

CURRICULUM VITAE

SIMON KONTOYIANNIDIS

M.Sc. Environmental Physicist

ATHENS

March 2017

SIMON KONTOYIANNIDIS M.Sc.

Environmental Physicist, Research Assistant

Group Energy Conservation (www.energycon.org)

Institute for Environmental Research & Sustainable Development (www.meteo.noa.gr)

National Observatory of Athens (www.noa.gr)

I. Metaxa & Vas. Pavlou, GR 152 36 P. Penteli, Athens, Hellas

Tel.: +30- 210-8109145, Fax: +30-210-8103236, Email: skonto@noa.gr

Place of birth: Wuppertal - Germany, 12-11-1966

Marital status: Married, Two children

RESEARCH INTERESTS & ACCOMPLISHMENTS

Developer of the official software used for building energy audits and labelling (TEE-KENAK) in Greece. Programming and multimedia software development of 22 applications. Development of web pages and on-line applications. Research and Development in the areas of renewable energy sources, energy conservation, thermal and solar building applications, numerical modelling of thermal energy systems and building thermal simulations, solar cooling, solar radiation and meteorological measurements. Responsible for the maintenance of the Penteli weather station and for the calibration of meteorological instruments.

EDUCATION

Master of Science (M.Sc.)	Environmental Physics, National Kapodistrian University of Athens Department of Applied Physics	March 1993
Bachelor of Science	Physics National Kapodistrian University of Athens Department of Physics	March 1990

FOREIGN LANGUAGES

- English
- German

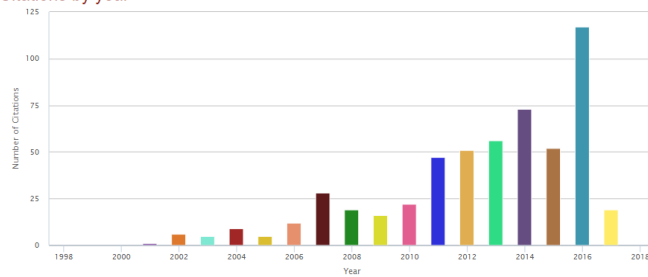
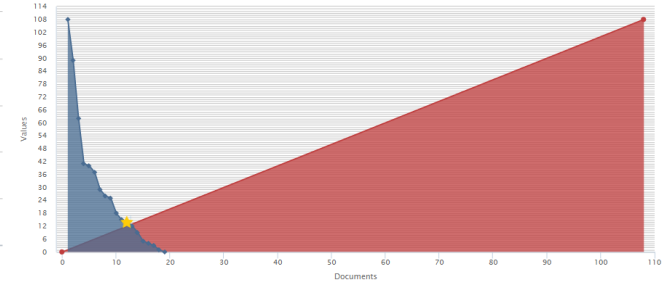
CONTINUING EDUCATION

- Energy Conservation in Transports, Hellenic Productivity Center, 1992
- Bioclimatic Architecture and Solar Systems, CIENE, 1993 (SAVE Project)
- Energy Conservation in Buildings, CIENE, May 1994 (SAVE Project)
- Solar Energy and Energy Conservation in Urban Buildings, CIENE, November 1994 (SAVE Project)
- Training and Education in the Energy Field, CIENE, May 1995 (SAVE Project)
- Energy Conservation in Office Buildings, CIENE, May 1995 (SAVE Project)
- Passive Cooling of Buildings, CIENE, June 1995 (SAVE Project)

PUBLICATIONS - SOFTWARE & eAPPLICATIONS

International Journals:	13	Hellenic Journals & Technical Magazines:	6
Scientific Publications:	16	Technical Reports:	46
Conferences & Symposiums:	45	Books:	1
Software & eApplications	22	Theses:	2

Citations by year

This author's *h*-index is 12The *h*-index is based upon the number of documents and number of citations.

PROFESSIONAL EXPERIENCE

1992 – 1995

- **External Research Scientist**

- **Department of Applied Physics - University of Athens**

- Participant in various Research and Scientific European and National projects, as a member of the GRoup Building Energy Studies. Laboratory Instructor. Supervisor of Diploma Theses.

- **Software Developer**

- Developer of web pages for private companies

- **Research Scientist**

- **Hellenic Army (period 5/95 - 8/95)**

- Software developer, in Software Department, of Hellenic Army in Xanthi

- **Associate**

- **Department of Solid State Physics - University of Athens**

- Laboratory Instructor.

- **Associate**

- **CIENE - University of Athens, 1993**

- Organizer of the seminar "Energy Conservation in School Buildings - Solar Systems" (1993)

1996 – 2001

- **External Research Scientist**

- **Institute of Meteorology & Physics of Atmospheric Environment (IMPAE) - National Observatory of Athens**

- Participant in various Research and Scientific European and National projects, as a member of the GRoup Energy Conservation.

- **Associate**

- **Technological Educational Institute of Piraeus (period 1998-2000).**

- Developer of 4 multimedia packages, in the framework of Distance learning programme on "Conventional & Renewable Energy Sources"

- **Software Developer**

- Developer of web pages for private companies

- **Associate**

- **Hellenic Productivity Center 1996**

- Developer of Educational Material.

2001 – 2015

- **Research Assistant**

Institute for Environmental Research & Sustainable Development (IERSD, ex-IMPAE) - National Observatory of Athens

Participant in various Research and Scientific European projects, as a member of the GRoup Energy Conservation. Development of project and GREC activities web pages for the promotion of scientific results to third parties. Development of all electronic publications and multimedia CDROMs for GREC publications. Maintenance of the Penteli weather station and web page for the presentation of on-line measurements to the public since 2004; Quality control and processing of meteorological data from Thessio weather station used to prepare NOA Meteorological Bulletin. Responsible for the calibration of meteorological instruments for third parties and IERSD since 2004. Maintenance of the Hellenic EPIQR software that is commercially available from GREC. Technical support to all GREC software to third parties. Staffed the participation of IERSD in the International Expos Climatherm 2004, 2006 & 2008, ENERGYRES 2007 & 2008.

2016 –

- **Research Assistant - Consultant**

Ministry of Infrastructure and Transport – Minister's Office

RESEARCH EXPERIENCE

Participant in the following research, demonstration and technical projects with the corresponding affiliations:

UNIVERSITY OF ATHENS

- **RESEARCH PROGRAMMES**

1992 - 1995 JOULE, DG XII for Science, Research and Development, European Commission

TITLE: PASCOOL, Passive Cooling for Buildings (JOU2CT92-0013)

PARTICIPANTS: University of Athens, CRES, NOA, and various organisations from Italy, Spain, France, Portugal, Switzerland, England, Belgium.

1996 - 1998 JOULE, DG XII for Science, Research and Development, European Commission

TITLE: POLIS: Urban Planning Research Actions to Improve Solar Access, Passive Cooling and Microclimate (JOR-CT95-0024)

PARTICIPANTS: BRE, University of Athens, University of Liege, University of Seville

CIENE, UNIVERSITY OF ATHENS

- **SCIENTIFIC PROJECTS**

1993 - 1994 SAVE, DG XVII for Energy, European Commission

TITLE: PASSIVE COOLING - Creation of an Educational Structure on the Energy Efficiency of Cooling Systems and Techniques for Buildings (XVII/4.1031/93-071)

PARTICIPANTS: Joint European Programme. Central Institution for Energy Efficiency Education, Universities and other organisations from several European countries.

NATIONAL OBSERVATORY OF ATHENS

- **RESEARCH PROGRAMMES**

1996 - 1998 JOULE, DG XII for Science, Research and Development, European Commission

TITLE: SOLAR CONTROL - Integrated Approach to Solar Control Techniques (JOR3-CT96-0113)

PARTICIPANTS: NOA, Conphoebus-I, BRE-GB, Univ. of Seville-E, VTT-FN, TNO-NL, Meletitiki, IBP-G., CEA-F, Pirlington-GB, Univ. of Ljubjana-SL.

1997 - 2000 JOULE, DG XII for Science, Research and Development, European Commission

TITLE: SOLHEATCOOL - Study and Development of Heating/Cooling Systems Using Renewable Energy (JOR3-CT97-0181)

PARTICIPANTS: NOA, COSTIC, D.F. Liedelt Productions & Vertriebs, Jacques Giordano Industries S.A., ZAE Bayern.

2001 - 2004 GROWTH, DG for Research (DG XII), European Commission

TITLE: INVESTIMMO - A Decision-making Tool for Long-term Efficient Investment

Strategies in Housing Maintenance and Refurbishment (GIRD-CT-2000-00371)

PARTICIPANTS: NOA, Hellenic Ministry of State, CSTB & LF – France, EPFL, CUEH & ESTIA sarl – Switzerland, FhG/IBP & VdW – Germany, DIPARC & ENVIPARK – Italy, SBI & SBS – Denmark, KAPE & UZ – Poland.

2002 - 2003 Fifth Framework, DG for Research (DG XII), European Commission

TITLE : SACE - Solar Air Conditioning in Europe (NNE5/2001/00025)

PARTICIPANTS: NOA, TU Delft – Holland, FhG-ISE – Germany, Joanneum – Austria, Technion Haifa – Israel.

- SCIENTIFIC PROJECTS**

2001-2002 ELVAL – Hellenic Aluminium Industry S.A.

TITLE: ELVAL I - Evaluation of aluminium wall cladding on building facades

PARTICIPANTS: National Observatory of Athens

2002-2003 ALTENER, DG for Energy(DG XVII), European Commission

TITLE: XENIOS - Development of an audit tool for Hotel buildings and the promotion of RUE and RES (AL 4.1030/Z/01-135/2001)

PARTICIPANTS: National Observatory of Athens, Terra Nova Ltd - Hellas, CSTB - France, CAATB - Spain, CONPHOEBUS - Italy, CALVIA - Spain, Municipality of Kallithea Rhodes - Hellas, GEDISA - Spain, AHPM - Spain, D.G. D'Energia - Spain.

2002-2004 ALTENER, DG for Energy(DG XVII), European Commission

TITLE: EPA-ED Development of and preparations for the implementation of an Energy Performance Assessment Method for Existing Dwellings to stimulate RUE and the use of RES in the existing dwelling stock in Member States (AL 4.1030/Z/01-142/2001)

PARTICIPANTS: National Observatory of Athens, Damen Consultants BV (Holland), OTB (Holland), DBUR (Denmark), Austrian Institute for Applied Ecology (Austria).

2005-2007 Intelligent Energy – Europe, DG for Energy (DG XVII), European Commission

TITLE: EPA-NR Energy Performance Assessment for Existing Non Residential Buildings (EIE/04/125/S07.38651)

PARTICIPANTS: National Observatory of Athens, Damen Consultants BV (Holland), Arsenal (Austria), Austrian Institute for Applied Ecology (Austria), DBUR (Denmark), CSTB (France), Fraunhofer-IBP (Germany), ENEA (Italy), TNO (Netherlands).

2006-2009 Intelligent Energy – Europe, DG for Energy (DG XVII), European Commission

TITLE: DATAMINE Collecting Data from Energy Certification to Monitor Performance Indicators for New and Existing Buildings (EIE/05/097/SI2.419651)

PARTICIPANTS: National Observatory of Athens, Institut Wohnen und Umwelt GmbH (Germany), Narodowa Agencja Poszanowania Energii S.A. (Poland), Energy for Sustainable Development Ltd (UK), EBM-consult BV (Netherlands), Politecnico di Torino (Italy), Flemish Institute for technological research (Belgium), Austrian Energy Agency (Austria), Building and Civil Engineering Institute ZRMK (Slovenia), Ecofys ema SL (Spain), Energy Action Limited (Ireland), Sofia Energy Agency (Bulgaria).

2009-2012 Energy Intelligent Europe

TITLE: TABULA Typology Approach for Building Stock Energy Assessment (EIE/08/495/SI2.528393)

PARTICIPANTS: National Observatory of Athens, Institut Wohnen und Umwelt/ Institute for Housing and Environment (Germany), Building and Civil Engineering Institute ZRMK (Slovenia), Politecnico di Torino - Department of Energetics (Italy), French Energy and Environment Agency (France), Energy Action Limited (Ireland), Flemish Institute of Technological Research (Belgium), Narodowa Agencja Poszanowania Energii SA (Poland), Austrian Energy Agency (Bulgaria), Mälardalens University (Sweden), STU-K (Czech Republic), Danish Building Research Institute (Denmark)

2010-2013 Technical Chamber of Greece

TITLE: TEE-KENAK - Software Development for the Implementation of the National Regulation on the Energy Performance of Buildings

PARTICIPANTS: National Observatory of Athens

2012-2014 FP7 -Small or medium-scale focused research project (STREP)

TITLE: ISES Intelligent Services for Energy-Efficient Design and Life Cycle Simulation (288819/ FP7-ICT-2011-7)

PARTICIPANTS: National Observatory of Athens, Technische Universität Dresden (Germany), Olof Granlund Oy (Finland), University of Ljubljana (Slovenia), SOFiSTiK Hellas S.A. (Greece), Nyskopunarmidstod Islands (Iceland), Leonhardt, Andrä und Partner (Germany), Trimco d.d. (Slovenia)

2013-2014 Ministry of Environment Energy and Climate Change

TITLE: EPC Stat – Development of on-line application for statistical analysis of the Energy Performance Certification

PARTICIPANTS: National Observatory of Athens

2013-2016 Intelligent Energy – Europe, DG for Energy (DG XVII), European Commission

TITLE: EPISCOPE (EY) - Energy Performance Indicator Tracking Schemes for the Continuous Optimisation of Refurbishment Processes in European Housing Stocks (IEE/12/695/SI2.644739)

PARTICIPANTS: National Observatory of Athens, Institut Wohnen und Umwelt, Institute for Housing and Environment (Germany), Buildings Performance Institute Europe (Belgium), Building and Civil Engineering Institute ZRMK (Slovenia), Danish Building Research Institute, Aalborg University (Denmark), Austrian Energy Agency (Austria), Building Research Establishment Ltd (United Kingdom), Flemish Institute for Technological Research (Belgium), Politecnico di Torino - Department of Energy (Italy), STU-K (Czech Republic), Energy Action Limited (Ireland), Budapest University of Technology and Economics (Hungary), Valencian Institute of Building (Spain), Cyprus University of Technology (Cyprus), Delft University of Technology (Netherlands), Pouget Consultants (France), Norwegian University of Science and Technology (Norway)

COMPUTING EXPERIENCE

- **Programming**

- .NET Framework,
- Integrated Development Environment (*VS2010*),
- Hypertext Preprocessor,
- Active Server Pages,
- Multimedia platform (*FL*),
- ActionScript 3.0,
- JavaScript Flash language (*JSFL*),
- Web Development Application (*DW*),
- Application Deployment (*IS12*),
- TRNSYS

- **Software Development**

- 2001 **SOLHEATCOOL - TRN-DISPLAY**. A tool for data base management used to review the results of hourly simulations using TRNSYS. A total of 20000 scenarios were investigated for 3 European locations, different types of solar collectors, collecting surface area and geometry, different building typologies (heavy and light thermal mass) and different system operating conditions of the absorption heat pump and the sub-floor distribution system
- 2003 **SACE**. Solar Air Conditioning in Europe. Overview of solar AC applications throughout Europe.
- 2004 **XENIOS - REFURBISHMENT OF HOTELS**. European diagnosis and decision making method for the refurbishment of hotels. The user can follow the audit procedures to collect data and assess the existing condition, evaluate different interventions (on the building envelope and HVAC installations) for energy and water conservation, improve the indoor environmental quality, assess the environmental impact from energy consumption, and come up with a budget and technical report, in a short time frame
- 2004 **EPA-ED**. Development of and preparations for the implementation of an Energy Performance Assessment Method for Existing Dwellings to stimulate RUE and the use of RES in the existing dwelling stock in Member States
- 2010 - today **TEE KENAK - ENERGY AUDIT**. Official software for Energy Performance Certification of Buildings, used by the Energy Auditors. *Over 400000 have been issued. Latest update on 27/03/2012*
- TEE KENAK - ENERGY STUDY**. Official software for Energy Study. *Latest update on 27/03/2012*
- NOMIS**. Standalone calculation engine for the certified software for EPC as well for the electronic database (www.buildingcert.gr) developed by YPEKA for issuing and handling the official EPC, and building audits, according to the EPBD provisions. Latest update on 27/03/2012
- Electronic forms for Inspection Reports of Boilers, Heating Installations and Air-Conditioning Systems

- **Software Adaptation**

- 2000 **EPIQR - Refurbishment of Residential Buildings. Hellenic version of EPIQR** (*Energy Performance Indoor environmental Quality Retrofit*), a European diagnosis and decision making method for apartment building refurbishment. The user can follow the audit procedures to collect data and assess the existing condition, evaluate different interventions (on the building envelope and electromechanical installations) for energy conservation and indoor environmental quality, and come up with a budget and technical report, all within two days.
- 2007 **EPA-NR. Hellenic version**. Energy Performance Assessment Method For Existing Non-Residential

Buildings. Software in line with the Energy Performance Directive for Buildings (EPBD) established by the E.C. and reflect the final draft CEN-standards

- **Multimedia Development**

- 2010 - 2013 **22 multimedia CD-ROM** applications presenting the results of various European projects.
- DAYLIGHT TECHNIQUES IN BUILDINGS – REFERENCE HANDBOOK (CD-ROM)
 - DAYLIGHT TECHNIQUES IN BUILDINGS – PRODUCT INFORMATION HANDBOOK (CD-ROM)
 - DAYLIGHT TECHNIQUES IN BUILDINGS – EDUCATIONAL SLIDES (CD-ROM)
 - TOBUS - REFURBISHMENT OF OFFICE BUILDINGS – HELLENIC CASE STUDIES (CD-ROM)
 - EPIQR SOFTWARE REFURBISHMENT OF APARTMENT BUILDINGS – HELLENIC (CD-ROM)
 - EPIQR METHOD – HELLENIC (CD-ROM)
 - REFURBISHMENT OF APARTMENT BUILDINGS – HELLENIC CASE STUDIES (CD-ROM)
 - EPIQR REFURBISHMENT OF APARTMENT BUILDINGS (Educational Version 2.3)
 - TOBUS - RETROFIT OF OFFICE BUILDINGS (CD-ROM)
 - OPERATING ROOMS - CODE OF GOOD PRACTICE (CD-ROM)
 - DESIGN GUIDELINES - SOLAR CONTROL HANDBOOK
 - SHADING COMPONENT DICTIONARY - SOLAR CONTROL HANDBOOK
 - SOLAR CONTROL HANDBOOKS (CD-ROM)
 - SOLHEATCOOL - TRN-DISPLAY & DESIGN GUIDELINES (CD-ROM)
 - SACE - SOLAR AIRCONDITIONING IN EUROPE (CD-ROM)
 - TME 2006 ATHENS (CD-ROM)
 - TME 2000 ATHENS (CD-ROM)
 - XENIOS – SOFTWARE FOR HOTEL REFURBISHMENT (CD-ROM)
 - XENIOS – DISSEMINATION MATERIAL (CD-ROM)
 - INVESTIMMO – ERBAD (CD-ROM)
 - INVESTIMMO – BDAG (CD-ROM)
 - INVESTIMMO – BEIG (CD-ROM)
 - EPA-ED (CD-ROM)
 - EPA-NR (CD-ROM)
 - SOLAR DATA (CD-ROM)
 - eKIA (CD-ROM)

- **Development and Management of online applications**

- 2002 **ELVAL** - Building Energy Performance and Educational Material (*Mediterranean Architectural Competition 2002*)
- 2003 -today **SACE** (*Solar Air-Conditioning in Europe*) Online application for estimation of solar air-conditioning in European buildings
- 2011- today **eKIA** Online application for estimation of energy performance of residential buildings

- **Development and Management of web pages**

- 2001-today **ENERGYCON**. Web page of Group energy conservation
- 2002-today **XENIOS** Audit Tools for Hotel Buildings
- 2004-2006 **ASHRAE REGION AT LARGE** (*American Society Of Heating, Refrigerating & Air Conditioning Engineers Inc.*)
- 2006-today **DATAMINE** (*Collecting DATA from Energy Certification to Monitor Performance Indicators for New and Existing buildings*). Website has been promoted on the interactive BUILD UP web portal of the European Commission, as part of 'Intelligent Energy Europe projects'
- 2007-2012 **ASHRAE Hellenic Chapter** (*AMERICAN SOCIETY OF HEATING, REFRIGERATING & AIR CONDITIONING ENGINEERS INC.*)
- 2011-today **TABULA** Typology Approach for Building Stock Energy Assessment. Hellenic Typology and promotional material.

TEACHING EXPERIENCE

Undergraduate and post-graduate courses at the following Institutions:

- Department of Applied Physics, University of Athens
- Department of Solid State Physics, University of Athens

PARTICIPATION IN SCIENTIFIC COMMITTEES

2010

- Developer of the official Hellenic software for building energy audits and labeling ([TEE-KENAK](#)) as well as the **core calculation engine** for all the certified software for Energy Performance Certifications.
- Member of the technical committee of the Technical Chamber of Greece (TEE) for the development of the Technical Guideline (**TOTEE 20701-3/2010**) “*Climate Data of Hellenic Cities*”, First edition, July 2010.
- Member of the technical committee of the Technical Chamber of Greece (TEE) for the development of the Technical Guideline (**TOTEE 20701-4/2010**) “*Guidelines and Forms for Building Energy Audits, Inspection of Boilers & Heating Installations, and Inspection of Air-Conditioning Systems*”, First edition, July 2010.

2011

- Member of the Technical Committee of the Technical Chamber of Greece (TEE) for the development of the Educational Material for the Training of Energy Auditors, June 2011

2012

- Member of the technical committee of the Technical Chamber of Greece (TEE) for the development of the Technical Guideline (**TOTEE 20701-3/2010**) “*Climate Data of Hellenic Cities*”, Second edition, March 2012
- Member of the technical committee of the Technical Chamber of Greece (TEE) for the development of the Technical Guideline (**TOTEE 20701-4/2010**) “*Guidelines and Forms for Building Energy Audits, Inspection of Boilers & Heating Installations, and Inspection of Air-Conditioning Systems*”, Second edition, March 2012

2 0 1 7

- Member of the Technical Committee of the Technical Chamber of Greece (TEE) for proposals on the revision of the national Regulation on the Energy Efficiency of Buildings (KENAK), Technical Guidelines (**TOTEE 20701**), Upgrade and debugging of the national software for building energy audits, inspections and certification (TEE-KENAK)

SERVICES TO THE PRIVATE SECTOR

In the frame of services to the private sector have undertaken the following activities:

- Calibration of meteorological instruments for third parties and IERSD
- Technical support to all GREC software (EPIQR, XENIOS, EPA-ED, EPA-NR) to third parties

PUBLICATIONS IN SCIENTIFIC JOURNALS

1 9 9 4

- ① I. Tselepidaki, M. Santamouris, D.N. Asimakopoulos and S. Kontoyiannidis
On the Variability of Cooling Degree Days in an Urban Environment. Application to Athens, Greece.
Energy & Buildings, 21, p. 93-99 (1994).

1 9 9 9

- ② A.A. Argiriou, S. Lykoudis, S. Kontogiannidis, C.A. Balaras, D.N. Asimakopoulos, M. Petrakis, P. Kassomenos
Comparison of Methodologies for TMY Generation Using 20 Years Data for Athens, Greece.
Solar Energy, 66, 33-45, (1999).

2 0 0 4

- ③ A.A. Argiriou, C.A. Balaras, S. Kontoyiannidis, E. Michel
Numerical Simulation and Performance Assessment of a Low Capacity Solar Assisted Absorption Heat Pump Coupled with a Sub-Floor System
Solar Energy, in press, (2004).

2 0 0 5

- ④ C.A. Balaras, K. Droutsas, E. Dascalaki, S. Kontoyiannidis
Heating Energy Consumption and Resulting Environmental Impact of European Apartment Buildings
Energy & Buildings, 37, 429-442, (2005).

- ⑤ C.A. Balaras, K. Droutsas, E. Dascalaki, S. Kontoyiannidis
Deterioration of European Apartment Buildings
Energy & Buildings, 37, 515-527, (2005).
- ⑥ A.A. Argiriou, C.A. Balaras, S. Kontoyiannidis, E. Michel
Numerical Simulation and Performance Assessment of a Low Capacity Solar Assisted Absorption
Heat Pump Coupled with a Sub-Floor System
Solar Energy, Vol. 79, No 3, p. 290-301, (2005).
Ranked No 20 (July-September 2005) in the ScienceDirect TOP25 Hottest Articles.

2010

- ⑦ E. Dascalaki, P. Droutsas, A. Gaglia, S. Kontoyiannidis and C.A. Balaras, Data Collection and Analysis of the Building Stock and its Energy Performance – An Example for Hellenic Buildings, **Energy & Buildings**, Vol. 42, No 8, p. 1231-1237, (2010).

2011

- ⑧ E. G. Dascalaki, K. G. Droutsas, C.A. Balaras and S. Kontoyiannidis, Building Typologies as a Tool for Assessing the Energy Performance of Residential Buildings – A Case Study for the Hellenic Building Stock, **Energy & Buildings**, Vol. 43, No 12, p. 3400-3409, 2011.

2012

- ⑨ E. G. Dascalaki, C.A. Balaras, A.G. Gaglia, K. G. Droutsas and S. Kontoyiannidis,
Energy performance of buildings—EPBD in Greece,
Energy Policy 45, p. 467 - 477, 2012.

2013

- ⑩ C. A. Balaras, E. G. Dascalaki, P. Droutsas, and S. Kontoyiannidis,
Hellenic renewable energy policies and energy performance of residential buildings using solar collectors for domestic hot water production in Greece
J. Renewable Sustainable Energy 5 (4), DOI 10.1063/1.4813066, 12 pages, 2013.
- ①① E. G. Dascalaki, S. Kontoyiannidis, C. A. Balaras and P. Droutsas,
Energy certification of Hellenic buildings: First findings
Energy & Buildings Vol. 65, p. 429–437, 2013.
- ①② C.A.Balaras, S.Kontoyiannidis, E.G.Dascalaki and K. G. Droutsas,
Intelligent Services for Building Information Modeling - Assessing Variable Input Weather Data for Building Simulations (DOI: 10.2174/1874836820131022005)
The Open Construction and Building Technology Journal, Vol.7, p. 138–145, October 2013.

2014

- ①③ K.G. Droutsas, S. Kontoyiannidis, E.G. Dascalaki, C.A. Balaras
Ranking cost effective energy conservation measures for heating in Hellenic residential buildings
Energy & Buildings, Vol.70, p 318–332, February 2014
- ①④ Balaras C.A., E.G. Dascalaki, K.G. Droutsas, S. Kontoyiannidis, R. Guruz, G. Gudnason,
Energy & Other Key Performance Indicators for Buildings – Examples for Hellenic Buildings
Global Journal of Energy Technology Research Updates, 1 (2), 71-89.
<http://dx.doi.org/10.15377/2409-5818.2014.01.02.2>

2016

- ①⑤ Constantinos A. Balaras, Elena G. Dascalaki, Kalliopi G. Droutsas, Simon Kontoyiannidis
Empirical assessment of calculated and actual heating energy use in Hellenic Residential buildings
Applied Energy 164 (2016) 115–132
- ①⑥ K.G. Droutsas, S. Kontoyiannidis, E.G. Dascalaki, C.A. Balaras
Mapping the energy performance of hellenic residential buildings from EPC (energy performance certificate) data
Energy 98 p 284-295
- ①⑦ Elena G. Dascalaki, Constantinos A. Balaras, Simon Kontoyiannidis, Kalliopi G. Droutsas
Modeling energy refurbishment scenarios for the Hellenic residential building stock towards the 2020 & 2030 targets
Energy & Buildings, Vol. 132 p 74–90

2017

- ①③ C.A. Balaras, E.G. Dascalaki, K. Droutsas, S. Kontoyiannidis, Premošćivanje razlike između stvarnog i proračunatog korišćenja toplotne energije i modelovanje stambenih zgrada odozdo naviše (Bridging the gap of actual and calculated heating energy consumption in bottom-up residential building stock modelling)
KGH – Heating, Ventilation and Air-Conditioning, [S.l.], Vol. 46, No 1, p. 59-67, 2017. ISSN 2560-340X

BOOKS

2011

Co-author in the following book published by the Technical Chamber of Greece (TEE), Athens, June (2011) for educational purposes and training of permanent energy inspectors throughout Greece (*in Hellenic*).

- ① **DK3 –Building Energy Audit** (132 p.)

SCIENTIFIC PUBLICATIONS

2000

- ① A.A. Argiriou, S. Lykoudis, S. Kontoyiannidis, C.A. Balaras
Test Reference Year (TRY) for Athens, CD-ROM
 Group Energy Conservation, IERSD, National Observatory of Athens, (ISBN 960-87905-7-3), Athens (2000).

2001

- ② A.A. Argiriou, C.A. Balaras, S. Kontoyiannidis
SOLHEATCOOL TRN-Display & Design Guidelines. Study & Development of Heating – Cooling Systems Using Renewable Energy, CD-ROM
 Group Energy Conservation, IERSD, National Observatory of Athens, Athens, (ISBN 960-87905-8-1), November (2001).

2004

- ③ C.A. Balaras, E. Dascalaki, S. Kontoyiannidis, A. Gaglia
XENIOS Software
 Group Energy Conservation, IERSD, National Observatory of Athens, (ISBN 960-87905-3-0), Athens, February (2004).
- ④ C.A. Balaras, E. Dascalaki, K. Droutsas, S. Kontoyiannidis
European Residential Building Audits Database – ERBAD Multimedia CD-ROM
 Group Energy Conservation, IERSD, National Observatory of Athens, (ISBN 960-87905-5-7), Athens, March (2004).
- ⑤ C.A. Balaras, E. Dascalaki, K. Droutsas, S. Kontoyiannidis
Building Deterioration Assessment Guidelines – BDAG Multimedia CD-ROM
 Group Energy Conservation, IERSD, National Observatory of Athens, (ISBN 960-87905-6-5), Athens, March (2004).
- ⑥ C.A. Balaras, E. Dascalaki, K. Droutsas, S. Kontoyiannidis, K. Hansen, E.H. Petersen
Building Environmental Impact Guidelines – BEIG Multimedia CD-ROM
 Group Energy Conservation, IERSD, National Observatory of Athens, (ISBN 960-87905-4-9), Athens, March (2004).
- ⑦ C.A. Balaras, S. Kontoyiannidis (Editors)
Energy Performance Assessment method for Existing Dwellings (EPA-ED) Dissemination Material, Multimedia CD-ROM
 Group Energy Conservation, IERSD, National Observatory of Athens, (ISBN 960-88325-2-7), Athens, November (2004).

2006

- ⑧ C.A. Balaras, S. Kontoyiannidis, S. Lykoudis
Test Reference Year (TRY 2006) for Athens, CD-ROM

Group Energy Conservation, IERSD, National Observatory of Athens, ISBN 960-88325-4-3, Athens, (2006).

2007

- ⑨ C.A. Balaras, S. Kontoyiannidis (Editors)
Energy Performance Assessment method for Non-Residential Buildings (EPA-NR) Dissemination Material & Software, Group Energy Conservation, IERSD, National Observatory of Athens, ISBN 978-960-88325-9-6, Athens, November (2007).

2008

- ⑩ A. Gaglia, S. Kontoyiannidis
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Energy Auditors



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Authors: C.A. Balaras, S. Kontoyiannidis, K. Droutsa

THESES

1990 – Diploma THESIS

Study of Rainfalls in Hellas, *in Hellenic*

Department of Physics, National Kapodistrian University of Athens, Athens (1990)

1992 - M.Sc. THESIS

Precipitation trends in Hellas, *in Hellenic*

Department of Applied Physics, National Kapodistrian University of Athens, Athens (1992)