

## Curriculum Vitae Liliana Gamba

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Name : **Gamba, Liliana**  
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Date of Birth : August, 28, 1972  
Nationality : Colombian

### KEY QUALIFICATIONS

1. Senior expert in the development and practical implementation of sustainability policies and strategies in different sectors, including electricity generation, biomass based materials and fuels, waste management and services.
2. Hands-on experience in assessing the sustainability impacts of policies, supply chains and individual projects; identify options to improve sustainability performance and manage potential risks; develop implement and review sustainability monitoring, reporting and verification systems.
3. Experienced in policy and market assessments and barriers analysis for sustainable technologies, sustainability aspects of low carbon and adaptation strategies.
4. Long track record leading and advising a large number of projects for clients in Europe, Latin America and Asia, including governments, international organizations and financial institutions.
5. Skilled at managing complex, multi-discipline projects.
6. Outstanding reporting and presentation skills. Excellent interpersonal skills.
7. Fluent in English, German and Spanish

### EDUCATION

*1989 -1995* Chemical Engineering, University of America. Bogotá, Colombia  
*1995-1997* Master of Science in Civil Engineering, Major in Environmental Engineering, Los Andes University. Bogotá, Colombia  
*2004 - 2008* PhD in Environmental Engineering, Institute of Environmental Technology - Berlin University of Technology. Berlin, Germany

### OTHER TRAINING

*2000-2001* Advanced training program on Environmental Management Instruments. German Federal Ministry for Economic Cooperation and Development. Carl Duisberg Society, Germany.

*2002* Strategies on Climate Change and Development of National Inventories. Japan International Cooperation Agency, Japan.

*2006* Effective negotiation, rhetoric and presentation techniques, solution-oriented conflict management, time- and self-management and success strategies in networking. Course of lectures for women doctoral candidates, TU Berlin, Germany.

*2009* Project management. Twynstra Gudde. Utrecht, the Netherlands.

- 2010 Business communication strategies -Pyramid principle-. Capgemini. Utrecht, the Netherlands.
- 2012 Influencing skills and consultative selling. The Next Level. Utrecht, the Netherlands.
- 2015 Review of National Communications and Biennial Reports: General and cross-cutting aspects of the review of National Communications and Biennial Reports; Technical review of targets and of policies and measures, their effects and their contribution to achieving those targets; Technical review of GHG emissions, emission trends, projections and the total effect of policies and measures. UNFCCC, online training courses.

## LANGUAGES

Spanish	Mother tongue
English	Fluent
German	Fluent

## WORK EXPERIENCE

2016 – present SQ Consult, Germany

### **Senior associate**

Strategic advice and project management in the areas of sustainable production and consumption; climate negotiations and climate finance; and climate and energy policies.

2013 - present Liliana Gamba Consultancy, South America and Germany

### **Owner**

- **Project management.** Managing complex, multidisciplinary research and consultancy projects.
- **Consultancy.** Development and practical implementation of sustainability policies and strategies in different sectors, including electricity generation, biomass based materials and fuels and waste management. Services include formulating sustainability criteria and indicators; assessing the sustainability impacts of policies, supply chains and individual projects; and sustainability risk management. Designing climate mitigation and adaptation strategies. Development and assessment of sustainable technologies policies and market conditions.

### *Assignments:*

1. Supporting the company NCh-Innova in the development of its business in Colombia in the fields of climate change and sustainable energy. 2015-2016
2. Preparation of the NAMA (Nationally Appropriate Mitigation Action) document of the Argentinean Bioenergy Promotion Program (PROBIOMASA), an initiative of the Argentinean Federal Secretariats of Agriculture, Livestock and Fishery and of Energy. The assignment involved a critical review of sustainable biomass potential estimations, the identification of technical barriers to sustainable bioenergy projects, the formulation of sustainability criteria for the selection of bioenergy projects for the purposes of the NAMA and the coordination of the pre-feasibility assessment of two potentially eligible projects. Project funded by the Latin American Development Bank (CAF) and coordinated by Ecofys. 2014-2015

3. Providing advice on biomass sustainability aspects to the project "Sustainable energy production from biomass wastes in Peru" coordinated by NewClimate Institut and Ecofys under the MitigationMomentum initiative of the German government. 2015

2008 - 2013      Ecofys Germany GmbH, Cologne and Berlin, Germany

**Consultant**

- Strategic advice in the field of sustainability of biofuels and bioenergy, bioeconomy and renewable energy to a wide range of clients including governments, international organisations, companies and industry associations.
- Sustainable biomass potential assessments.
- Renewable energy policy and market assessments.
- Formulation of low carbon and adaptation strategies.

*Selectec assignments*

1. Lessons learned in testing the Global Bio-Energy Partnership (GBEP) sustainability indicators for bioenergy in five countries (Colombia, Indonesia, Ghana, the Netherlands and Germany). Client: Dutch Government (NL Agency). 2013
2. Ensuring sustainability of biobased chemicals and polymers. Project carried out within the framework of the Green Deal between the Dutch Government, the Dutch rubber and polymer organisation (NRK), Plastics Europe and the chemical company SABIC. Client: NL Agency. 2013
3. Low ILUC potential of wastes and residues for biofuels: Assessing the low ILUC potential of used cooking oils (UCO) in Spain and Argentina. Clients: German Federal Ministry of Environment, Nature Conservation and Nuclear Security (BMU); German Federal Environment Agency (UBA); German Renewable Raw Materials Agency (FNR); Dutch Ministry of Infrastructure and Environment (NL Agency); Danish Energy Agency (DEA). 2013.
4. SustainGas. Enhancing sustainable biogas production in organic farming. Client: Intelligent Energy Europe. 2012-2013
5. Fact check on biofuel subsidies. Client: German Biofuel Association (VDB). 2013.
6. Support Activities for the Development of Practical Measures to Facilitate the Implementation of the Biofuels Sustainability Scheme. Client: European Commission DG Energy. 2010-2013
7. Sustainability aspects of renewable energy supply chains. Client: European utility. 2011-2012
8. Sustainability indicators and implementation of internal process for Vattenfall's sourcing of biomass. Vattenfall. 2011-2012
9. Supporting Spanish Sustainability System for the European Renewable Energy Directive. Client: Asociación de Productores de Energías Renovables (APPA) – Sección Biocarburantes. 2011-2012
10. Quick Market Assessment of the Potential for non-solar Off-grid Renewable Energy Projects. Client: KfW and Indian National Bank for Rural Development (NABARD). 2012
11. Quality Assurance and Control for Colombian Biofuels. Client: Colombian Ministry of Mining and Energy, financed by the Inter American Development Bank. 2011-2012
12. Sustainable biomass identification mission in Colombia. Client: Dutch Government (NL Agency). 2011
13. Global GIS-based inventory of renewable energy resources in high spatial and temporal resolution –Section Bioenergy-. Client: German Federal Environment Agency. 2009-2011

14. Support Activities for the Development of Practical Measures to Facilitate the Implementation of the Biofuels Sustainability Scheme – Coordinator Tasks on highly biodiverse grasslands, degraded land, high biodiversity value and carbon stocks. European Commission. 2010
15. Supporting the evaluation of biomass projects in India. Indian Renewable Energy Development Agency (IREDA) and German Development Bank (KfW). 2010
16. Land and water foot print of soy based food products. Client: Alpro. 2009
17. Mapping Climate Assurance Systems & Potential Pathways for their Integration into Standards Systems. Client: GIZ (former GTZ) – ISEAL. 2010
18. Export Handbuch Biogas. Biogas policy and markets in several countries. Client: Deutsche Energie Agentur. 2009
19. Assessment of non-economic barriers to the development of renewable electricity: Biomass in Indonesia and Thailand. Client: IEA. 2009
20. Reducción de emisiones de CO<sub>2</sub> de los sectores difusos en Espana. Client: WWF Spain. 2009
21. Assessment of Colombian sustainability standards for biofuels. Client: Dutch Embassy in Bogotá. 2008

***Sustainability officer (2012-2013)***

Development of Ecofys's sustainability strategy and performance indicators. Preparing sustainability report. Set up process for verification of sustainability goals.

2004 – 2008 Department of Environmental Technology - Berlin University of Technology, Germany

***Researcher Sustainable Engineering (former Environmental Technology Systems)***

Development of a dynamic model for the estimation of sustainable energy biomass potentials at the regional level.

2007 Öko-Institut e.V. Darmstadt, Germany

***External advisor - Division Energy and Climate Protection***

- Providing recommendations on the formulation of sustainability standards for bioenergy crops, based on available experiences on environmental issues of the oil palm cultivation in South America. Focus on biodiversity and soil protection.
- Analyzing methodological issues of the implementation of sustainability standards for bioenergy.

1998 - 2004 Institute of Hydrology, Meteorology and Environmental Studies, Colombia

***Researcher at different departments***

- Interim coordinator of Colombia second National Communication to the UNFCCC.
- Coordination of an inter-institutional working group for the consolidation of the module of "Solid Waste Management" of the Colombian greenhouse gas emission inventory.
- Providing advice to the Ministry of Environment on technical and methodological issues for the consolidation of the Colombian Sustainability Indicators System.
- Building and implementing a national environmental information system in consensus with the Colombian energy and manufacture industry.

1998 Geoingeniería Ltda. (Consulting Engineers), Colombia

***Project engineer***

Environmental assessments for projects in the oil and chemical industry.

1997 - 1998 Salgado, Meléndez y Asociados (Consulting Engineers), Colombia

**Environmental inspector**

Overseeing the implementation of the environmental management plan of the construction and commissioning of a power plant.

1995 – 1997 Ambiotec Ltda. (Consulting Engineers), Colombia

**Project engineer**

Environmental impact assessments of natural gas transportation and power generation projects.

**SELECTED PUBLICATIONS**

*Consultancy reports*

1. NL Agency. "Lessons learned in testing the Global Bio-Energy Partnership (GBEP) sustainability indicators."  
[http://www.rvo.nl/sites/default/files/2013/12/Ecofys\\_2013\\_Lessons%20learned%20GBEP%20sustainability%20indicators\\_v2.pdf](http://www.rvo.nl/sites/default/files/2013/12/Ecofys_2013_Lessons%20learned%20GBEP%20sustainability%20indicators_v2.pdf)
2. NL Agency. "Ensuring sustainability of biobased chemicals and polymers"
3. BMU, FNR, NL Agency, "Low ILUC potential of wastes and residues for biofuels: Assessing the low ILUC potential of used cooking oils (UCO) in Argentina." <http://www.rijksoverheid.nl/documenten-en-publicaties/rapporten/2013/09/06/low-iluc-potential-of-wastes-and-residues-for-biofuels.html>
4. European Commission. "Inventory of data sources and methodologies to help identify land status". EU sustainability criteria for biofuels and bioliquids.  
[http://ec.europa.eu/energy/sites/ener/files/2011\\_bsc\\_inventory\\_of\\_data\\_\\_sources\\_and\\_methodologies.pdf](http://ec.europa.eu/energy/sites/ener/files/2011_bsc_inventory_of_data__sources_and_methodologies.pdf)
5. Intelligent Energy Europe. "SUSTAINGAS: Sustainability performance of organic biogas plants."  
[http://sustaingas.eu/fileadmin/sustaingas/images/Report\\_on\\_analysis\\_of\\_sustainability\\_performance\\_for\\_organic\\_biogas\\_plants-new.pdf](http://sustaingas.eu/fileadmin/sustaingas/images/Report_on_analysis_of_sustainability_performance_for_organic_biogas_plants-new.pdf)
6. Intelligent Energy Europe. "SUSTAINGAS: Development of recommendations and strategies to stakeholders".  
[http://sustaingas.eu/fileadmin/sustaingas/images/Sustaingas\\_Sustainability\\_of\\_biogas\\_in\\_organic\\_farms\\_\\_Lessons\\_learned\\_and\\_recommendations.pdf](http://sustaingas.eu/fileadmin/sustaingas/images/Sustaingas_Sustainability_of_biogas_in_organic_farms__Lessons_learned_and_recommendations.pdf)
7. NL Agency. "Sustainable biomass identification mission in Colombia". Final report.
8. Colombian Ministry of Energy and Mining, Inter-American Development Bank. "Estructuración de un Programa de Aseguramiento y Control de la Calidad (QA/QC) de los Biocombustibles y sus Mezclas con Combustibles Fósiles en Colombia con Proyección hacia los Mercados Internacionales"
9. International Energy Agency. "Assessment of non-economic barriers to the development of renewable electricity in Asia."  
[http://www.iea.org/publications/freepublications/publication/Renew\\_SEAsia.pdf](http://www.iea.org/publications/freepublications/publication/Renew_SEAsia.pdf)
10. ISEAL, GIZ. "Mapping Climate Assurance Systems: Final report".  
<http://www.isealalliance.org/sites/default/files/Accounting%20for%20Carbon%20-%20Draft%20Final%20Report%202.pdf>
11. WWF Espana. Reducción de emisiones de CO<sub>2</sub> de los sectores difusos en Espana.  
[http://awsassets.wwf.es/downloads/espana\\_hacia\\_copenhague.pdf](http://awsassets.wwf.es/downloads/espana_hacia_copenhague.pdf)

*Scientific publications and studies*

1. Gamba, L. A sustainable biomass use model: first development. Dissertation. Institute for Environmental Technology. Berlin University of Technology. Berlin: TU Berlin, 2008

2. Gamba, L (Co-author). Principales procesos de transformación del territorio: Perfil del estado de los recursos nacionales y el medio ambiente en Colombia 2001. Sistema de Información Ambiental de Colombia. Bogotá: IDEAM, 2002
3. Gamba, L. (Co-author): Indicadores Generación de Residuos Sólidos y Sostenibilidad de Procesos Antrópicos. In: Primera generación de indicadores de la línea base de información ambiental en Colombia. Sistema de Información Ambiental de Colombia. Bogotá: IDEAM, 2002

### **SPEAKER AT INTERNATIONAL CONFERENCES AND UNIVERSITY LECTURES**

- Lessons learned from the implementation of bioenergy sustainability indicators in several countries. Seminar on bioenergy sustainability indicators. Argentinean Ministry of Agriculture, Livestock and Fishery. Buenos Aires, May 2014
- Sustainability of the bioeconomy - Annual Meeting of European Bioplastics. Berlin, June 17, 2013
- Sustainability of solid biomass – practical challenges for the bioenergy sector. AEBIOM European Bioenergy Conference. Brussels, 25-27 June 2012
- Sustainable bioenergy: role, challenges and policy framework. Bioenergy commodity trading 2011. Copenhagen, 18 October 2011.
- Sustainability requirements for biomass. International wood energy conference. Augsburg, 23 September 2011
- Sustainable biomass identification mission for Colombia. Expert Meeting Bio-based Economy Colombia/Netherlands. Utrecht, 14 September 2011
- 1st International conference on Lignocellulosic Ethanol. Sustainable biofuels and the role of lignocellulosic ethanol. European Commission in collaboration with the US Department of Energy. Copenhagen 15 October 2010.
- IRENA Workshop on Renewable Energy Potentials. Biomass Resource Assessment UNEP/DTIE – Paris. 5 November 2009

### **HONORS AND AWARDS**

- Doctoral scholarship from the German Academic Exchange Service (DAAD).
- University-Enterprise scholarship from the Universidad de los Andes.

### **OTHER ACHIEVEMENTS**

- Touring cycling, 2013-2016. 14000 km cycling through 14 countries in Asia (Turkey), Europe and South America.
- Organic agriculture and conservation. 2013-2015. Volunteering in the following small farms and community projects in South America:
  - o Tropical dry forest private conservation area "Gotas de Agua", Jaen, Peru
  - o Cocoa production cooperative "Kallari", Kichwa community, Tena, Ecuador
  - o Family farm "Tabanoc", Salento, Colombia