



Simon Pezzutto

EURAC Research
Institute for Renewable Energy
Senior Researcher
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Main fields of activity

- Project management
- Energy economics
- Smart cities
- Heating and cooling
- R&D funding

Personal data

- Surname(s) / First name(s): Pezzutto Simon
- Nationality: Italian
- Date of birth: May 31, 1985

Professional experience

- Since July 2015: Institute for Renewable Energy of the European Academy of Bozen/Bolzano - Italy, Senior Researcher
- February 2011 - June 2015: Institute for Renewable Energy of the European Academy of Bozen/Bolzano - Italy, Researcher
- July - October 2010: Institute for Renewable Energy of the European Academy of Bozen/Bolzano - Italy, Internship, Italian country report of the international project "IEA ANNEX 34"
- July - September 2006: Ministry of Environment - Autonomous Province of South Tyrol, Bozen/Bolzano - Italy, Internship in the Department of Air and Noise, technical analysis
- February 2004 - December 2014: Neubruch S.a.s, Bozen/Bolzano - Italy, co-owner and management, real estate management
- August - September 2003: Tecnocarbur S.r.l., Wien - Austria, Bozen/Bolzano - Italy, Internship in start-up for e-mobility/electric vehicles, market entry strategy, technical development

Education and training

- University of Natural Resources & Applied Life Sciences, Wien - Austria, Engineering PhD program (PhD, 2010 - 2014)
- European School of Economics, Madrid - Spain, Studies of International Marketing
- Czech University of Life Sciences, Prague - Czech Republic, Double Degree Programme (Msc, 2009 - 2010), State exam June 2010
- University of Natural Resources & Applied Life Sciences, Vienna - Austria (2005 - 2010), Master of Natural Resources Management and Ecological Engineering (Dipl.-Ing.). Equivalent in Italy to "Ingegneria per l'ambiente e il territorio". Bachelor in Environment and Bio-Resources Management
- University of Technology, Genova - Italy (2004 - 2005)
- Wissenschaftliches Realgymnasium Bozen / Liceo scientifico di Bolzano

Main projects

2016-ongoing: H2020 HotMaps. Heating and Cooling: Open Source Tool for Mapping and Planning of Energy Systems

Project management – WP2 Leader

- 2018-ongoing: CirCo. Multi valorization of silverskin, a residue of the coffee roasting industry
Project management – WP5 Leader
- 2017-ongoing: H2020 HEART. Holistic Energy and Architectural Retrofit Toolkit
- 2017-ongoing: H2020 STARDUST. Holistic and Integrated Urban Model for Smart Cities

Personal skills and competences

- Mother tongue(s): German and Italian
- Other language(s): English (fluent), Spanish (basics), Czech (basics)
- Member of the INTERNATIONAL ASSOCIATION for ENERGY ECONOMICS (2013-2015)

Personal interests

- Marathon - Running at international level
- Other interests: Skiing, Tennis, Jogging, International Politics, History, Traveling

Computer skills

- Proficiency in MS Office, SPSS, AUTOCAD

Further information

- 2003: German and Italian language exam for the province of Bolzano Level "A"
- Driving license "B"
- IELTS

Scientific contributions in peer reviewed journals

- S. Zambotti, S. Pezzutto, A. Bisello, What to expect from buildings' deep energy retrofit? A multiple benefits approach on European smart city projects, *Laborest*, 17, 59-63, December 2018. DOI: 10.19254/LaborEst.17.10
- S. Pezzutto, G. Grilli, S. Zambotti, S. Dunjic, Forecasting Electricity Market Price for End Users in EU28 until 2020—Main Factors of Influence, *Energies*, 11(6), 1460, June 2018 <https://doi.org/10.3390/en11061460>
- S. Zambotti, S. Pezzutto, A. Bisello, Multiple benefits from buildings refurbishment: evidence from Smart City Projects in EU, *Smart Innovation, Systems and Technologies*, Vol. 100, Springer, Cham, 157-164, https://doi.org/10.1007/978-3-319-92099-3_19
- S. Pezzutto, G. Grilli, S. Zambotti, European Heat Pump Market Analysis: Assessment of Barriers and Drivers, *International Journal of Contemporary ENERGY*, Vol. 3, No. 2, November 2017. DOI: 10.14621/ce.20170207
- S. Pezzutto, M. De Felice, R. Fazeli, Kranzl L., S. Zambotti, Status Quo of the Air- Conditioning Market in Europe: Assessment of the Building Stock, *Energies* 10(9), 1253, August 2017, DOI: 10.3390/en10091253
- S. Pezzutto, R. Fazeli, M. De Felice, Smart City Projects Implementation in Europe: Assessment of Barriers and Drivers, *International Journal of Contemporary ENERGY*, Vol. 2, No. 2, November 2016. DOI: 10.14621/ce.20160207
- R. Bointner, S. Pezzutto, G. Grilli, W. Sparber, Financing innovations for the renewable energy transition in Europe, *Energies* 9(12), 990, pp. 1-16, November 2016, DOI: 10.3390/en9120990
- S. Dunjic, S. Pezzutto, A. Zubaryeva, Renewable energy development trends in the Western Balkans, *Renewable and Sustainable Energy Reviews*, Volume 65, pp. 1026- 1032, November 2016, DOI:10.1016/j.rser.2016.05.051
- R. Hastik, C. Walzer, C. Haida, G. Garegnani, S. Pezzutto, B. Abegg, C. Geitner, Using the Footprint Approach to Examine the Potentials and Impacts of Renewable Energy Sources in the European Alps, *Mountain Research and Development*, 36(2):130-140, May 2016, DOI: <http://dx.doi.org/10.1659/MRD-JOURNAL-D-15-0007>
- S. Pezzutto, R. Fazeli, M. De Felice, W. Sparber, Future development of the air- conditioning market in Europe: an outlook until 2020, *WIREs Energy and Environment*, April 2016, DOI: 10.1002/wene.210
- S. Pezzutto, Analysis of the Space Heating and Cooling Market in Europe, *International Journal of Contemporary Energy*, Vol. 2, No. 1 (2016). DOI: 10.14621/ce.20160100, ISSN 2363-6440
- R. Bointner, S. Pezzutto, W. Sparber, Scenarios of public energy research and development expenditures: financing energy innovation in Europe, *WIREs Energy and Environment*, February 2016, DOI: 10.1002/wene.200
- S. Pezzutto, A. Toleikytė, M. De Felice, Assessment of the Space Heating and Cooling Market in the EU28: A Comparison between EU15 and EU13 Member

States, International Journal of Contemporary Energy, Vol. 1, No. 2 (2015).
DOI: 10.14621/ce.20150105, ISSN 2363-6440

Conference contributions (with publication in the conference proceedings)

- S. Zambotti, I-Tsung Tsai, S. Pezzutto, A FRAMEWORK PROCESS FOR REGIONAL VARIATION AND IMPLICATIONS FOR URBAN SUSTAINABILITY, The 9th International Energy Conference REMOO 2018, Venice 29-31 May
- S. Zambotti, S. Pezzutto, A. Bisello, "Multiple benefits from buildings refurbishment: evidence from Smart City Projects in EU" New Metropolitan Perspectives 2018, Reggio Calabria 23-25 May
- S. Pezzutto, G. Grilli, S. Zambotti, European Heat Pump Market Analysis: Assessment of Barriers and Drivers, 7th International Conference REMOO-2017, Venice, Italy, 12 May 2017
- S. Pezzutto, F. Hass, D. Exner, Europe's Building Stock and its Energy Demand: a Comparison between Austria and Italy, Smart and Sustainable Planning for Cities and Regions 2017, Bolzano/Bozen, Italy, 23 März 2017
- S. Pezzutto, R. Fazeli, M. De Felice, "Smart city projects implementation in Europe: How to overcome barriers by drivers", 6th International Conference REMOO-2016 "Science and Engineering for Reliable Energy", Budva, Montenegro, 18-20 May 2016
- S. Pezzutto, F. Mosannenzadeh, G. Grilli, W. Sparber, European Union research and Development Funding on Smart Cities and their Impact on Climate and Energy Goals, Smart and Sustainable Planning for Cities and Regions 2015, Bolzano/Bozen, Italy, 19 November 2015
- S. Pezzutto, A. Toleikytė, M. De Felice, Assessment of the Space Heating and Cooling Market in the EU28: A Comparison between EU15 and EU13 Member States, 5th International Conference REMOO-2015 "Technological, Modelling and Experimental Achievements in Energy Generation Systems, Budva, Montenegro, 23-24 September 2015
- A. Bisello, F. Mosannenzadeh, S. Pezzutto, G. Stellin, D. Vettorato, Co-benefits of Smart and Sustainable Energy District Projects: analyzing, defining and suggesting an assessment framework, RGS Annual International Conference 2015, Exeter, 1-4 September 2015
- Mosannenzadeh, S. Pezzutto, A. Bisello, C. Diamantini, G. Stellin, D. Vettorato, SMART ENERGY CITIES: a decision support methodology to overcome barriers to implementation of smart and sustainable energy projects in urban areas, AESOP Annual Congress 2015, Prague - Czech Republic, July 2015
- W. Sparber, S. Pezzutto, Potential and actual space heating and cooling consumption in Europe, RHC Annual Event 2014, Brussels - Belgium, May 2014
- S. Pezzutto, W. Sparber, R. Fedrizzi, Analysis of the space heating and cooling market in Europe, 3rd international PhD-Day of the AAEE student Chapter, Linz - Austria, April 2014

- W. Sparber, S. Pezzutto, Hybrid Systems and Heat Pumps, 4th European Conference on Renewable Heating and Cooling, Dublin - Ireland, April 2013
- S. Pezzutto, W. Sparber, 20-20-20 targets contribution and EU R&D funding for renewable heating and cooling, 2nd international PhD-Day of the AAEE student Chapter, Vienna - Austria, March 2013
- S. Pezzutto, W. Sparber, R. Fedrizzi, Assessment of energy savings potential and EU funding for heating and cooling, Renewable Energy World Europe Conference & Expo, Cologne - Germany, June 2012
- S. Pezzutto, Analysis of the thermal heating and cooling market in Europe, 1st international PhD-Day of the AAEE student Chapter, Vienna - Austria, March 2012

Book chapters

- S. Zambotti, S. Pezzutto, A. Bisello, Multiple benefits from buildings refurbishment: evidence from Smart City Projects in EU, Smart Innovation, Systems and Technologies, Springer, May 2018
- S. Pezzutto, F. Hass, D. Exner, Europe's Building Stock and its Energy Demand: a Comparison between Austria and Italy, Green Energy and Technology, Springer, April 2018
- S. Pezzutto, F. Mosannenzadeh, G. Grilli, W. Sparber, European Union research and Development Funding on Smart Cities and their Impact on Climate and Energy Goals, Green Energy and Technology, Springer, November 2016

Project deliverables contributions

- P. Zambelli, S. Pezzutto, G. Garegnani, A. Pignatelli, L. Lehtsalu, L. Kranzl, Fritz S., Data Management Plan, Hotmaps, 2018
- GRETA – D5.2.1: Report on the test of the integration of NSGE into Energy Plans for the selected Pilot Areas, 2018
- GRETA – D5.1.1: A spatial explicit assessment of the economic and financial feasibility of Near Surface Geothermal Energy, 2018
- S. Pezzutto, S. Zambotti, S. Croce, P. Zambelli, G. Garegnani, C. Scaramuzzino, R. Pascual Pascuas, A. Zubaryeva, F. Haas, D. Exner, A. Müller, M. Hartner, T. Fleiter, A. Klinger, M. Kühnbach, P. Manz, S. Marwitz, M. Rehfeldt, J. Steinbach, E. Popovski, H2020 Hotmaps D2.3 WP2 Report – Open Data Set for the EU28, 2018
- S. Pezzutto, R. Vaccaro, P. Zambelli, F. Mosannenzadeh, A. Bisello, D. Vettorato, Deliverable 2.1: SWOT analysis report of the refined concept/baseline, FP7 SINFONIA Project, 2015
- J. Balest, G. Curetti, G. Garegnani, G. Grilli, J. Gros, S. Pezzutto, D. Vettorato, P. Zambelli, A. Paletto, I. De Meo, C. Geitner, R. Hastik, S. Leduc, S. Bertin, F. Miotello, E. Zangrando, D. Pettenella, A. Portaccio, A. Petrinjak, R. Pisek, A. Poljanec, N. Kuenzer, M. Badura, C. Walzer, Renewable Energy and Ecosystem Services in the Alps – status quo and

trade-off between renewable energy expansion and ecosystem services valorization, Alpine Space Project recharge green WP4 Report, 2015

- S. Birchall, I. Wallis, D. Churcher, S. Pezzutto, R. Fedrizzi, E. Causse, Deliverable 2.1a: Survey on the Energy Needs and Architectural Features of the EU Building Stock, FP7 iNSPiRe Project