

Peter Dauenhauer
Electronic And Electrical Engineering

Qualifications

Master of Economics, University of Amsterdam
Award Date: 1 Jan 2010

Bachelor of Arts, University of Washington
Award Date: 1 Jan 2006

Research output

Sustainability of solar PV energy kiosks for off-grid energy access: Malawi case study

Frame, D., Dauenhauer, P., Eales, A. & Galloway, S., 12 Mar 2020, *2019 IEEE Global Humanitarian Technology Conference (GHTC)*. Piscataway, N.J.: IEEE, 8 p. 9033449

Sustainability evaluation of community-based, solar photovoltaic projects in Malawi

Dauenhauer, P. M., Frame, D., Eales, A., Strachan, S., Galloway, S. & Buckland, H., 26 Feb 2020, In: *Energy, Sustainability and Society*. 10, 20 p., 12.

Experiences from deploying solar PV energy businesses in rural Malawi

Frame, D., Dauenhauer, P., Eales, A. & Galloway, S., 5 Jul 2019. 16 p.

Improving shoestrings surveys for off-grid humanitarian power projects: kilowatts for humanity and KoboCollect

Dauenhauer, P., Shields, M., McLean Sloughter, J., Stewart, A.J., Lacrampe, C., Magness, E., Ochavillo, J., Limfueco, J. & Mendoza, A., 7 Jan 2019, *2018 IEEE Global Humanitarian Technology Conference (GHTC)*. Piscataway, NJ: IEEE, p. 1-6 6 p. 8601657

Accuracy of energy-use surveys in predicting rural mini-grid user consumption

Blodgett, C., Dauenhauer, P., Louie, H. & Kickham, L., 31 Dec 2017, In: *Energy for Sustainable Development*. 41, p. 88-105 18 p.

Analyzing sub-optimal rural microgrids and methods for improving the system capacity and demand factors: filibaba microgrid case study examined

Kumar, N. P., Makai, L., Singh, M., Cho, H., Dauenhauer, P. & Mutale, J., 25 Dec 2017, *2017 IEEE Global Humanitarian Technology Conference*. Piscataway, NJ: IEEE, 8 p.

Electricity access options appraisal in Malawi: Dedza district case study

Eales, A., Frame, D., Dauenhauer, P., Kambombo, B. & Kamanga, P., 27 Jun 2017. 6 p.

Sustainability of Solar PV Systems in Malawi

Buckland, H., Frame, D., Dauenhauer, P., Eales, A. & Strachan, S., 28 Apr 2017, Glasgow: University of Strathclyde.

Small scale rollout of PV systems in Chikwawa District, Malawi: remote monitoring system effectiveness

Mafuta, M., Dauenhauer, P. & Chadza, T., 19 Mar 2017, In: *Journal of Solar Energy*. 2017, p. 1-21 21 p., 9583860.

Sustainability analysis off-grid community solar PV projects in Malawi

Dauenhauer, P. M. & Frame, D. F., 16 Feb 2017, *2016 IEEE Global Humanitarian Technology Conference (GHTC)*. Piscataway, N.J., p. 113-120 8 p.

SOGERV Market Assessment

Dauenhauer, P., Frame, D., Kang'ombe, R., Tembo, S. & Zimba, M., 30 Nov 2016, Glasgow: University of Strathclyde. 61 p.

Effects of load estimation error on small-scale off-grid photovoltaic system design, cost and reliability

Dauenhauer, P. & Louie, H., 31 Oct 2016, In: Energy for Sustainable Development. 34, p. 30-43 14 p.

Critical review of the Malawi community energy model

Dauenhauer, P. M. & Frame, D. F., 1 Sep 2016, *2016 IEEE PES PowerAfrica*. Piscataway, NJ., p. 78-82 5 p. 7556575

Issues and applications of real-time data from off-grid electrical systems

Louie, H., Goldsmith, G., Dauenhauer, P. & Almeida, R. H., 1 Sep 2016, *2016 IEEE PES PowerAfrica*. Piscataway, N.J., p. 88-92 5 p.

Mzimba Wind Farm - Energy Yield Assessment

Dauenhauer, P., Jul 2015, Glasgow: University of Strathclyde. 34 p.

Sustainability of Solar PV Institutions in Malawi

Dauenhauer, P. & Frame, D. F., 15 Jun 2015, Glasgow: University of Strathclyde. 60 p.

MREAP - End of Project Report, June 2015

Dauenhauer, P. & Bell, G., Jun 2015, Glasgow: University of Strathclyde. 9 p. (MREAP Technical Reports)

Programme Impact Overview: [Malawi Renewable Energy Acceleration Programme (MREAP)]

Dauenhauer, P., Jun 2015, Glasgow: University of Strathclyde. 20 p.

Technical sustainability of solar PV institutions: results from a field survey of 43 sites in Malawi

Dauenhauer, P., Frame, D. & Strachan, S., Jun 2015, *4th Symposium Small PV-Applications 2015: Rural Electrification and Commercial Use*. p. 116-121 6 p.

Process Evaluation of Community Energy Development Programme Projects

Dauenhauer, P., Currie, C., Davies, G. & Young, E. W., Apr 2015, Glasgow: University of Strathclyde. 88 p.

Remote Monitoring System Effectiveness: Small Scale Rollout of PV Systems in Chikhwawa District, Malawi

Mafuta, M. T., Dauenhauer, P. & Chadza, T., Apr 2015, Glasgow: University of Strathclyde. 35 p.

System usage trends for off-grid renewable energy users in developing communities

Dauenhauer, P. & Louie, H., 2015, *4th Symposium Small PV-Applications 2015: Rural Electrification and Commercial Use*. p. 175-180 6 p.

Multi-function DC protection scheme for an LVDC smart last mile distribution network

Emhemed, A., Emhemed, A., Burt, G., Fong, K., Fong, K., Rakhra, P. & Dauenhauer, P., 20 Oct 2014

Eternal light: ingredients for sustainable off-grid energy development

Louie, H., Dauenhauer, P., Wilson, M., Zomers, A. & Mutale, J., 1 Aug 2014, In: IEEE Power and Energy Magazine. 12, 4, p. 70-78 9 p.

Remote monitoring of off-grid renewable energy case studies in rural Malawi, Zambia, and Gambia

Dauenhauer, P. M., Frame, D. F., Strachan, S., Dolan, M., Mafuta, M., Chakraverty, D. & Henrikson, J., 23 Oct 2013, *2013 IEEE Global Humanitarian Technology Conference (GHTC)*. IEEE, p. 395 - 400 6 p.

An integrated approach to energy for development: case study of the Malawi Renewable Energy Acceleration Programme

Frame, D. F., Dauenhauer, P. M., Tembo, K., Currie, C. & Ault, G. W., 2013, *Proceedings of the Third IEEE Global Humanitarian Technology Conference: GHTC 2013*. Piscataway, NJ.: IEEE, p. 72-77 6 p. 6713657

Evaluation of Off-grid Community Managed Renewable Energy Projects in Malawi: Dedicated Study

Dauenhauer, P., Currie, C., Banda, G., Dinsmore, H., Henderson, S., Kafakoma, R., O'Reilly, S. & Watson, S., Jun 2012, Glasgow: University of Strathclyde. 55 p.

Affordable energy solutions for developing communities

Podmore, R., Larsen, R., Louie, H., Dauenhauer, P., Gutschow, W., Lacourciere, P., Parigoris, R. & Szablya, S., 1 Mar 2012, In: IEEE Power and Energy Magazine. 10, 2, p. 89-98 10 p.

Opportunities and challenges for micro wind turbines in developing communities

Louie, H., Van Acker, V., Szablya, S. & Dauenhauer, P., 2012, *2012 IEEE Global Humanitarian Technology Conference (GHTC)*. Piscataway, NJ.: IEEE, p. 304-309 6 p. 6387066

Activities

2018 IEEE PES General Meeting

Peter Dauenhauer (Member of programme committee)
2018

2016 IEEE PES PowerAfrica Conference

Peter Dauenhauer (Speaker)
2016

Kigali Smart Villages Workshop

Peter Dauenhauer (Invited speaker)
8 Sep 2015

2015 Malawi Renewable Energy Symposium

Peter Dauenhauer (Speaker)
19 Aug 2015

IEEE Power and Energy Society General Meeting

Peter Dauenhauer (Speaker)
27 Jul 2015

4th Symposium Small PV-Applications

Peter Dauenhauer (Speaker)
2015

IEEE Power & Energy Society (External organisation)

Peter Dauenhauer (Chair)
Jul 2013 → ...

2013 IEEE Power and Energy Society (PES) General Meeting

Peter Dauenhauer (Member of programme committee)
2013

2013 IEEE Power and Energy Society (PES) General Meeting

Peter Dauenhauer (Organiser)
Jul 2012

2012 IEEE Global Humanitarian Technology Conference

Peter Dauenhauer (Participant)
2012

IEEE PES Smart Village (IEEESV) (External organisation)

Peter Dauenhauer (Member)
Oct 2011 → ...

