

Pia Piroshka Otte - Curriculum Vitae

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Address: Ruralis - Institute for Rural and Regional Research, N- 7491 Trondheim, Norway

Phone: +47 94 48 47 36 (Mobile)

Email: pia.otte@ruralis.no

Date of birth: 19.05.1984

Fieldwork experience

India, Burkina Faso, South Africa, Mozambique, Tanzania, Namibia, Botswana, New Zealand, Norway, Brazil, Germany

Research interests

Social science research on energy transitions, agricultural technology development, climate change and rural/urban development. Extensive expertise in interdisciplinary research and a strong methodological background including participatory methods and QCA (Qualitative Comparative Analysis), particularly the computer softwares fsQCA and Tosmana. Passionate lecturer with a strong commitment to teach students about renewable energy and sustainable development in higher education.

Professional experience

07.2018-until today **Researcher/coordinator at NTNU Sustainability**, Cluster C - Climate change mitigation and adaptation (33%)
09.2015-until today Senior Researcher at Ruralis – Institute for Rural and Regional Research
09.2018-until today **Research Affiliate**, Centre for Sustainability, University of Otago, New Zealand
10.2018-12.2018 **Visiting scholar** University of Western Australia, School of Agriculture and Environment; University of Otago, Centre for Sustainability
10.2014-08.2015 **Postdoc Research Fellow and coordinator at TU Darmstadt**, URBANgrad Graduate School "Urban Infrastructures in Transition: The Case of African Cities"
08.-09.2009 **Internship at the Institute for Sustainable Development & Renewable Energy (IDER)** - Fortaleza, Brazil; Responsibilities included: work with the implementation of the improved woodstove program

Education

01.2010-06.2014 **PhD in Political Science** – Department of Sociology and Political Science – NTNU, Trondheim
08.2007-06.2009 **MPhil in Development Studies** – Department of Geography – NTNU, Trondheim
10.2003-07.2007 **Magister in Sociology** (courses & exams taken until 2007 were approved as Bachelor in Sociology) Justus-Liebig University Giessen, Germany

Advanced training

03.-11.2018 PRIMUS course research project leadership (4 sessions)
01.-02.2014 IDELAB "Towards a zero-emissions society" organized by the Norwegian Research Council, Oslo
02.-03.2013 Qualitative Comparative Analysis and Fuzzy Set Analysis, KU Leuven
01.-02.2011 Comparative research design and configurational comparative methods, IPSA Summer School São Paulo

Work history- Recent research projects

2019-2022 **Sustainable Food Systems** for poverty and hunger alleviation in Low Income Countries (WP2 leader, Sustainable value chain development for Cashew Nuts in Mozambique, internally funded Ruralis)
2017-2019 **Solar Food in Mozambique** - a documentary about research in a developing country (Solmat i Moçambique – en dokumentärfilm om forskning i ett utvecklingsland) (involved in

- story line writing and film making) (funded by The Swedish Research Council for Environment, Agricultural Sciences and Spatial Planning, FORMAS)
- 2017-2021 **COOLCROWD** - Local crowdfunding for a low-emission society: Investigating the concept of local climate crowdfunding for Norway (Project leader, funded by the Research Council of Norway)
- 2016-2019 **BIOSMART** - Transition to a smart bioeconomy (WP 4 Social acceptability - ethics and outcomes) (funded by the Research Council of Norway)
- 2016-2018 **Utmark-SIS** - Outfields between primary production, resource for development and environmental good (WP 2 Industrial expansion in outlying areas - mineral extraction and energy production)
- 2015-2019 **SOLTØRK** - Combined solar and membrane drying technologies for sustainable fruit preservation in developing countries (WP leader) (funded by The Swedish Research Council FORMAS)
- 2015-2018 **COST Action TU1401** - Renewable energy and landscape quality (RELY)
- 2014-2017 **CAPTURE+** - Sustainable biochar systems for a zero emission society (WP leader) (funded by the Research Council of Norway)
- 2010-2014 **Cooking with the sun** - a comparative country analysis of Solar Cooking, its adoption and impact on people's lives (PhD project) (funded by the Research Council of Norway)

Teaching (2011-2018)

Norwegian School of Economics, Department of Strategy and Management

- Guest lecture: "Limits and possibilities of green crowdfunding as part of the collaborative economy", course "The collaborative economy" (NBD 411), spring 2018.

Lund University, Department of Energy and Building Design

- Guest lecture: „Examining factors influencing social acceptance and distribution of solar PV systems in developing countries“, course "Solar Electricity Technology" (AEB 020), spring 2017-2020.

Technische Universität Darmstadt, Mundus Urbano Master Program

- Lecturer and course coordinator for "Research Proposal", spring 2015.

NTNU, Department of Sociology and Political Science

- Village leader Experts in Team: POL 3801 "Sustainability at home – learning from the developing world", spring 2014.
- Part time lecturer SOS 3050 "Empirical Research Methods", spring 2013/14.
- Lecturer and course coordinator POL 3005 "Research Design and Methods for interdisciplinary studies", spring 2011-14.
- Guest lecture: "Energy and Development – The case of Africa", AFR 1002, spring 2012-14.
- Three lectures on energy and development within POL 3517 "International Development", spring 2011-13.

Supervision of students

- Haring, Gordon Marcus: Mapping of the Business Model Experimentation Process for Coolcrowd. R 8/19.

Publications

International peer-reviewed journals:

- 2018 **Otte, Pia, P.**, Bernardo, R., Phinney, R., Davidsson, H., Tivana, L.D. "Facilitating integrated agricultural technology development through participatory research", The Journal of Agricultural Education and Extension, 24(3), 285-299.

- 2018 **Otte, Pia, P.**, Tivana, L.D., Phinney, R., Bernardo, R., Davidsson, H. "The importance of gender roles and relations in rural agricultural technology development: a case study on solar fruit drying in Mozambique", *Gender Technology and Development*, 22(1), 40-58.
- 2018 Kruse, Alexandra; Marot, Naja; Alduk, Zlata Dolacek; Benediktsson, Karl; Bottarelli, Michele; Brito, Paolo; Centeri, Csaba; Eiter, Sebastian; Frantál, Bohumil; Frolova, Marina; Gaillard, Bénédicte; Grónás, Viktor; Häyrynen, Maunu; Hernández-Jiménez, Veronica; Hewitt, Richard; Hunziker, Marcel; Kabai, Róbert; Karan, Isidora; Lachowska, Malgorzata; Martinat, Stanislav; Martinopoulos, Georgios; Mestre, Nieves; Mickovski, Slobodan B.; Miller, David; **Otte, Pia**; Morenes Munoz-Rochas, José Rafael; Röhner, Sina; Roth, Michael; Schroth, Olaf; Sconamiglio, Alessandra; Slupinski, Mateusz; Stremke, Sven; Teschner, Na'ama. Glossary on Renewable Energy and Landscape Quality - the Glossary. *Tájökológiai lapok*, 16.(S2), 7-96.
- 2017 **Otte, Pia, P.** Vik, J. Biochar systems: Developing a socio-technical system framework for biochar production in Norway, *Technology in Society*, 51, 34–45.
- 2016 **Otte, Pia, P.** Integrating Sustainable Development in Higher Education through Experience-based Learning: Insights from Experts in Team (EiT) for Developing a Combined Theoretical Framework, *Journal of Education for Sustainable Development* 10(1), 1–29.
- 2014 **Otte, Pia, P.** Solar cooking in Mozambique - An investigation of end-user's needs for the design of solar cookers, *Energy Policy*, 74, 366-375.
- 2014 **Otte, Pia, P.** Warming up to solar cooking - A comparative study on motivations and the adoption of institutional solar cookers in the developing world, *Energy Procedia*, 57, 1632-1641.
- 2014 **Otte, Pia, P.** A (new) cultural turn towards solar cooking - Evidence from six case studies across India and Burkina Faso, *Energy Research and Social Science*, 2, 49-58.
- 2014 **Otte, Pia, P.** Developing Technology: The quest for a new theoretical framework for understanding the role of technology in human development, *Technology in Society*, 38, 11-17.
- 2013 **Otte, Pia, P.** Solar cookers in developing countries - What is their key to success? *Energy Policy*, 63, 375-381.

Books/Reports:

- 2020 Maehle, N., **Otte, Pia, P.**, Drozdova, N. "Crowdfunding Sustainability." Shneor, R., Zhao, L., and Flåten, B-T. (eds). *Advances in Crowdfunding Research and Practice*. Palgrave MacMillan (in press).
- 2020 Farstad, M., **Otte, Pia, P.**, Thorseth M. "Bioøkonomien i møte med samfunnet", in *Etter oljen: vår bioøkonomiske fremtid*, Rob Burton, Magnar Forbord, Eirik Magnus Fuglestad and May-Britt Ellingsen (eds.), Cappelen Damm Akademisk (in press).
- 2019 **Otte, Pia, P.**, Zahl-Thanem, A., Hansen, S., Mæhle, N. Norwegian farmers' willingness to participate in a local climate crowdfunding program – results from a national survey. *Ruralis report (R-5/19)*, Trondheim.
- 2018 Eiter, S., Fjellstad, W., **Otte, Pia, P.**, Rønningen, K., «Norway», in: *Renewable Energy and Landscape Quality*, (eds.) Roth et al., JOVIS, Berlin.
- 2018 **Otte, Pia, P.**, Rønningen, K., Moe, E. «Contested wind energy: Discourses on energy impacts and their significance for energy justice in Fosen» in: *Energy impacts and contested futures*, (ed.) A. Szolucha, Routledge.
- 2018 **Otte, Pia, P.** „Zwischen Überfluss und Mangel: Einblicke in die Reparatur städtischer Infrastrukturen am Beispiel der Wasserversorgung in Dar es Salaam“, in: *Kulturen des Reparierens Dinge – Wissen – Praktiken*, (eds.) S. Krebs, G. Schabacher, H. Weber. transcript, Bielefeld.
- 2017 Maria Kollberg Thomassen, Adam O'Toole, Erik Joner, Roman Tschentscher, **Pia Otte**, Jostein Brobakk, Jostein Vik, Svein Horn, Lars Vik, Trond Halvorsen. *Utvikling og implementering av biokull som klimatilak i Norge*. SINTEF prosjektnotat, <https://www.sintef.no/globalassets/sintef-teknologi-og-samfunn/avdelinger/arbeids-og-naringsliv/capture-biokull-som-klimatiltak.pdf>
- 2017 Sovacool, B., Appavou, F., **Otte, Pia, P.** «Distributed Renewable Energy for Energy Access» (chapter 3), in REN21. *Renewables 2017 Global Status Report* (Paris: REN21 Secretariat). ISBN 978-

3-9818107-6-9 http://www.ren21.net/wp-content/uploads/2017/06/17-8399_GSR_2017_Full_Report_0621_Opt.pdf

- 2014 **Otte, Pia, P.** Sunrise or sunset? - A comparative study on the successful adoption of institutional solar cookers in the developing world, LAMBERT Academic Publishing, Saarbrücken.
- 2009 **Otte, Pia, P.** Cooking with the sun - An analysis of Solar Cooking in Tanzania, its adoption and impact on development. VDM Verlag, Saarbrücken.

Conference proceedings:

- 2014 **Otte, Pia, P.** Mapping global impact data for solar cooking: a case study SCInet Solar Cooking Convention, Sacramento 17-19th July.
- 2014 **Otte, Pia, P.** Relevant factors for the successful adoption of institutional solar cookers, SCInet Solar Cooking Convention, Sacramento 17-19th July.
- 2012 **Otte, Pia, P.** The impact of spiritual commitment on the social adoption of institutional solar cooking - The case of the Brahma Kumaris, Eurosun conference 2012, Rijeka, Croatia.
- 2011 **Otte, Pia, P.** Limits and possibilities of institutional solar cooking in Mozambique, Solar World Congress 2011, Kassel.
- 2008 **Otte, Pia, P.** Solar cookers for developing countries - A competitive form of alternative energy supply? The Use and Study of Renewable Energy Sources 2008, Estonian University of Life Sciences, Tartu.

Popular science publications:

- 2020 **Otte Pia, P.** »Biokull som klimatiltak gjennom lokal folkefinansiering« NTNU Kveld: Siste utvei – nye og drastiske klimaløsninger? NTNU Kveld, Dokkhuset, 22.01.2020.
<https://www.youtube.com/watch?v=HTledxu2FK4>
- 2020 **Otte Pia, P.** »Klimatiltak i landbruket og lokal folkefinansiering« NRK Frokostradio, 22.02.2020
<https://radio.nrk.no/serie/frokostradio/DMTL10001520/22-01-2020>
- 2018 **Otte Pia, P.** Lokal folkefinansiering av klimatiltak. Pengevirke Cultura Bank, Nr. 2018/4.
<https://www.cultura.no/arkiv/pengevirke/lokal-folkefinansiering>
- 2018 **Otte, Pia P.** 235 SunPod-Interview: Dr. Pia Otte – Developing solar energy technologies for and with people, <http://www.sunpod.de/tag/pia-otte/> (uploaded 24.06.2018)
- 2018 **Otte Pia, P.** – «Bønder som pionerer i klimakampen». Kronikk Nationen, 04.01.2018.
- 2017 Ståhl, L.H., **Otte, Pia, P.** Bernardo R. "The village of the yellow tire" (documentary of solar drying in Mozambique).
- 2016 **Otte, Pia, P.** Brobakk, J. Biokull – landbrukets «klimagull»? Kronikk Nationen, 08.10.2016.
- 2014 **Otte, Pia, P.** Teknologi for de fattige?, Aftenposten Viten, 23.04.2014,
<http://www.aftenposten.no/viten/Teknologi-for-de-fattige-7540003.html#.U1fJdvmSxBI>
- 2013 **Otte, Pia, P.** TEDx talk Trondheim salon event "Re-thinking Green: What I learned from cooking with the sun" (23.04.2013) <https://www.youtube.com/watch?v=ddjRS0LSh4>
- 2011 **Otte, Pia, P.** Novela, A. Kanimambo Mocambique - Vorstellungen über Mosambik - Von Krieg und Armut zu Frieden und Schönheit, Mosambik Rundbrief 82. Mit Leichtigkeit und Humor - Kunst und Kultur in Mosambik.

Selected conference/seminar presentations (2016-2019)

- **Otte, Pia, P.**; Kragt M., Stephenson, J., Local climate crowdfunding as a new financial scheme for storing carbon in soils?, ANZBC conference, Melbourne, 25.10.19.
- **Otte, Pia, P.** Kragt M. Biochar and Crowdfunding, ANZBC study tour, Mount Gambier, 22.10.19.
- **Otte, Pia, P.** Local climate crowdfunding – a social innovation to tackle climate change?, ISIRC Glasgow, 03.09.19.
- **Otte, Pia, P.**, Mæhle, N., Huijben, B., Machiel de Vries J., Peeters, I. Agri-food XXV, Brisbane oral presentation: "The use of co-framing for promoting crowdfunding of climate friendly agri-food production", 30.11-05.12.2018.

- **Otte, Pia, P.**, Rønningen, K., Moe, E. Energy justice and the capability approach – Interdisciplinary perspectives, Malmö oral presentation: “Energy and capabilities – investigating scalar and temporal complexities of capabilities in the case of the Fosen wind energy project”, 12.-13.09.2018.
- Bernardo R., **Otte, P.P.** CONSOLFOOD, Faro oral presentation: «Performance Testing of a Solar Thermal Fruit Dryer”, 22.-24.01.2018.
- **Otte, Pia, P.** Forskningsdag Mære landbruksskole “Biokull = Klimagull?”, 27.09.2017.
- **Otte, Pia, P.** Energy Impacts, Bergen, oral presentation: “The contested image of wind energy– Investigating the sustainability potential of Europe’s largest onshore wind power project in Central Norway”, 28.02-02.03.2017.
- **Otte, Pia, P.** 3rd Energy and Society Conference, Leipzig, oral presentation: “Solar membrane fruit drying for Mozambican farmers – A needs assessment”, 12-14.09.2016.
- **Otte, P.P.** IRSA, XIV World Congress of Rural Sociology, Toronto, oral presentation: “Improving synergies: Building knowledge of biochar among Norwegian farmers”, 10.-14.08.2016.

Reviewer

- Energy Research & Social Science
- Energy Policy
- Gender, Technology and Development
- Baltic Journal of Management

Institutional responsibilities

2019-2020	Employee representative, steering group Ruralis, Norway
2018-2019	Board Member in the local organization of Forskerforbundet (trade union for researchers), Ruralis, Norway
2019- today	Owner and stable manager of Stall Brålykkja https://www.stallbraalykkja.no/
2020-today	Steering group leader of Trøndelag Dølahestlag

Languages

German	Native speaker
English, Norwegian	Fluent
Portuguese	Basic notions (B1)
Spanish	Basic notions (A1)