

PERSONAL INFORMATION

Hugo LUCAS PORTA



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Sex Male | Date of birth 16/09/1972 | Nationality Spanish

WORK EXPERIENCE

11/2014 – Present

Head of the Energy Department

Factor CO₂, Bilbao, Spain.

Strategy:

- Overall leadership in strategic projects for international industry players in the energy sector.
- Development of Factor CO₂'s business activities in the field of energy.
- Advice to governments, international donors, investors and corporations for the definition of their clean energy strategy.
- Provision of leadership and support development of staff.

Main projects:

- *SlovSEFF III*. Financed through the European Bank for Reconstruction and Development (EBRD) SlovSEFF III is a sustainable energy financing facility providing loans and an incentive payment to renewable and energy efficiency projects in the Slovak Republic.
www.slovseff.eu
- *Green Building Programme in Peru*. Financed by the International Finance Corporation (IFC), sensitivity and cost-benefit analysis of a comprehensive set of energy efficiency, renewable energy and water saving measures to be included in the Peruvian Technical Building Code.
- *Tendering for hybridization of diesel-based mini grids in Mali, Madagascar, Philippines and Myanmar*. Financed by the German Cooperation Agency (GIZ). Development and implementation of a training on tendering design for renewable energy. Support to the governments and key actors in Mali, Madagascar, Philippines and Myanmar in the drafting of the terms of reference for hybridization of mini-grids.
- *Technical evaluation of renewable energy climate mitigation projects*. Member of the expert team providing technical evaluations of the renewable energy projects applying for funding to the International Climate Initiative (IKI) of the German Federal Ministry for the Environment, Nature Conservation, Building and Nuclear Safety (BMUB).

Type of business and/or sector

Strategic consulting; renewable energy; market development; policies; finance; capacity building; outreach.

03/2015 – Present

Adjunct Professor

Faculty of Environmental Studies, University of York, Toronto, Canada.

- Areas of research:
 - Address challenges for the transition towards an energy system based on renewable energies;
 - Identify the potential roles of citizens in the energy transition.

Type of business and/or sector

Academia; research; energy.

11/2010 – 02/2014

Director of the Knowledge, Policy and Finance Centre.

International Renewable Energy Agency (IRENA), Abu Dhabi, United Arab Emirates.

Strategy:

- Provide strategic direction to the Agency, as i.e. for its medium-term strategy.
- Provide leadership for the design, implementation and monitoring of work programmes for the Knowledge, Policy and Finance Centre (KPFC), ensuring coherence of all programme components.
- Built strategic alliances with international organisations, and other institutions in the field of renewable energy (RE) to establish a broad and supportive network for the Agency.
- Report to IRENA's governing bodies on the implementation of the work programme and budget.
- Participate in meetings, seminars, conferences on issues related to the work of the KPFC, including to represent IRENA at international, regional, and inter-agency level.

Policy and financial advice; knowledge management:

- Define an initial methodological approach for structured RE policy and financial advice to Member States (MS) based on their specific needs and challenges.
- Deliver advice to MS upon request and identify financing mechanisms for the implementation of their RE programmes. Analyse and categorise financial mechanisms and their effectiveness regarding the deployment of RE. Establish and maintain relationships with important funding structures.
Design a knowledge gateway for MS and other stakeholders to make RE intelligence and data accessible.

Main projects:

- *REValue*. Closing knowledge gaps with respect to the socio-economic benefits of RE deployment. Analysis of the economic value created and identification of policy options to optimise value creation.
<http://revalue.irena.org/>
- *IRENA – Abu Dhabi Fund for development project facility*. The Facility provides sovereign funding to governments of developing countries in the form of concessionary loans to support their development priorities through the deployment of renewable energy technologies. Assessment of best practices of existing funding facilities. Development of project application procedures, templates, guidelines and an online tool for applicants. Development of criteria and templates for evaluation of projects. Implementation of the first project cycle.
<http://adfd.irena.org/>
- *Improvement of understanding of economic and financial conditions to leverage RE investment*. Consultations with MS during Ministerial Round Table on Financing RE in developing countries at the Third Session of IRENA Assembly. Consultation with main financial institutions at the EBRD/IRENA expert meeting on 'De-risking Renewable Energy Finance'. Publication, and dissemination of the main findings of the report on Financial Mechanisms and Investment Frameworks for Renewables in Developing Countries.
http://irena.org/Finance_RE_Developing_Countries.pdf
- *Coalition for Action to Bolster Public Support for Renewable Energy*. The Coalition for Action to Bolster Public Support for Renewable Energy has been established with a main aim to communicate clear, truthful messages over renewable energy to the public and decision makers around the world. The Coalition consists of diverse stakeholder groups from different countries, including industry associations, investors, utility companies, manufacturers, and civil society organisations. This multi-stakeholder approach guarantees the robustness of balanced arguments as well as addressing legitimate public concerns over renewable energy technologies.
www.irena.org/publicsupport
- *International Off-Grid Renewable Energy Conference & Exhibition*. The options available to policy makers seeking to accelerate electrification have developed significantly in recent years. IOREC provided an opportunity for dialogue, particularly between the public and private sector.
www.iorec.org
- *IRENA Renewable Energy Learning Partnership*. The availability of a skilled workforce will be critical for the global transition from fossil fuels to renewable energy sources. IRELP facilitates access to education in renewables, creates awareness about skills gaps and labour shortages in the renewable energy sector.
www.irelp.org

- *Promotion of investment in RE through Nationally Appropriate Mitigation Actions (NAMAs)*. After consultation with Member States, development of the IRENA Handbook on Renewable Energy Nationally Appropriate Mitigation Actions (NAMAs) for Policy Makers and Project Developers. Official side event at the 18th session of the Conference of the Parties to the UNFCCC in Doha, Qatar.
http://www.irena.org/DocumentDownloads/Publications/Handbook_RE_NAMAs.pdf
<http://www.irena.org/menu/index.aspx?mnu=Subcat&PriMenuID=30&CatID=79&SubcatID=271>
- *ProSPER*. A capacity building initiative supporting members of the Economic Community of West African States (ECOWAS) in their aspirations to tap the huge renewable energy resources, particularly solar, in the region. Tailored train was given to policy makers, financing institutions and entrepreneurs.
- *Promoting the Enabling Environment for Renewable Energy Deployment in the Pacific SIDS*. The initiative is designed to support Pacific Islands Members or Signatories of the Agency to create an enabling environment for renewable energy deployment and to meet national renewable energy targets. The initiative focuses on deployment of grid-connected solar energy technologies.
- *CaDRE*. Development of a comprehensive methodology (handbook and toolbox) to conduct capacity needs assessments in the solar and wind energy sector. Training session for practitioners of the ECOWAS region during the First IOREC.
http://www.irena.org/News/Description.aspx?NType=N&News_ID=215
<http://www.irena.org/menu/index.aspx?mnu=Subcat&PriMenuID=30&CatID=79&SubcatID=260>
- *Cyprus tendering scheme for photovoltaic systems*. Advice was provided for the design of the scheme.
- *Renewable Energy Policy Day*. An event regularly held in the margins of the IRENA governing body meetings, as a platform for Member countries to present their latest legislations.

Type of business and/or sector

Intergovernmental agency; renewable energy; policies; finance; knowledge management, capacity building, outreach.

01/2010 – 10/2010

Work Programme Coordinator.

International Renewable Energy Agency (IRENA), Abu Dhabi, United Arab Emirates.

- Provide strategic and technical support and advice to the Interim Director-General.
- Develop and implement, under the guidance of MS, the Work Programme and Budget for the Agency in 2010.
- Report to the Agency's governing bodies on the progress of implementation of programmatic activities.

Main projects:

- *Tonga Energy Roadmap 2010 - 2020 (TERM)*. The TERM is a comprehensive and long-term sustainable energy plan for the Kingdom of Tonga to achieve its target of 100% renewables in 2020. IRENA developed the Off-grid component for the roadmap. Assessment of the regulation and provision of recommendations on electricity tariff setting.
- *Global Renewable Energy Policies and Measures Database*. Establish the strategic partnership with the International Energy Agency (IEA) to join efforts in improving availability and quality of renewable energy policy information, particularly of developing countries.
<http://www.iea.org/policiesandmeasures/renewableenergy/>

Type of business and/or sector

Intergovernmental agency; renewable energy; policies; finance; knowledge management.

01/2009 – 12/2009

Senior Policy Officer Renewable Energy

Instituto para la Diversificación y Ahorro de la Energía (IDAE), Spanish Ministry for Industry, Energy and Tourism (MINETUR). Madrid, Spain.

- Lead the development, implementation, and evaluation of appropriate policies and measures for RE deployment in the framework of the mandatory objectives set by the European Directive.
- Coordinate the drafting of the National Renewable Energy Action Plan 2020 (NREAP), including 19 background studies.
- Hold consultations with the relevant non-governmental stakeholders and networks providing comments on the NREAP. Liaise with and maintain cooperation with the respective governmental bodies affected by the NREAP.
- Ensure delivery of mandatory reports on the development of RE according to both national and international commitments.
- Supervise preparation of various written outputs, substantial sections of reports and studies.
- Represent IDAE at national and international fora.

Main projects:

- *Spanish Renewable Energy Plan 2011 – 2020 (NREAP)*. The NREAP is a mandatory requirement arising from the European directive on promotion of the use of renewable energy sources. It develops Spain's strategy to fulfil its mandatory targets.
- *Supervision and coordination of inputs related with renewable energy for the Sustainable Economy Act (Act 2-2011)*. This Act sets national targets for energy saving and renewable energy; provides the framework for the development of comprehensive energy planning; forms the basis for the preparation of National Plans for Energy Efficiency; and develops the conditions for a competitive energy market.
- *Supervision and coordination of inputs related with renewable energy for the Sustainable Rural Development Plan (Royal Decree 752/2010)*. Analysis and assessment of the status of rural areas in Spain; definition of a rural development strategy; specification of types of actions and tools; and determination of the framework of cooperation between public administrations concerning rural development.
- *Supervision and coordination of inputs related with renewable energy for the Public Fund for Local Investment and Special Public Fund to foster Economy and Employment (Royal Decree-Law 9/2008)*. Endowment of two funds aimed at promoting investments to create jobs in strategic economic sectors at municipal level.
- *Set up the Feed-In Tariff application office, dealing with the Feed-In Tariff administrative procedures.*
- *Ontario Green Energy Act*. Advice to the Ontario Power Authority, Canada, in the drafting of the Ontario Green Energy Act that proposes a Feed-In Tariff scheme.

Type of business and/or sector

Government; renewable energy; policies; finance; European and international cooperation.

09/2003 – 12/2008

Policy Officer International Cooperation and European Union Policy

Instituto para la Diversificación y Ahorro de la Energía (IDAE), Spanish Ministry for Industry, Energy and Tourism (MINETUR). Madrid, Spain.

- Implement bilateral and multilateral development cooperation projects in Latin America, Eastern Europe and China.
- Focal point for the Spanish Office of Climate Change (OECC) of the Ministry of Agriculture, Food and Environment on international cooperation in renewables.
- Spanish delegate in the energy working group of the European Council with regards to the discussions on renewable energy in the framework of the European 2020 Climate and Energy Package.
- Delegate of the Spanish Secretary of Energy for the implementation of the Memorandum of Understanding on the Clean Development Mechanism between Spain and the governments of Morocco and Mexico.

- Prepare and write publications, background papers, reports and studies, including providing the analysis and substantial input.
- Coordinate the organisation of technical workshops at an international level, and technical missions, as well as other outreach activities.

Main projects:

- *Technical assistance, funded with Official Development Assistance from the Spanish Agency for International Cooperation (AECID). Coordinating technical and financial implementation and reporting of the following projects:*
 - *Electrification of 79 rural households in Inner Mongolia (China) (2003-2006).* Installation of 79 solar home systems, in cooperation with the Spanish company ATERSA. Design and implementation of a capacity building strategy at local level for the sustainability of the project.
 - *Governmental Support for the Development of a Legal Framework for Renewable Energy Promotion in China (2006).* The project aimed to share first-hand information on existing legislation in Spain in the promotion of renewable energies, the process used, the criteria applied, receptivity among stakeholders and general accumulated experience that can be useful in the preparation of Chinese regulatory framework.
- *Cooperation Project on Promotion of Clean Development Mechanism (CDM) between China and Spain (2006).* The project consists in a training programme on CDM for renewable energy projects affecting both countries. Workshops and technical missions with officials from China and Spain were conducted.
- *Technical assistance, in the framework of different European Union programmes. Coordinating technical and financial implementation and reporting of the following projects:*
 - *OPET Latin America (2003-2005).* Cooperation on a comprehensive approach, in six Latin-American countries, for the promotion of European renewable energy and energy efficiency technologies. Providing market analysis and policy assessments. Dissemination of the results through seven national workshops.
 - *Selected Renewable Energy and Energy Efficiency Technologies for Clean Development Mechanism (CDM) Opportunities in Latin American Countries (TECH4CDM) (2008-2009).* Capacity Building on policy types for the promotion of selected renewable and energy efficiency technologies, and development of projects under the Clean Development Mechanism, in Mexico, Ecuador, Peru, Chile and Argentina.
 - *Optimization of Support Schemes for Renewable Energy Sources for Electricity Generation, Heating and Cooling – SUPPORT_ERS (2007-2010).* Selection of best practices for promoting renewable energy for heating and cooling, formulation of recommendations and dissemination of the results among Eastern European countries.
- *Technical assistance for the drafting of the Peruvian Renewable Energy Decree (Act 2).* Financed by the World Bank, support to the Peruvian regulator on the design of the tendering process for renewable electricity.
- *Participation as focal point for the Spanish Office of Climate Change (OECC) on international cooperation on renewables in the:*
 - Implementation of the Memorandum of Understanding on Clean Development Mechanism between Spain and the governments of Morocco and Mexico.
 - COP in Poznan and Copenhagen.
 - G8+12 Environment Ministers Meeting of the Gleneagles Dialogue (Berlin, September 2007; Chiba, March 2008).
- *Activities related with responsibilities on European Union renewable energy policy:*
 - Spanish delegate for the European Council discussion on Directive 2009/28/EC of the European Parliament and of the Council on the promotion of the use of energy from renewable sources. Identification of national priorities, negotiation with Member States and articulation of the Spanish priorities during the discussions of the draft proposal at the Energy working group of the European Union Council.
 - Responsible of the International Cooperation, between the governments of Germany and Spain. The International Feed-in Cooperation (IFIC) on programmes and policies for renewable electricity. Its goal to improve, by the analysis of the best design options, the Feed-In Tariff systems and the international dissemination of this policy instrument. Organisation of workshops, draft of policy assessment reports.
 - National delegate in the European Commission's Working Group on National Biomass Plans.
 - Spanish delegate in the European Union national experts meeting on Life Cycle Analysis of Biofuels.

Type of business and/or sector

Government; renewable energy; climate change; policies; finance; European and international cooperation.

03/2002 – 08/2003

Project Leader.

CO2-SOLUTIONS Consulting, Madrid, Spain.

- Execution of consultancy and applied research projects on energy and climate policy topics.
- Proposal preparation for public and private tenders.
- Develop our business in the area of renewable energies and climate change.

Main projects:

- Challenges and Opportunities for Cementos Portland SA arising from the New European Laws for Climate Change Mitigation. Cementos Portland.
- Assessment of the Impact of the new European Regulatory Framework on Greenhouse Gases Emissions for the Region of Madrid. Cámara de Comercio de Madrid.
- Position of the Cement Industry Sector to the European Emission Trading Scheme Directive. Boston Consulting Group.
- Co-firing of Alternative Fuels in Cement Kilns and CO2-Emission Reductions. CEMEX.
- Advice to the Environment Committee of the Confederation of Companies and Industries of Madrid (CEIM) on issues related to quality of the air.

Type of business and/or sector

Consultancy; energy; climate change; policies; finance.

01/2001 – 11/2010

General Secretary.

Asociación para la difusión de las aplicaciones de la biomasa en España (ADABE), Madrid, Spain.

- Promoting position papers on national bioenergy policies, taking part in national consultations, promoting thematic events and participating in the sessions of the Steering Committee of the European Biomass Association (AEBIOM).

Type of business and/or sector

Lobby group; bioenergy; policies; finance.

09/1998 – 08/2000

Junior Engineer Energy Systems.

Laboratory of Energy Systems (LASSEN), Civil Engineering Department, Ecole Polytechnique Fédérale de Lausanne (EPFL), Lausanne, Switzerland.

- Characterisation and analysis of different production routes of bioethanol in the Swiss context, relative to the potential of introduction of bioethanol as an additive to gasoline. Economic viability and Life Cycle Assessment.
- State of the art of the wood gasification technologies. Technical assessment on the state of technologies.

Type of business and/or sector

Research; bioenergy; bioethanol.

EDUCATION AND TRAINING

07/2010 **International visitor program on energy and environment issues**

Department of State, United States of America.

- Energy policy issues of concern to Europe and the U.S., including development of alternative sources, efforts to promote efficiency, energy conservation, and industry best practices;
- Exposure to the various players in U.S. energy policy formulation at all levels and to a range of views in the public, academic, and private sectors;
- State and local energy initiatives that incorporate or plan to incorporate the use of alternative energy sources, including support to develop new technologies for clean energy;
- Demonstration of effective actions taken against climate change by the private sector and various U.S. federal, state, and local government authorities.

2003 – 2009 **Postgraduate studies agronomic engineering**

Polytechnic University of Madrid (UPM), Spain.

- Plant protection and sustainable management of the agricultural resources at the Escuela Superior de Ingenieros Agrónomos of Madrid (ETSIAM).
- Advanced Studies Diploma presenting the subject: «Biomass in the Spanish Renewable Energy Plans. Economic and social issues of the bioenergy».

1998 – 2000 **Postgraduate studies in the energy sector**

Swiss Federal Polytechnic University of Lausanne (EPFL), Switzerland

- Technologies, processes and economy of the energy sector (oil, coal, natural gas, nuclear, hydroelectric power and renewable energies). Analysis of investments, energy use, risks and environmental impacts of energy.
- **Final Project:** Economic and Life Cycle Analysis of Biodiesel Production from Cynara cardunculus oil in Spain.

1990 – 1996 **Agronomic engineer**

Polytechnic University of Madrid (UPM), Spain.

- Degree as Agronomic Engineer at the Escuela Superior de Ingenieros Agrónomos of Madrid (ETSIAM).
- **Final Project:** Sewage treatment plant at a cheese factory in Algete, Spain.

PERSONAL SKILLS

Mother tongue Spanish

Other language(s)

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	C2	C2	C1	C1	C1
French	C2	C2	C1	C1	C1
Portuguese	B2	B2	B2	B2	B2
German	A2	A2	A1	A1	A1

Levels: A1/2: Basic user - B1/2: Independent user - C1/2 Proficient user
Common European Framework of Reference for Languages

Social skills and competencies

- Proven ability to adapt to and work in multicultural environments gained during extended periods of working abroad.
- Highly developed ability to implement projects in shared responsibilities, and to collaborate with colleagues to achieve organisational goals.
- Strong ability to listen to project partners and respond appropriately.
- Excellent ability to establish and maintain effective working relationships.
- Outstanding networking skills.

Organisational skills and competencies

- Flexibility to adapt to changing requirements gained during more than 10 years of work in a fast-paced and political environment.
- Experience of more than 10 years in proposing, planning, executing and presenting projects, particularly in the field of design and implementation of renewable energy policies and projects. As a project leader I was responsible for their success in terms of achievement of objectives, timeliness and budget.
- Reliability and strong ability to deliver thorough work in compliance with planning also under increased workload. High commitment.
- Highly developed ability to work independently.

Technical skills and competencies

- In-depth knowledge of energy, climate and environmental concepts.
- Expert knowledge in policy instruments and financial mechanisms to promote renewable energy.
- Profound knowledge on climate change and protection; climate policy, economics and finance; and institutional landscape.
- Thorough understanding of European and international cooperation mechanisms.

Computer skills

- Good command of Microsoft Office™ tools.

ADDITIONAL INFORMATION**Publications**Coordinating Lead Author:

- Adapting Renewable Energy Policies to Dynamic Market Conditions; International Renewable Energy Agency (IRENA), 2014.
- Renewable Energy and Jobs; International Renewable Energy Agency (IRENA), 2014.
- Insights from Interviews, a Survey, and a Workshop with Potential End-Users of the Global Atlas for Solar and Wind Energy; International Renewable Energy Agency (IRENA), 2013.
- International Off-grid Renewable Energy Conference 2012: Key Findings and Recommendations; International Renewable Energy Agency (IRENA), 2013.
- Renewable Energy Auctions in Developing Countries; International Renewable Energy Agency (IRENA), 2013.
- Capacity Building Strategic Framework for IRENA (2012 - 2015); International Renewable Energy Agency (IRENA), 2012.
- Evaluating policies in support of the deployment of renewable power; International Renewable Energy Agency (IRENA), 2012.
- Financial Mechanisms and Investment Frameworks for Renewables in Developing Countries; International Renewable Energy Agency (IRENA), 2012.
- IRENA Handbook on Renewable Energy Nationally Appropriate Mitigation Actions (NAMAs) for Policy Makers and Project Developers; International Renewable Energy Agency (IRENA), 2012.
- Policy Challenges for Renewable Energy Deployment in Pacific Island Countries and Territories; International Renewable Energy Agency (IRENA), 2012.
- Renewable Energy Jobs & Access; International Renewable Energy Agency (IRENA), 2012.

- Renewable Energy Jobs & Access - Case studies; International Renewable Energy Agency (IRENA), 2012.
- Renewable Energy Jobs: Status, Prospects & Policies; International Renewable Energy Agency (IRENA), 2011.
- Renewable Energy Policy in Cities: Selected Case Studies; International Renewable Energy Agency (IRENA), 2012.
- Technology Action Plan: Solar Energy; Major Economies Forum (MEF), 2009.
- Technology Action Plan: Wind Energy; Major Economies Forum (MEF), 2009.

Lead author:

- Chapter 11: Policy, Financing and Implementation, Special Report on Renewable Energy Sources and Climate Change Mitigation (SRREN); Intergovernmental Panel for Climate Change (IPCC), 2011.
- Energías renovables para todos. Biocarburantes; Energías Renovables, 2007.

Contributor:

- Capacity Development Needs Diagnosis for Renewable Energy CaDRE: Handbook and Toolbox; Clean Energy Ministerial – Multilateral Working Group Solar and Wind, 2012.
- Orange Deals. Solar Energy Policy Initiatives Worldwide; Center for energy Studies and Policy Analysis (CESPA), 2012.