



## CURRICULUM VITAE: RICHMORE KASEKE

Institution : Stellenbosch University  
 Profession : Research Engineer  
 Specialization : Energy Management  
 Position in Institution : Senior Research Engineer (Project Manager)  
 Year appointed : 2020  
 Nationality : Zimbabwean  
 Year of Birth : 1982  
 Language Proficiency : English, Shona, IsiXhosa

### EDUCATION AND PROFESSIONAL STATUS

| Qualification                                              | Institution             | Year |
|------------------------------------------------------------|-------------------------|------|
| BSc (Physics and Computer Science)                         | University of Fort Hare | 2005 |
| Hons Physics                                               | University of Fort Hare | 2006 |
| MSc Physics                                                | University of Fort Hare | 2007 |
| PhD Physics                                                | University of Fort Hare | 2013 |
| Certified Energy Manager (CEM)                             | AEE                     | 2016 |
| Certified Measurement and Verification Professional (CMVP) | AEE & EVO               | 2017 |

### EMPLOYMENT AND EXPERIENCE OVERVIEW

Dr Richmore Kaseke holds a PhD in Physics from University of Fort Hare. He was a founding member of the Measurement and Verification (M&V) Team at the University of Fort Hare in 2005 and worked as an M&V Team Technician since then. He was later promoted in 2007 to M&V Team Senior Engineer, a position he held till 2012. The role included assessment of the feasibility of Energy Management Opportunities (EMO's), develop and plan methodologies for project assessment. He was then appointed in 2012 to 2020 as Measurement and Verification Researcher in the Fort Hare Institute of Technology. He has over 14 years of experience in Eskom IDM's Measurement and Verification of energy savings (Energy Audits) in Residential, Commercial and Industrial energy use sector. He has over 8 years of human capital and project management experience. He is now holding a position of Senior Research Engineer (Project Manager) in the Centre for Renewable and Sustainable Energy Studies at University of Stellenbosch, appointed in 2020. A Certified Energy Manager and Certified Measurement and Verification Professional, Dr Kaseke is a seasoned energy professional with great enthusiasm and unquenchable thirst to achieve successful design, implementation, commissioning and performance evaluation of energy projects.

### Recent Selected Projects and Relevant Work experience

| Year        | Project and human capital management                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
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| 2012 - 2020 | <ul style="list-style-type: none"> <li>Managing financial matters (invoicing, project costing, budgeting and projections) related to M&amp;V project as well as other externally funded project.</li> <li>Conducting detailed Energy Audits and identifying Energy Management Opportunities for various clients.</li> <li>Identifying research opportunities in the Energy sector in general and Energy Efficiency, Demand Response as well as Renewable Energy in particular.</li> <li>Fundraising for projects from government and industry.</li> <li>Developing M&amp;V guidelines for special funding models.</li> <li>Quality Assurance (QA) function (Performing energy data integrity checks and ensuring energy metering and all M&amp;V functions and deliverables conform to acceptable guidelines and standards – SANS50010, IPMVP and SANAS accreditation requirements).</li> <li>Human Capital Development (Skills development &amp; Post graduate student supervision)</li> <li>Liaising with key project stakeholders and partners, compile and submit project status and quarterly or annual progress reports to funders.</li> <li>Consulting with industrial and local government clients on potential energy projects,</li> </ul> |



develop and present business plans for funding as well as act as technical advisor overseeing the implementation and performance evaluation of approved projects.

**List of relevant projects:** Mining EE and LM projects (Harmony Gold, Richards Bay Minerals, Sibanye Gold, Anglo-American Platinum), Industrial and Commercial EE and LM Projects (City Lodge Hotels -nationwide EE lighting, ABI KZN, Nampak, Transnet Rail, KFC - nationwide EE lighting), DoE-funded SWH Mass Rollouts in NMBM, Rustenburg Municipality (EE Building Lighting, EE Street Lighting, EE Traffic Lights), NMBM (EE Building Lighting, EE Street Lighting & EE Traffic Lights), Eastern Cape CFL Mass Rollouts in BCM and Transkei areas, Ceres Fruit Growers PV, Black River Pak PV, etc.

## Publications and Presentations

- Over 300 technical evaluation reports written and presented to project stakeholders as well as published on the National Monitoring and Evaluation Centre's online system ([www.nmec.co.za](http://www.nmec.co.za)).
- R. Kaseke and E. L. Meyer, "Design and performance evaluation of an isolated arduino-based power meter for smart power nodes". *Southern Africa Telecommunications Networks and Applications Conference 2017*, Freedom of the Seas, Royal Caribbean International, Barcelona, Spain. 03-10 September 2017. Pp 332-336, ISBN: 978-0-620-76756-9.
- C. Makosa, E. Meyer, J. Nwodo, R. Kaseke and R. Taziwa (2017), "Characterization and Classification of a 5-kW Xenon Lamp Solar Simulator with an Ellipsoidal Reflector". *62nd South African Institute of Physics Conference*, University of Stellenbosch, South Africa, 4th to 7th July 2017.
- Buma C.L., Meyer E.L., Taziwa R., Overen K., Kaseke R. (2017), "Correlative analysis of a data acquisition system for a building integrated photovoltaic system". *8th Renewable Energy Postgraduate Symposium*, University of Stellenbosch, South Africa, 12th to 24th July 2017.
- N. Ntsizi, R. Kaseke, E. L. Meyer, "Energy-use optimization tool for off grid small-scale renewable energy systems". *7th Renewable Energy Postgraduate Symposium*. University of Fort Hare, Alice, South Africa, 4th to 6th September 2016.
- R. Kaseke, "Green Energy for rural, off grid communities", *Green Village Workshop*, Ditsela Place, Hatfield, Pretoria. 21st November 2013.
- R. Kaseke, "Measurement and Verification Standard Guideline for Small-scale Renewable Energy", *Eskom Stakeholder Meeting*, Eskom Academy of Learning, Midrand (November 2012)
- R. Kaseke, E. L. Meyer, "Novel Quasi-Autonomous Corona-based Power Supplies for Remote Telecommunication Repeaters under Overhead HVDC Power Transmission", *44th Universities Power Engineering Conference (UPEC)*, University of Strathclyde, Glasgow, Scotland. 1st to 4th September 2009
- R. Kaseke, E. L. Meyer and H. N. Muyingi, "The concept of quasi-autonomous corona-based power supplies", *IEEE PES PowerAfrica 2007 Conference and Exposition*, University of Witwatersrand, Johannesburg, South Africa. 16th to 20th July 2007
- R. Kaseke and E.L. Meyer, "PV power system sizing for information and communication devices in schools outside the utility grid", *World Renewable Energy Congress IX*, Florence, Italy. 19th to 25th August 2006.
- R. Kaseke and E.L. Meyer, "Photovoltaic-powered Wireless Communication System for Rural Schools outside National Utility Grid", *IEEE PES 2005 Inaugural Conference and Exposition in Africa*, UKZN, Durban, South Africa. 11th to 15th July 2005.\*

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\* Awarded prize for the Best IEEE Power Engineering Society Paper.