

PhD Candidate in Energy Economics: Energy storage and electricity markets

MANUEL VILLAVICENCIO

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EDUCATION

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| 2014 | PhD candidate in Energy Economics. Paris Dauphine University. Paris, France. |
| 2013 | Master degree in Energy Economics. IFP-School, INSTN – Paris X University. Paris, France. |
| 2012 | Master degree in Energy Engineering and Renewable Energies. BarcelonaTech. Barcelone, Spain. |
| 2008 | Mechanical Engineering degree. Simon Bolivar University (USB). Caracas, Venezuela. |

LANGUAGES

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| Spanish | Native language |
| English | Advanced level , TOEIC certificate 2012. |
| French | Advanced level , certified by Centro Francés, Caracas 2009. |
| Catalan | Basic level , certified by Servei De Llengües i Terminologia UPC, Barcelona. |

PROFESSIONAL EXPERIENCES

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| 2013 | Long term internship at EDF R&D, France – Cost cartography of concentrating solar power (CSP) technologies: Analysis of the current status and cost of CSP technologies, parametric characterization of economic feasibility regarding solar irradiation and storage capabilities, and techno-economic uncertainty analysis for risk assessment of CSP projects (15/04/2013 – 01/09/2014) |
| 2012 | Rural Electrification Master Plan for Jigawa State (Nigeria): Master thesis on strategic planning of the electricity sector at the state level. Joint cooperation project between the local authority (Rural Electricity Board of Jigawa State), the ECREE (ECOWAS) and the research center GRECDH (Polytechnic University of Catalonia). Excellence award certification. |
| 2011 | Short term Internship - Project Management at WindyWorld: Strategic wind energy consulting firm based in Barcelona, Spain with offices in Cape Town, South Africa. The main tasks were to give technical support of the wind projects in South Africa; participation in equipment selection, due diligence tasks according to the South African Energy Department requirements including EIA, CAA, SIA, Water Usage procedures, EPC negotiation and management, contribution on the project financial plan and legal risks assessment for the submission of a 20MW wind farm within the national established bidding process. Short term Internship (07/2010 – 10/2011). |
| 2011 | Long term Internship – Research Specialist at Quimera Project: Lead technical and prefeasibility studies on the renewable energies field, energy efficiency and energy storage. Support development of projects. Technical and economical benchmarking of different clean energy technologies. Assistance on proposals response and other communication documents. Long term internship (12/2010 – 07/2011). |
| 2009 | Project engineer - CentralSug Venezuela. Planning, coordination and evaluation the updating works of the waste handling vacuum systems (ENVAC type) at the Centro Simón Bolívar. Caracas, Venezuela. |
| 2008 | Long-term Internship and Degree Final Project in Schick & Wilkinson Swords Latinoamerica (SWS): Mechanical design and construction of the blade drying installation for the Schick & Wilkinson factory. Guatire, Venezuela. Project finished with an excellence award by the Simon Bolivar University, Caracas. |

COMPUTATIONAL SKILLS

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| ENERGY MODELING & GIS | SAM (RE simulation), HOMER V2.68 (micropower system modeling), PVSyst 5.0, GVSIG 1.11. |
| MATH & STATISTICS | GAMS (mathematical programming), SAS 9.3 (Statistical analysis), R 2.14, MatLab, MathCAD14. |
| PROJET MANAGEMENT | MS Project 2010, Merlin PM tool 2011. Expertise in google apps communication and productivity tools. |
| CAD & GRAFICS ARTS | Autocad 2009, SolidWorks 2007, Adobe Premier CS4, Adobe Lightroom CS3, Photoshop CS5. |
| OS & GENERALITIES | Mac OS X, Windows 8; MS Office package, Keynote, Numbers. |

OTHER INTEREST INFORMATION

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| 2009 | Sports: Climbing, biking, swimming and running. |
| 2007 – 2008 | Workshop in studio lightning. ONG, Caracas. |
| 2007 – 2008 | Co- founder and board member of the surfing club NALU USB. |
| 2006 – 2007 | Secretary and board member of the photography group (CAF-USB). |
| 2007 | Amarello – Crua capoeira belt. Centro cultural de capoeira RAIZES DO BRASIL. |
| | Second period aspirant, BAJA SAE USB prototype. |