Update

Trends in the energy sector

- Diversification of the matrix with renewable (**projects in 2015**):

Technology	Installed Capacity
Wind	50 MW
Solar	30 MW
Biomass	30 MW

Other 620 MW for RE
Approved by the presidency



Dominican Republic Biogas Update

Implementation of national plans

❖ Climate Change Compatible Plan – National Development Strategy (2010-2030). Reduce de GHG emission to 25% by 2030

Specific project updates

- Implementation of the CCDP in the cement and waste sectors.

ZACK Project: Cement (Zement) Waste (Abfall) Co-Processing (Co-Processing) Climate (Klima)

<https://www.giz.de/en/worldwide/37022.html>

NCC&CDM and other state institutions receive training on planning, financing, monitoring and communication mechanisms

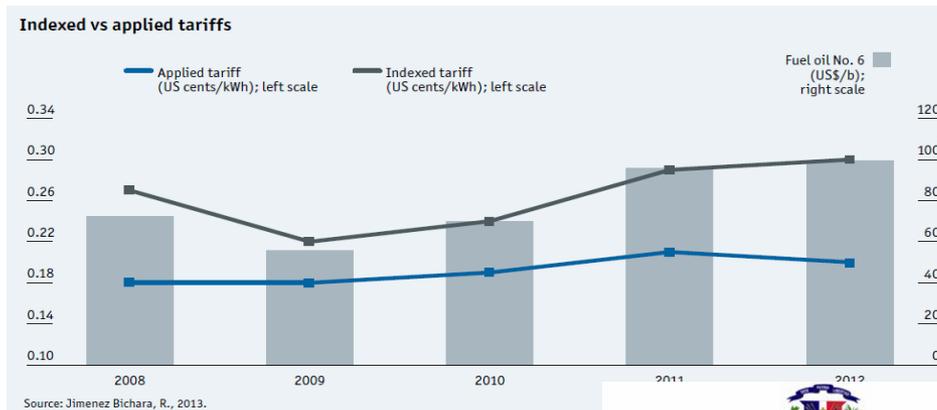
A legal framework and an administrative procedure that cover the use of waste as an energy source.

Models for inclusive supply chains of alternative fuels and raw materials to be used in the production of cement from municipal and industrial waste.



Biogas Project Outlook

- **Challenges to emission reduction projects in Dominican Republic:**
 - ***Non-rationalized energy prices***
- ❖ Although the electricity generation matrix has evolved, it is still predominantly hydrocarbons-based and therefore vulnerable to volatility in commodity prices.
 - High operational costs and deficits
 - Ineffective tariff scheme and cross subsidies across consumer segments
 - Elevated public subsidies to the sector



Biogas Project Outlook

Prepare for opportunity

Some diversification in the energy matrix is required in order to reduce oil-fired generation to its appropriate role as peak or emergency generation.

Recommendations to diversify the electricity matrix include:

Develop a strong strategic and financial plan with regards to the energy mix

Expand incentives for developing renewable sources, including wind and hydro power

Improving energy efficiency and conservation is contingent upon network rehabilitation and improved asset management.

Continue and expand existing energy-efficiency initiatives

Review likely demand and the need for new capacity in the regulated market from 2016 onwards



Big opportunity for Biogas Projects



Biogas Project Outlook (2)

Approaches to overcoming challenges

– *Legislation and regulation*

- ❖ Bill of Law on Solid Waste & Co-processing in the Dominican Republic – in the Legislative Chambers for its approval in the coming months is expected.

– *Policies and incentives*

- ❖ Policy for the Integrated Management of Municipal Solid Waste – 2014.

<http://www.ambiente.gob.do/ambienterd/wp-content/uploads/2015/10/Politica-Residuos-Solidos-Municipales.pdf>

- *Capacity building, Technology transfer & Training and workshops*

- ❖ Project 'Strengthening Institutional Capacity in the Integrated Solid Waste Management' (FOCIMiRS by its acronym in Spanish).

<http://www.ambiente.gob.do/ambienterd/proyectos/fortalecimiento-de-la-capacidad-institucional-en-el-manejo-integral-de-los-residuos-solidos/>

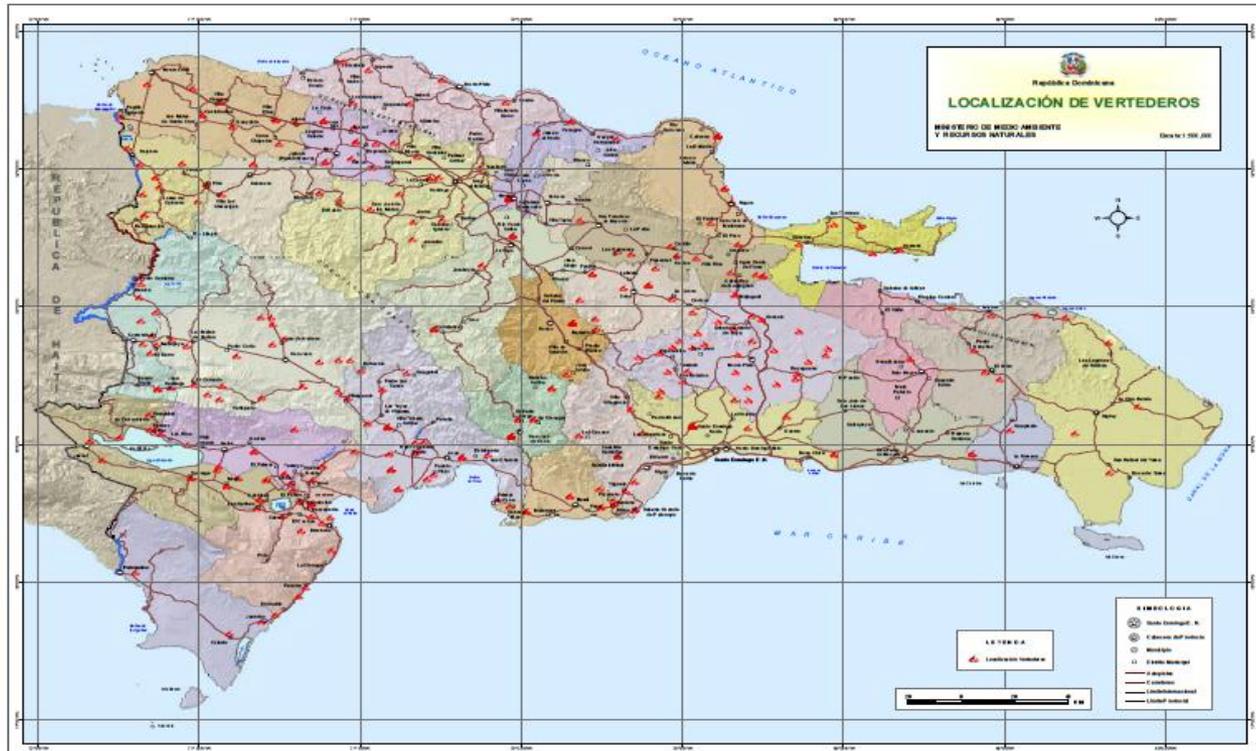
- ❖ Implementation of the Climate Change Development Plan in Cement & Solid Waste sectors (Cement & Waste NAMA - 2014-2018).

<https://www.giz.de/en/worldwide/37022.html>



Biogas Project Outlook (2)

■ Approaches to overcoming challenges



Biogas Project Outlook (2)

Anticipated or planned projects

Sanitation pilot projects of 5 municipalities

Financing: Government of France (73%)
Government of Dominican Republic (27%)



GRANDS PROJETS



PROJECT DESCRIPTION

Design and construction of sewerage networks in 5 provinces to benefit a population of **309 000** inhabitants. Until 2038

Monte Cristi



	Redes Nuevas	Plantas de Tratamiento	Población conectada
Monte Cristi	78,8 km	2u	23 614 hab
Villa Vásquez	34,6 km	1u	16 658 hab
Azua	101,1 km	2u	75 835 hab
San Cristobal	86,9 km	1u	148 509 hab
San Jose de Ocoa	17,4 km	1u	19 335 hab
Neyba	33,2 km	1u	25 228 hab

MAIN FIGURES

- 352 km of new networks
- 16 pumping stations
- 8 treatment plants

<http://www.inapa.gob.do/index.php/2014-12-05-19-39-27/proyecto-5-municipios>



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Biogas Project Outlook (2)

Anticipated or planned projects



Dominican Republic

NAMA seeking support for preparation

 Export to Excel	
<u>Id</u>	<u>Title</u>
Search...	Search...
NS-189	Blue Carbon NAMA: Conserve and Restore Mangroves in the Dominican Republic

NAMA seeking support for implementation

 Export to Excel	
<u>Id</u>	<u>Title</u>
Search...	Search...
NS-51	Tourism and Waste in the Dominican Republic
NS-52	NAMA in Cement/Co-Processing and Waste Sector
NS-118	Energy Efficiency in Public Sector
NS-149	Reducing Greenhouse Gases (GHG) Emissions in Pig Farms in the Dominican Republic

Biogas Project Outlook (2)

Others NAMAs...

Coffee NAMA



Cocoa NAMA



Rice NAMA



Contact Information and Announcements

Thanks for your attention!

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