

Curriculum Asier Larretxea

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Date of Birth : August, 19th, 1981
Place of Birth : Donostia - San Sebastian, Spain
Nationality : Spanish



KEY QUALIFICATIONS

Asier Larretxea is Senior energy consultant and Associate Senior Consultant at SQ Consult. Previously Asier has worked at the Corporate Strategy Department of Eneco B.V. (Dutch Utility), and at the international consultancy firm Ecofys.

During the last 15 years, Asier has focused on the transformation of the energy sector (Energy Transition) and on the analysis of the business, technology and socioeconomic impacts of this transformation in companies and public institutions. This includes actions such as the redefinition of the company strategy, Innovative business model development, technology assessments, new markets analysis, and the design of policy and regulations for public administration.

The work covers topics such as energy in the urban environment, self-consumption and prosumers, Distributed generation and storage, electromobility, electrification of heat, energy-as-a-service models, mobility-as-a-service models, flexibility models, electricity market reforms, smart grids and digitalization, or electrification and microgrids, among others.

He has successfully directed and coordinated international projects in the energy sector at various levels (from international policy to building level projects), such as: "Business opportunities and strategy impact of electromobility and energy transformation for CAF/Solaris", "future technology service and product requirements for Distributed generation, electromobility, and prosumers (Ikerlan, Tecnalia)", "the socio economic impact of self-consumption in Europe", "risks and opportunities from the power sector transformation for distribution system operators (DSOs)", "revenue streams in the future electricity system for utilities", "Electricity market reforms (ERMs) and discussed Capacity Remuneration Mechanisms (CRMs)", "International review of microgrid research activities", "Research on advanced international energy performance and water efficiency regulations for residential and service buildings", "Implementation and market analysis for promotion of Renewable Energies and technology in the Basque Country", "Sustainable Energy Plan for Province of Gipuzkoa", "Research for the development of a tool to assess the energy use on new urban developments", "The development of the solar thermal legislation for Chile", the "research on the international estate of the art on district heating and cooling" and various technical studies for building performance optimization, among others.

Together with his activities in SQ, from 2013-2017, Asier has conducted a research, using complexity theories to analyze the energy transition (towards a smarter, more sustainable and more decentralized electricity systems), improve decision making processes for industry, and identify upcoming risks and opportunities. The research was conducted at the Innovation, Environment and Energy Department, Copernicus Institute of Sustainable Development (Utrecht University), as a guest researcher.

In addition to energy, Asier has also experience in topics related to sustainability, such as Sustainable Development and Urban Design, Sustainable Construction (he is familiar with BREEAM and Green Building Tool assessments (GB-Tool)) and waste and water treatment, among others.

Asier holds a MSc. in Urban Environmental Management, specialized Energy in the Built Environment and Sustainable Construction by the Wageningen University and Research – WUR (The Netherlands). He concluded his studies on Landscape Architecture and Urban and Regional Planning at WUR. He is also an MSc Agriculture Engineer at the Public University of Navarra (Spain).

EDUCATION AND TRAINING

<i>2004-2006</i>	Wageningen University and Research, The Netherlands Master in Urban Environmental Management Esp. Sustainable Buildings and Energy in the Built Environment”.
<i>2004-2005</i>	Wageningen University and Research, The Netherlands International Studies of Landscape Architecture: Urbanism and Regional Planning.
<i>2003-2006</i>	Public University of Navarra, Spain Agriculture engineering (Master).
<i>1999-2003</i>	Public University of Navarra, Spain Technical Agriculture Engineering Distinction with Best academic curricula (2003). (10) Graduate with honors. Finalist: National Prize of Landscaping and gardening, IBERFLORA (2004).
Others	Copernicus Institute of Sustainable Development. Utrecht University. 2013- 2017: Guest Researcher: Understanding of energy transition through complexity science.

LANGUAGES

English:	Excellent
Spanish	Mother tongue
Basque:	Mother tongue
Italian:	Good
Catalan:	Reading and understanding

WORK EXPERIENCE

2009- to present SQ Consult, B.V.

Senior Associate Consultant,

Main responsibilities: Senior Consultant. Management, expert, acquisition responsible. Fields of specialization: Expert in Energy in the Urban Environment, consumer-oriented business models and decentralized energy systems.

- Innovative Technology implementation and evaluation: integration of energy efficiency solutions for buildings, RE generation, storage, electromobility, IT integration and virtual platform solutions, blockchain, IoT, among others.
- New customer-oriented business models: Design, implementation and evaluation. Self-consumption and prosumers, Energy-as-a-service, mobility-as-a-service, innovative utility services, P2P energy trading, local energy markets.
- Energy markets organization: Close-to-real time trading, Local flexibility markets, PPA, heat markets, etc.
- Energy strategy and policy: Design, implementation, monitoring and evaluation. EPBD, Energy Efficiency Directive, RE Directive, National Energy and Climate Action Plans.
- Distribution electricity networks: Regulation, technology implementation and business development.
- Energy modelling for buildings and urban zones.

2017- to present Asier Larretxea Energy Consulting

Senior Consultant, Owner

Main responsibilities: Owner and Energy Expert.

- Business strategy development in the energy industry.
- New energy market developments.
- Government advisor for industrial development.

2014- 2017

Eneco B.V. (National Utility NL).

Senior Advisor Energy Transition, Corporate Strategy

Main responsibilities: Market Analysis; Project management; Business development; Risks Analysis.

- Transformation of the utility markets and services in the energy transition context.
- Identification of new opportunities and risks in customer-oriented services and products.
- Restructuring of decision-making processes and tools.
- Support to the Fundamental Analysis team on energy modeling.

2006- 2009

Ecofys Spain SL.

Consultant Energy in the Built Environment. Ecofys

Main responsibilities: Project management; Project acquisition, Spanish and Latin American markets; consultancy.

- Implementation of the EPBD and Energy Efficiency Directive regulation in new and existing buildings.
- Energy efficiency and renewable energy solutions in the built environment.
- Urban/city planning and energy solutions. solutions.
- Building and urban energy modelling.
- Acquisition coordination northern Spain.

2005 – 2006

Wageningen University and Research, The Netherlands

Coordinator and Researcher at Urban Environmental Management Group. Study of the Energy Performance in Buildings Directive (EPBD).

Main responsibility: Coordination of a research team for a study on the implementation of the legislation for renewable energies and energy efficiency in buildings, in Spain.

2004 - 2005

RAL Architectural office, Rotterdam, The Netherlands

Internship: Coordination of “Workshops for the International Biennale of Architecture of Rotterdam”

Main responsibility: Coordinator of the technical/scientific content for the sustainable design workshop. Topics: Renewable energy production from inverse osmosis (Blue Energy) and “Decentralized water treatment systems (DESAR) concept”.

SELECTED [RESEARCH AND] CONSULTING ASSIGNMENTS

2019-2020	New energy regulation and energy performance improvements for buildings. Technical and policy guide for Small and Middle Enterprises (SMEs). Project Director. Naturklima, 2020.
2019-2020	Coordination of the study: identification of innovative Energy and mobility services for end customers. New European regulation and business context. Project Director. For the Cluster of Energy for industrial sector. 2019-2020.
2019	identification of business opportunities and definition of company strategy in the context of new electricity and electromobility context in Europe for CAF/Solaris. Project Director. For CAF International, 2019;
2019	Self-consumption, electromobility, prosumers, smart grids and digitalization: Impact on technology, innovation requirements and business opportunities for the European Industry. Project Director. For Ikerlan Technology Research Centre, 2019.
2018	Analysis of energy self-consumption and the energy prosumer in the local energy markets. Project Director. For the Provincial Government of Gipuzkoa, Spain.
2017-2018	Business and technology innovation requirements in the context of more distributed and user-centric electricity systems. Project Director. For Tecnalía Technology Research Centre, 2018.
2016-2017	Expert's view on future electricity systems and revenue streams: The case of prosumer participation business models. Project director. For Eneco BV Utility, 2017;
2016-2017	<i>Towards future electricity systems</i> : Analysis of the different understanding of value stream (product and service) transformations through a network approach, for end customers and prosumers. Project Director. For Eneco Utility, 2016;
2015-2016	Identification of main factors that influence future electricity system transformation in the European Context. Director. For a Private Utility, 2016.
2015-2016	Risks and opportunities from the power sector transformation for distribution system operators (DSOs). Project Director. For Stedin, Distributed System Operator, 2015;
2015	Role of microgrids as enabler of decentralized energy business models. Project Director. For a Private Utility. 2015;
2014	Smart Microgrids. Concept definition and role in the future power system. Project Director. Private Utility. 2014;
2014	Defining smart microgrids: Literature review on international understanding of microgrid and smart grid concepts. Internal Research. Utrecht University. 2013-2014;
2013-2014	Electricity market reforms (ERMs) and discussed Capacity Remuneration Mechanisms (CRMs), Italy. Consultant. EU Commission. 2013-2014;
2013-2014	International State of the Art of sustainable energy and water building regulations: European, US and Israeli case studies. Consultant. Grundfos 2013-2014;

- 2012-2013 Advisory services on Low Carbon Action Plans. Various municipal governments, Regions of Catalonia and Basque Country. 2012-2013;
- 2012-2013 Towards innovative energy microgrid systems: Matching the curves of renewable energy supply with new efficient demand profiles. External Researcher. Various. 2012-2013.
- 2010-2012 Development of the Sustainable Energy Action Plan for the Province of Gipuzkoa. Project director. Regional Government of Gipuzkoa. 2010 – 2012;
- 2011-2012 Research and preliminary projects to analyze market opportunities for biogas plants in 3 rural areas. Project director. Various rural development associations. 2011-2012;
- 2010-2011 Study for the promotion of renewable energy installations and related business opportunities for the Basque Region. Renewable Energy Directive. Project director. LKS Scoop & Social and Economic Council of the Basque Country (CES Vasco). 2010 – 2011;
- 2010-2011 Evaluation of international best-case examples to overcome the barriers in the promotion of Renewable Energies in the Basque Region. Renewable Energy Directive. Project director. For the Social and Economic Council of the Basque Country (CES Vasco). 2010 – 2011;
- 2010-2012 Implementation of a sustainable energy supply infrastructure for a small village: Towards a local 100% renewable energy supply. Project director. For the Regional Government of Gipuzkoa. 2010 – 2012;
- 2010-2011 Policy and strategy advisor for the government on the energy strategy for the Province of Gipuzkoa. Project Director. For the Regional Government of Gipuzkoa, Spain. 2010.
- 2008-2009 Pre-Assessment for BREEAM sustainable building certification in a 56.000m² shopping mall, Madrid. Project director. ING Real Estate Development. 2008-2009;
- 2009 Development of the technical requirements on the regulation for solar thermal collectors and systems. Project director. National Commission of Energy, Chile. 2009;
- 2008-2009 Worldwide estate of the art of District Heating and Cooling, and future implementation in Chilean context. Project Director. National Commission of Energy, Chile. 2008-2009;
- 2008 Study for obtaining Spanish best energy certificate in apartment buildings”. EPBD certification scheme. Project Director. Abaroa S.A. Project Developer. 2008.

- 2007 Energy efficiency and renewable energy integration study in a 12.000m² warehouse. Nearly Zero Energy Building. Project Director. INEL 2000 Engineering – Leroy Merlin. 2007;
- 2006-2009 Installation of energy monitoring and management systems for buildings. Project Director and Installation responsible. Public administration and private sector. 2006-2009;
- 2006-2007 Research for the development of the Catalan tool for energy performance on location, (planning and urban developments). Expert. For the Catalan Government 2006-2007;
- 2006-2007 Support for implementation of the Spanish Building Code (CTE) and EPBD implementation on Energy Savings chapter for a logistics warehouse in Sollana (Valencia). Expert. Coperfil Group. 2006-2007;
- 2007-2008 Development and organization of courses on the update of the Spanish Building Code (CTE) on Energy Savings chapter. For Various project developers;
- 2007 Development and organization of courses for energy efficiency and savings in the public administration: Update EPBD regulation. For the Catalan government. 2007;
- 2007 Evaluation of Member States of the EPBD implementation status. Consultant. For the European Commission DG Ener.
- 2006-2008 Partner European Project “Check It Out! Energy at School”. EPBD and energy efficiency implementation in school buildings. Expert and energy auditor. European Commission. 2006-2008.
- 2006 Coordinator for the study of the European Energy Performance Building Directive (EPBD) implementation in Spain. Wageningen Research Centre. 2006.

SELECTED PUBLICATIONS AND REFERRED SCIENTIFIC ARTICLES

- 2006 Larretxea Barja, A. Blue energy: Salinity Gradient Power. On “Suburban Ark, Biennale of Architecture in Rotterdam, p. 42-46. 2006. The Netherlands.
- 2006 Larretxea Barja, A. DESAR Decentralized Sanitation and Re-use. Published on “Suburban Ark, Biennale of Architecture in Rotterdam, p. 28-33. 2006. The Netherlands.
- 2005 Min, B., Larretxea Barja, A. Design Meerstad: Visible Energy. Published on “Grounds for Change Energy Valley”, p. 65 - 68. 2005. The Netherlands.