



1. BIODATA

*Christopher Peter Butters: Norwegian citizen, born 09.12.1950 in Capetown, South Africa.
Domicile: Christian Michelsensgate 14, 0568 Oslo, Norway.
Higher Education: B.A. Degree in Literature, University of Stellenbosch, 1970.
M.Arch Degree D.P.L.G., Montpellier, France, 1978.
Postgraduate Diploma in Energy Planning, University of Oslo, 1979.*

2. PRESENT POSITIONS

- 2.1. Researcher, Centre for Development and the Environment (SUM), Oslo*
 - 2.2. GAIA architects, Norway and Consultant, GAIA International*
 - 2.3. Postgraduate Course Leader, Oslo University, Energy, Environment and Sustainable Development*
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3. SUMMARY

Chris Butters is a highly qualified and experienced architect and consultant in the field of sustainable building, planning and energy, with over 35 years of experience in Europe as well as in developing countries. He has also a long track record as author, researcher and educator.

Professional career includes architectural and planning practice in several countries, with special expertise in environment, energy and sustainable development. It includes project leadership and program management. Teaching, lecturing and extensive publication includes books in several languages. He also has practical on-site knowledge of construction through working as a self-employed builder; and considerable practice in organic farming.

Architectural design has included residential and tourism projects; schools; a hospital; and sustainable area planning. Designs include new construction as well as rehabilitation of old / traditional buildings.

Chris has been amongst the pioneers in the field of "green" or environmental architecture since his years in France in the late 1970's and then in Scandinavia, including energy design, solar energy, healthy building materials, indoor climate, ecological technology and urban ecology.

Educational work has been in the fields of architecture, energy and environment, with responsibility for course planning, curriculum development and leadership both at undergraduate and postgraduate levels. Also: Tibetological research and translations. Educational posts include four years at the Oslo School of Architecture (AHO, 1979-84), Guest Professor AHO (2007-2008), Guest Professor at College of St Benedict and St Johns University, Minnesota, USA (2009). Guest lecturer in many places including Oxford Brookes University, England (2013-15) and Warwick University, UK (2016).

4. ARCHITECTURE AND PLANNING

SPAIN: 1973-74

Tourist housing: Project designer for the ELEMESA group, Mallorca, including cluster style housing and tourist facilities in Cala Llamp, Puerto Andraitx and other locations.

FRANCE: 1974-80

BAAU, Lodève: (Bureau d'Architecture et d'Animation Urbaine) near Montpellier. Work included: houses, renovations, solar heating systems, tourist facilities; training workshops and exhibitions for building solar panels, rural self-help construction and renewable energy.

Rural planning, 1987-80, in Vaucluse province. Proposals for Local Area Plans; participation studies; projects with urbanist Dr. André Schimmerling and the AUEM group, including design of an experimental 'autonomous house' with Stucanet Industries, at St. Mathieu de Trévières.

Velleron passive solar housing: Proposed housing at Velleron (bioclimatic design, passive solar, stabilised earth construction, etc).

NORWAY: 1980-88

Consultant for energy, passive solar systems and ecological construction for various projects. Design and building of solar greenhouses/sunspaces, residential projects and renovations. Co-founder (1984) of the Norwegian GAIA group for Environmental Architecture, and of the GAIA International network (1991).

Competition Housing in Kristiansand "Bygg for Fremtiden", 1984: design and construction of four low energy houses (team project with architects Salvesen-Adams).

Nordnesparken: conversion to housing of a traditional old wooden 'brygge' warehouse on the Bergen waterfront: including design, supervision and participation in the construction. Heat pump system, passive solar etc. (with architects Haukeland and Amundsen, 1985-87).

Krybbesmuget: renovation of a traditional apartment building in Bergen including design, supervision, and participation as builder (with Amundsen, 1984-86).

Mohlenpris: technical consultant to the Institute of Urban Renewal (IBB) in Bergen, evaluation reports and technical recommendations for old city blocks (1985-6). Research on social integration, energy conservation, fire safety design (1986-88). Appointed research leader.

BHUTAN: 1988-1997

World Bank Primary Schools: executed the detailed surveys for three school sites in east Bhutan, elaborated the Site Master Plans, and made technical evaluations and designs for re-use of existing traditional structures on the sites (Dramitse, Mongar, Tangmachu; 1988).

Sherubtse College: Passive Solar greenhouse for the Botany Department (UNDP, 1989)

UNICEF Rural Community Schools: Programming primary schools in off-road areas; proposals on budget and implementation; developed the architectural designs specifically for isolated sites. Classrooms, hostels, kitchen facilities, etc. (Thangrong, Uzarong, 1990-91).

Gidakom Hospital: design of a new wing including rehabilitation, therapy units etc. for hospital at Gidakom. And revised Master Plan for the hospital complex (client: The Leprosy Mission, 1990).

Other projects: houses for the Dutch SNV organisation and Save the Children USA in Shemgang and for private persons (1989-95); design for a proposed Montessori Preschool, Thimphu (1992).

National Library of Bhutan: proposals for expansion of the National Library, including Master Plan for an Integrated Cultural Centre (1992-93, see also below). Assisted in preparation of project for a new School of Fine Arts in Thimphu and for Domkhar Buddhist Institute in Bumthang.

Health School: design (with Amundsen) of new Academic and Office Building and Hostel for the IECH unit, RIHS Health School, Thimphu (1993-4, DANIDA project).

Punakha Hospital: Project Coordinator and architect for a new district hospital plus annexed buildings in Punakha. Complete project leadership, architectural designs, site supervision and financial management, 1993-96. This project received a commendation in the international Ralph Erskine Awards for architecture, Sweden, in May 2000.

Rural Markets Project: Consultant architect for pilot Rural Market Facilities. (Wangdi, Trongsa, Mongar, Pemagatsetel); for FAO, the Food and Agriculture Organisation of the UN; 1995.

UNCDF Primary Schools: United Nations Capital Development Fund: Further development of the UNICEF model school designs, for 14 more Primary Schools in East Bhutan (1995-96).

Integrated Culture Centre: Initiator and architect consultant for Master Plans, building program and cost estimates, as well as sketch proposals for environmental/sustainable architecture, for a Culture Centre under the Bhutan-Netherlands Sustainable Development Agreement (1996-1997).

Consultant to the Department of Urban Development and Housing, Thimphu (2002-2004)

5. NORWAY, 1998-present:

GAIA Oslo architects: Architectural designs including low energy / ecological residential projects, kindergartens proposals and a rural ecocentre.

Consulting for energy and ecological retrofitting of various houses.

Adviser on sustainability policies and building regulations.

Participatory planning and ecological design for special user groups: Enebakkveien 37, St. Hallvardsplass urban housing; Hurdal ecovillage; Hausmania Culture Centre.

Design of a low energy massive timber brettstapel house, Heggedal near Oslo, 2009-10.

Project Leader, NABU - Norwegian Architects for Sustainable Development, a project of the Norwegian Association of Architects. (1998-2005).

Over the course of 5 years, Chris built up NABU as a self-financing national centre for promotion of sustainable architecture and planning. NABU became a nationally recognised organisation with four employees and a self-financing budget of approx. GBP 400,000 per year. Chris has broad experience in seeking funding and in financial management.

A main activity was interdisciplinary bridge-building between architects, landscape architects, engineers, interior designers and other disciplines for integrated sustainable design.

Initiator and leader of projects including courses, workshops, consulting, over 35 study tours, information, publications.

Extensive European networking. Collaboration with and support from ministries, local authorities, engineers, research institutes, user groups, NGOs and industry.

Director, International Union of Architects (1998-2004) - UIA Work Program The Road from Rio -

Sustainable Development of the Built Environment. Responsible for international activities including information networks, conferences, newsletters, and North-South exchanges to promote ecological design in developing countries.

Special Advisor, The Ideas Bank Foundation (2011-2013): responsible for activities in local sustainable development, especially with municipalities. Editor/author of two booklets presenting examples of successful Nordic and international local sustainable development.

Cultura Bank, Norway, environmental adviser

Design consultant for eco-homes, energy projects and ecocommunity initiatives.

Centre for Development and the Environment, University of Oslo (SUM):

Researcher, Energy and Sustainable Consumption.

See www.sum.uio.no.

6. ENGLAND, 2013-2017:

Warwick University School of Engineering: Researcher, EPSRC-funded program on low cost sustainable housing in hot climate developing countries. Partners: Thailand, China, Uganda, Tanzania.

For details and outputs see:

<https://warwick.ac.uk/fac/sci/eng/elith/>

7. EDUCATIONAL AND LECTURING:

Oslo School of Architecture:

Lecturer and course leader (1980-84) in the Department of Building Technology. Planned and led courses on rural design, solar and environmental technology, holistic design methods. Special courses in collaboration between different departments (Design - Technology - Planning).

International design courses in cooperation with Schools of Architecture in Norway, Holland, Scotland.

Guest professor, Institute of Architecture AHO. ENOVA Energy design studios, 2007-08.

University of Oslo:

Course Leader (since 1981), Energy, Environment and Sustainable Development, University of Oslo. This is an intensive six-week postgraduate program run in cooperation with the Centre for Development and Environment (SUM). Participants include planners, engineers, economists, biologists, architects, climate researchers etc. from over 120 countries. The course covers topics including Climate Science, Conventional and Renewable Energy Systems, Energy Efficiency, Sustainable Consumption, Energy Policy, Environmental Engineering, Sustainable Buildings and Cities, Green Economics, International Development.

USA:

Guest professor, Sustainable Urbanism, Department of Public Policy and Planning, College of St Benedict / St Johns University, Minnesota, USA (2009)

Exhibitions:

Organiser and co-designer of exhibitions including

- "The Many Worlds of Patrick Geddes", shown in Scandinavia and Scotland (1982);
- "The International Summer School 1947-83", commissioned by the University of Oslo (1983);
- "Ecological Building Design", with the GAIA-Norway group (1987).
- "Scandinavian Approaches to Ecological Architecture", Peking, Oslo, Tallinn (1999).

--"Tradition and Change: Nordic Environmental Architecture": International Union of Architects World Congress, Berlin (2002); also shown in Scotland, in Nordic Embassies Berlin, etc.

Conferences, committees:

-Co-organiser of conferences and workshops in Norway, Denmark, Sweden, Scotland, Spain, PRC China, Taiwan, Bhutan, Finland.

-International committee member for PLEA (Passive Low Energy Association), SB02 (Sustainable Building, Oslo 2002), ECOHB (European Committee on Healthy Buildings).

-Member of Synopsis Research Institute, Lodève: solar technology, earth building, etc

Workshops:

Extensive experience in participatory planning and interdisciplinary workshops on projects related to energy design, ecological spatial planning, urban ecology. (Over 30 workshops run with NABU, and a book on participation methods, see below)

Lecturing:

Lectures, conferences, etc. in France, Spain, United Kingdom, Denmark, Sweden, Norway, Finland, Germany, Latvia, Slovenia, Netherlands, USA, South Africa, India, Thailand, Bhutan, PR China, Taiwan,, Belarus.

8. INTERNATIONAL CONSULTING (see also under: Bhutan)

BHUTAN: International Conference Centre: Consultant for feasibility studies, programming and Concept Master Plan for a Conference Centre. Preparation of competition tender documents for international contracting. Department of Works and Housing, Royal Government of Bhutan, Thimphu (2000-2001).

NORWAY, VARIOUS: Sustainable urban development and housing planning (NABU) in many Norwegian locations including: Arendal, Trysil, Fauske, Narvik, Lier, Lillehammer, Stavanger, Gausdal, Vigeland, etc

TAIWAN: Sustainable City Master Plan, Tainan: Consultant for feasibility studies and concept Master Plan for a new Ecocity of 40,000 inhabitants in Tainan County. In partnership between GAIA International (Butters, Bokalders, Eble), EDS Design Shanghai, and the Archilife Foundation. Project for the Taiwan government / High Speed Rail project / National Cheng Gong University (2004-2006).

BERGEN: Sustainable Urban Development, Bergen: consultant to the City of Bergen for a large inner city redevelopment project at Damsgaardsundet with focus on sustainability, renewable energies, etc. (2005-7). In partnership with Joachim Eble Architektur, Tuebingen (Germany) and others.

Adviser / consultant for urban sustainability projects and housing, including

- Pilestredet Park urban ecology development, Oslo, Norway
- The Bo01 and Western Harbour Ecocity, Malmö, Sweden
- Cumbernauld New Town, Scotland
- Southannan Developers, Scotland
- Damsgaardsundet Green Waterfront development, Bergen, Norway
- Metropolzonen project, Mayor's Office, city of Copenhagen, Denmark.

Research, low energy low income housing in hot climates

International collaboration with research institutions in China, Thailand, Uganda and Tanzania, in a 3- year program for international development funded by the UK Research Council EPSRC and two UK Ministries, DfID and DECC, (2013-2016).

Main topics include:

- Sustainable Low Cost Housing for Developing Countries

- Research into materials, embodied energy/carbon and Life Cycle of buildings
 - Urban Heat Island Effect and Green Infrastructures
 - District Energy Cooling Systems
 - Research on sustainable urban form (with UNNC, the University of Nottingham Ningbo, China).
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9. LANGUAGES SPOKEN:

Fluent: English, French, Norwegian, Swedish, Afrikaans.

Fair: Spanish, Dutch.

Basic: German, Italian, Dzongkha/Tibetan.

10. PUBLISHED WORK

Author / co-author of 12 books.

Publications mainly in English, French, Norwegian; also Swedish, Danish, Polish, Chinese, Thai.

Articles in academic and professional journals; research and consultancy reports, educational material, and popular press. (not included here).

Reports and articles for technical/architectural institutions and ministries with main topics energy, environment, and sustainability.

Publications in or about Bhutan include texts translated from Choké (Tibetan), articles on Buddhist and environmental philosophy and development issues.

Translations:

Commissions for official documents:

--Government Ministries (KRD, MD)

--Statsbygg, the State Construction Directorate

--Norske Arkitekters Landsforbund, the National Association of Norwegian Architects

--The Architecture Competitions Journal NAK

--The Directorate of Cultural Heritage, Riksantikvaren

Translations English-Norwegian, Norwegian-English, English-French, Tibetan-English.

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(books are in **bold print**)

- 1977 **Micmacker, Butters et al: *Manuel de Construction Rurale et Alternative*. (book) eds. La Surienne, Montargis, France.**
- 1979 Butters C, *Technologies Alternatives, une Etude en Milieu Rural*. UPAM, Montpellier (thesis).
- 1979 Butters C, *Alternative Energy Research in Scandinavia*. ISS, University of Oslo.
- 1979 Butters, Singer: *Municipal Initiatives in Energy Planning*. ISS, University of Oslo.
- 1979 *Energie-Architecture*. Le Carré Bleu no.4/79, Paris.
- 1981 Butters, Røstvik et al: *Alternativ Teknologi*. Byggekunst, Norwegian Journal of Architecture, 2/81, Oslo.
- 1981 *L'Energie au Danemark*. Le Carré Bleu no. 2/81, Paris.
- 1982 *Architecture, Education et Ecologie: Commentaires de Norvège en Rapport avec les Idées de Patrick Geddes*. Le Carré Bleu no. 2/82, Paris.
- 1982 *Energy Efficient Architecture: USA and Canada*. Report, Norwegian Research Council, Oslo.
- 1983 *Lavenergihus*. Miljømagasinet 1/83, Oslo.
- 1983 Duijvenstein et al: *Fortingall 2000, A Book on Self Reliance*. TU Delft, Holland.
- 1984 *Scénarios Alternatifs; Itinéraires Scandinaves*. Le Carré Bleu 1/84, Paris.

- 1986 **Termodynamikk og Planlegging, in: Økokommuner, ed. E. Myrhaug, Bergen.**
- 1987 Butters et al: *A Low Energy House in Bergen*. Passive Low Energy Journal, PLEA, USA.
- 1987 *Hva er Økokommuner?* Plan og Arbeid 2/87, Oslo..
- 1987 *Glass og Energi*. Byggekunst 3/87, Oslo.
- 1987 Butters/GAIA: *Bygg for Fremtiden; Materialer, Energi, Innemiljø, Ressursbruk*. Arkitektnytt 17/87, Oslo.
- 1987 Butters/GAIA: *Bygg for Fremtiden; Tomt, Klima og Energi*. Arkitektnytt 18/87, Oslo.
- 1989 *Environmental Philosophy*, 3.6.89: *Energy and Development*, 10.6.89: *Buildings and Environment*, 17.6.89: *Education and Ecology*, 24.6.89. Series of four articles on environmental topics and their relation to Mahayana Buddhism: in Kuensel, Thimphu, Bhutan:
- 1992 Butters and K.P.Tashi: *Lhasetsangma: translation of the "... lha sras gtsang ma'i gdung brgyud 'phel rabs..." from the rGyal-rigs of Wagindra (1728)*. National Library, Thimphu, Bhutan.
- 1992 Butters and K.P.Tashi: *Brief Description of the Three Dimensional Demchog Mandala in the Tashichhodzong*. (translation of *bde mchog khyil 'khor gyi dkar chag* by Tenzin Dondup, 68th Jé Khenpo). National Library, Thimphu, Bhutan.
- 1992 Butters and K.P.Tashi: *The Eight Kinds of Chorten* (translation of *theg chen gyi gshegs mchod rten brgyad kyi skor* of Jetsun Taranatha).
- 1994 Butters and K.P.Tashi: *Explanation of the New Khamsum Yuley Namgyal Chorten in Yerpa, Punakha*. (transl. of *Khams gsum g.yul las rnam rgyal gyi mchod sdong chen po'i dkar chag*, by Kunzang Wangdi, Lama Nyingkhula. National Library of Bhutan, Thimphu.
- 1995 Butters and I.B.Amundsen: *Bærekraftig Utvikling? Inntrykk fra Bhutan*. Byggekunst 6/95 (Norwegian Review of Architecture), Oslo.
- 1995 **Butters (ed.) with P.Tshewang, P.Tashi and S.Kvaløy : *The Treasure Revealer of Bhutan: Pemalingpa, the Terma Tradition and its Critics*. Bibliotheca Himalayica, EMR Publishers, Kathmandu. Reprinted 1997.**
- 1997 *The Inauguration of a Bhutanese Hospital*. in Tashi Delek 05-06/1997, Delhi/Thimphu.
- 1998 Butters et al: *Naturlig Ventilasjon*. Interdisciplinary Workshops, Report. NABU, Oslo.
- 1999 Natvig M., Butters C. et al.: *Sustainable Sports and Leisure Facilities*. Conference proceedings, Lillehammer / NABU / International Union of Architects.
- 1999 **Butters C. and John Bray: *An Eighteenth Century Bhutanese Lama's Journey to Bhutan, in: Ladakh, Culture, History and Development*, Aarhus University Press, Denmark.**
- 2000 **Butters and Finn Østmo: *Bygg for en Ny Tid. Mot en miljøvennlig arkitektur*. The first anthology of Norwegian environmental architecture. NABU, Oslo 2000.**
- 2000 Butters/Tollefsen/Bratset: *The Pilestredet Park Urban Ecology project*. (in English and Norwegian). IFHP paper, NABU/Statsbygg, Oslo.
- 2000 Butters, C. and Løvstakken, E.: *Bærekraftig byggeskikk*. Special issue of Husbankens journal on sustainable building. NABU / Husbanken, Oslo
- 2001 Butters, C. / NABU. *Urban Ecology Guide to Oslo*, and in Norwegian, *Byøkologisk Guide for Oslo*.
- 2002 *Urban Ecology: Pilestredet Park*. Sustainable Building Journal 04-2002, Aeneas, Netherlands.
- 2002 Butters C (ed.) *Sustainable Architecture for Developing Countries*. International Union of Architects (UIA), Oslo
- 2002 **Farner, Asle with F.Miller, C.Butters et al.: *Verksted som Verktøy i Plan- og Utviklings--prosesser*. Handbook on participatory workshop methods. Kommuneforlaget, Oslo.**
- 2002 *Ekologia, modernizm i zyjace korzenie*. Murator Architektura 12/2002, Warsaw, Poland.
- 2003 Butters, C. / NABU: *Urban Ecology and Benchmarking*. Oslo Havnevesenet (Oslo Port Authority), Oslo.
- 2003 *Policy paper for the UN Commission on Sustainable Development (CSD-12)*. Published by the Ministry of Environment, Oslo 2003.
- 2003 Butters, C / NABU. *Sustainability Policy for the National Association of Norwegian Architects*. NAL, Erklæring om Bærekraft, Oslo.
- 2004 *Urban Ecology in Europe*. Conference proceedings. SUST, The Lighthouse, Glasgow.

- 2004 *A Holistic Method of Evaluating Sustainability*. In: Building and Urban Development in Norway, ed. Jens F. Nystad. International Federation of Housing and Planning 2004, Husbanken, Oslo.
- 2005 *Design of Sustainable Schools / Construction of Sustainable Schools*. Eds. GAIA Research Edinburgh. The Scottish Executive, 2 booklets with contributions by CB. Publisher SUST, Glasgow, 2005.
- 2005 C. Butters and E. Løvstakken / NABU: *Bærekraftig Byggeskikk*. Husbanken, Oslo 2005
- 2006 *Energibevisst utforming av byer og bygninger*. http://www.lavutslipp.no/article_818.shtml published by: Lavutslipputvalget, Norway April 2006.
- 2006 *Traditional architecture – a premise for intelligent energy use*. In: Energy Efficiency, UNEP / Wuppertal Institute. CSD14 – booklet of project examples, Oslo, June 2006
- 2006 *Housing and Sustainability Trends; Country Report, Norway*. The EU ECONO project, eds. Kimmo Kuismanen et al., Oulu, Finland.
- 2006 *Byutvikling: Mainstream og marginene*. In: Mulighetsrommet. Idebanks årsbok, Oslo.
- 2006 **C. Butters, A.M. Raaholt and K. Skaara: *Hytter og miljø – 39 eksempler på miljøvennlig fritidsbebyggelse***. A book on environmental holiday homes. Kommuneforlaget, Oslo.
- 2011 C. Butters, M. Nakkerud, O. Slåtten (eds.) : *Signals: Local action – Success Stories in Sustainability*. Stiftelsen Idebanken (The Ideas Bank Foundation), Oslo.
- 2011 **Chris Butters, *The Sustainability Value Map*, in: Tigran Haas (ed.): *Sustainable Urbanism and Beyond***. Rizzoli, New York.
- 2012 **Chris Butters (ed.) *NORDIC - Success Stories in Sustainability***. The Ideas Bank Foundation, Oslo.
- 2012 **Butters C. and Bente Nuth Leland: *Fra passivhus til sunne hus. Arkitektur, miljø og helhet***. GAIA Agenda forlag, Oslo.
- 2012 **M. Grupp, M. Balmer, C. Butters, J. Cieslok, A. Fainsilber, G. Schröder. *Time to Shine: Practical Applications of Solar Energy Technology***. Synopsis Institute, Lodeve, France. Wiley, New York.
- 2013 (various articles in Norwegian technical journals about passivhaus solutions, queries about MVHR and proposed new building regulations – also short version in CIBSE Journal, UK).
- 2014 Chris Butters and Ali Cheshmehzangi, *The Effects of Improved Built Form on Urban Cooling: Review of Passive Strategies and Urban Design*. 5th International SEE conference, Nov. 2014 Thonburi, Thailand.
- 2014 Butters, C. *Passive Cooling: Air Movement in Hot Climate Buildings, a Review*. ELITH Research Program, Warwick University School of Engineering, UK.
- 2014 Butters, C. *The Dynamics of Change: Processes towards Sustainable Building*. ELITH Research Program, Warwick University School of Engineering, UK, <https://www2.warwick.ac.uk/fac/sci/eng/elith/publications/>
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- 2016 Butters, C and Cheshmehzangi A, *Chinese Urban Residential Blocks Towards Improved Environmental and Living Qualities*, Urban Development International.
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- 2017 Butters, C., *Sustainable Buildings are for People: Architecture, Culture and Community*, in; 100 Sustainable Scottish Buildings, RIBA Publishing, UK.
- 2017 **Cheshmehzangi, C and Butters, C. (eds.): *Designing Cooler Cities. Energy, Cooling and Urban Form: Asian Perspectives***. Palgrave MacMillan.
- 2018 Thomas, T. and C. Butters. *Thermal Equity, Public Health and District Cooling in Hot Climate Cities*. Journal of Municipal Engineering, ICE Publishing, UK.
- 2019 (in review, *Cities*) Butters C., A. Cheshmehzangi and P. Sassi: *Energy and Carbon: Seven Reasons to Query the Dense High-rise City*. Warwick/Oxford Brookes, UK.

Update to: Jan.2019
