

Part A. PERSONAL INFORMATION		CV date		01/06/2019
First and Family name	Jon Terés-Zubiaga			
Social Security, Passport, ID number	-	Age	-	
Researcher numbers	Researcher ID	G-9896-2015		
	Orcid code	0000-0002-6409-1824		

A.1. Current position

Name of University/Institution	University of the Basque Country (UPV/EHU)		
Department	Department of Thermal Engineering		
Address and Country	Plza Ingeniero Torres Quevedo, 1		
Phone number	+34 94 601 7782	E-mail	jon.teres@ehu.eus
Current position	Profesor Adjunto – Ayudante Doctor	From	8-10-2014
Espec. cód. UNESCO	330590 Transmisión de Calor en la Edificación		
Palabras clave	Energy retrofits; Building thermal behaviour		

A.2. Education

PhD	University	Year
Architecture	University of Navarra (UNav)	2009
PhD in Thermal Engineering	University of the Basque Country (UPV/EHU)	2014

A.3. JCR articles, h Index, thesis supervised...

- 13 papers in international Journals (11 JCR in Q1) and 3 chapter books.
- Total citations: 168 (Source: Scopus)
- Average citations in 2015 – 2019: 31.2 (Source: Scopus)
- h index: 8 (Source: Scopus)

Part B. CV SUMMARY (max. 3500 characters, including spaces)

Jon Terés-Zubiaga is Architect from the University of Navarra (2009). His research lines are related to energy retrofits and energy efficiency on buildings, focusing specially on thermal performance of buildings. Since 2010, he has worked at University of the Basque Country (firstly, with a PhD fellowship, afterwards as an Postdoctoral researcher and nowadays, as assistant professor, teaching different subjects in degree and Master degree, such as Heat Transfer, Thermal Engineering, Thermal systems and Renewable Energy, Energy Audits and Certification and European directives and research actions related to energy efficiency in buildings). In 2015, he was received the favorable evaluation of ANECA to access the non-civil servant academic staff body of PhD lecturer, and in 2019 he was received the favorable evaluation of ANECA to access the civil servant academic staff body of Associate professor. Moreover, he has taken part as coordinator of the publication of the Open Course “Energy in Buildings” (Creative commons license) in the program Open Course Ware. Likewise, he has participated in 8 research projects, all of them related to thermal performance of buildings.

After obtaining the Master Degree on Energy Efficiency and Sustainability in Industry, Transport and Construction (2010), he undertook the PhD thesis in Thermal Engineering program, an interuniversity Doctoral Program, which involves the University of the Basque Country UPV / EHU, the University of Vigo and the University of Burgos. The PhD thesis, with international distinction and focused on energy retrofits in social housing, merited the distinction Cum Laude and it received an Extraordinary Doctoral Award by the University of the Basque Country.

Also during his PhD research, he conducted a short-term research stay (from March to June 2012) at the TU Delft in the Netherlands, under the supervision of Prof. Andy Van den Dobbelen. During this stay, he worked with PhD S. Jansen evaluating the possibilities of

energy analysis as an instrument to analyze the potential of different energy retrofits in buildings.

After the presentation of his PhD, he was hired at University of the Basque Country as Postdoctoral researcher in the research project A2PBEER (*Affordable and Adaptable Public Buildings through Energy Efficient Retrofitting*), funded by European Union 7th Framework Programme. The main objective of that project was to develop a cost effective, “energy efficient retrofitting” methodology for public buildings.

As a result of the research work developed during the last 8 years, Jon Terés Zubiaga has published so far 11 papers in different international Journals indexed in JCR (all of them, Q1), as well as several papers in national journals and more than 20 communications in national and international conferences.

Moreover, as a member of ENEDI Research Group (<http://www.ehu.eus/enedi>) He has taken part in technical committees (such as Sustainability in Construction, AENOR) and international research work groups. For example, in IEA-EBC Annex 56 “Cost-effective energy and carbon emission optimization in building renovation” (<http://www.iea-annex56.org/>), and currently IEA-EBC Annex 75 “Cost-effective Building Renovation at District Level Combining Energy Efficiency & Renewables” (<http://annex75.iea-ebc.org/>). The last, where 13 different countries take part, aims to investigate cost-effective strategies for reducing greenhouse gas emissions and energy use in buildings in cities at district level, combining both energy efficiency measures and renewable energy measures. Moreover, in this Annex, he is coleader in STB “Optimization Methodology and Strategy Development”.

Part C. RELEVANT MERITS

C.1. Publications (including books)

E. Iturriaga, U. Aldasoro, **J. Terés-Zubiaga**, A. Campos-Celador (2018) “Optimal renovation of buildings towards the nearly Zero Energy Building standard”, *Energy*, Vol 160, pages 1101-1114

J. Terés-Zubiaga, E. Pérez Iribarren, I. González-Pino, J.M. Sala (2018) “Effects of individual metering and charging of heating and domestic hot water on energy consumption of buildings in temperate climates” *Energy conversion and management*, Vol 171, pages 491-506

I. Pérez-Capellán, A. Campos-Celador, **J. Terés-Zubiaga** (2018) “Renewable Energy Cooperatives as an instrument towards the energy transition in Spain” *Energy Policy*, Vol. 123, pages 2015-229

J. Terés-Zubiaga, K. Martín, A. Erkoreka, X. Aparicio, L.A. del Portillo (2017) Book Chapter: “Cost effective energy retrofitting of buildings in Spain: an office building of the University of the Basque Country”, in “cost-Effective energy efficient building retrofitting” Woodhead Publishing – Elsevier. pages 515-551

J. Terés-Zubiaga, A. Campos-Celador, I. González-Pino, G. Diarce. (2016) “The role of the design and operation of individual heating systems for the energy retrofits of residential buildings” *Energy Conversion and Management*, Vol 126, 15, Pages 736-747

A. Erkoreka, E. Garcia, K. Martin, **J. Teres-Zubiaga**, Del L. Portillo. (2016) “In-use office building energy characterization through basic monitoring and modeling” *Energy & Buildings* Vol 119. Pag: 256-266. ISSN: 0378-7788.

J. Terés Zubiaga, C. Escudero, C. García Gafaro, J.M. Sala. (2015) “Methodology for evaluating the energy renovation effects on the thermal performance of social housing

buildings: monitoring study and grey box model development" *Energy & Buildings* Vol 102. Pag: 390-405. Impacto 2013: Q1 en "Construction and Building Technology" // Q1 en "Civil Engineering"

J. Terés Zubiaga, A. Campos-Celador, I. González-Pino, C. Escudero-Revilla (2015) "Energy and economic assessment of the envelope retrofitting in residential buildings in Northern Spain" *Energy & Buildings*. Vol 86. Pag: 194-202. Impacto 2013: Q1 en "Construction and Building Technology" // Q1 en "Civil Engineering"

A. Campos-Celador, G. Diarce, **J. Terés Zubiaga**, Tatyana V. Bandos, Ane M. García-Romero, L.M. López, J.M. Sala. (2014) "Design of a Finned Plate Latent Heat Thermal Energy Storage System for Domestic Applications". *Energy Procedia*, Vol 48, Pag: 300-308.

I. González Pino, Á. Campos-Celador, E. Pérez-Iribarren, **J. Terés Zubiaga**, J.M. Sala Lizarraga (2014) "Parametric Study of the Operational and Economic Feasibility of Stirling Microcogeneration Devices in Spain" *Applied Thermal Engineering*, Vol 71, Pag. 821-829 Impacto 2013: Q1 en "Thermodynamics" // Q1 en "Mechanical Engineering" // Q1 en "Mechanics"

J. Terés Zubiaga, K. Martín, A. Erkoreka, J. M. Sala (2013) "Field assessment of thermal behaviour of Social Housing apartments in Bilbao (Northern Spain)" *Energy & Buildings*. Vol 67. Pag: 118-135. Impacto 2013: Q1 en "Construction and Building Technology" // Q1 en "Civil Engineering"

J. Terés Zubiaga, S. C. Jansen, P. G. Luscuere, J. M. Sala (2013) "Dynamic exergy analysis of energy systems for a social dwelling and exergy based system improvement" *Energy & Buildings*. Vol 64. Pag: 359-371. Impacto 2013: Q1 en "Construction and Building Technology" // Q1 en "Civil Engineering"

S. C. Jansen, **J. Terés Zubiaga**, P. G. Luscuere (2012) "The exergy approach for evaluating and developing an energy system for a social dwelling". *Energy & Buildings*. Vol 55. Pag: 693-703. Impacto 2013: Q1 en "Construction and Building Technology" // Q1 en "Civil Engineering"

J. Terés Zubiaga, L. Arrien Elguezabal, J. M. Sala Lizarraga (2013) "Panorámica de la rehabilitación en Europa. Normativa e incentivos en 4 países de la U.E.: Inglaterra, Alemania, Francia y España". *Revista de Edificación*. N 41-42. Pag: 124-135.

V. J. Del Campo Díaz, **J. Terés Zubiaga**, (2012) "Experimental Investigation of Demand Controlled Ventilation Systems: a Suitable Alternative for Controlling Ventilation in Dwellings." *Journal of Energy and Power Engineering*, Volume 6, N 10 (2012). Pag. 1553-1559.

V. J. Del Campo Díaz, **J. Terés Zubiaga**, (2010) "Ventilación en Viviendas: El reto de una ventilación eficaz y Eficiente". *Revista de Edificación*. N 39-40. Pag: 120-128. ISSN: 1138-5596.

C.2. Research projects and grants

Título del proyecto: Investigación de técnicas de monitorización de edificios ocupados para su caracterización térmica y de la metodología para identificar sus indicadores clave de rendimiento - Investigation of monitoring techniques of occupied buildings for their thermal characterization and methodology to identify their key performance indicators (MONITHERM)

Entidad financiadora: Ministerio de Ciencia, Innovación y Universidades

Duración: 01/01/2019-31/12/2021

Financiación recibida: 133.000€

Investigador principal: Aitor Erkoreka González, Estibaliz Pérez Iribarren

Título del proyecto: “Modificación de los hábitos de consumo de uso y consumo de la energía de la vivienda mediante la visualización de datos en función del contexto climático – MODIF-HABIT”

Entidad financiadora: Ministerio de Economía y Competitividad (MINECO)

Duración: 01/01/2018-31/12/2020

Financiación recibida: 112.530€

Investigador principal: Fco. Javier Neila González

Título del proyecto: Implementación de Técnicas de calibración y optimización multiobjetivo automatizados aplicado a simulación de modelos energéticos en edificios monitorizados energéticamente

Entidad financiadora: Ministerio de Economía y Competitividad (MINECO)

Duración: 01/01/2016-31/12/2018

Financiación recibida: 103.000€

Investigador principal: Aitor Erkoreka González, Luis A. del Portillo Valdés

Título del proyecto: Desarrollo del Área Térmica del Laboratorio de Control de Calidad en la Edificación del Gobierno Vasco.

Entidad financiadora: Gobierno Vasco

Duración: desde: 01/03/2013 hasta: 30/04/2016

Cuantía de la subvención: 103.657,73

Investigador responsable: José María Sala Lizarraga (UPV-EHU)

Número de investigadores participantes: 19

Título del proyecto: Affordable and Adaptable Public Buildings through Energy Efficient Retrofitting

Entidad financiadora: Unión Europea

Duración, desde: 01/09/2013 hasta: 31/08/2017

Cuantía de la subvención: 500.000,00

Investigador responsable: Luis A. del Portillo Valdés (UPV-EHU)

Número de investigadores participantes: 8

Título del proyecto: Desarrollo del Área Térmica del Laboratorio de Control de Calidad en la Edificación del Gobierno Vasco.

Entidad financiadora: Gobierno Vasco

Duración, desde: 01/01/2012 hasta: 31/12/2012

Cuantía de la subvención: 222.400,00

Investigador responsable: José María Sala Lizarraga (UPV-EHU)

Número de investigadores participantes: 19

C.3. Contracts

Título: Affordable and Adaptable public buildings through energy efficient retrofitting (A2PBEER)

Tipo de Contrato: Proyecto de Investigación

Categoría: Investigador contratado doctor (Dedicación completa)

Entidad financiadora: Unión Europea

Entidad contratante: Universidad del País Vasco

Investigador principal: Luis A. del Portillo Valdés

Fecha de Inicio: 5-Abril-2014 **Fecha final:** 8-October-2014

C.5, C.6, C.7... (e. g., Institutional responsibilities, memberships of scientific societies...)

Member of IEA-EBC Annex 56 “*Cost Effective Energy and Carbon Emissions Optimization in Building Renovation*”

Member of IEA-EBC Annex 75 “*Cost-effective Building Renovation at District Level Combining Energy Efficiency & Renewables*” and coleader in STB