
Green information technology for sustainability elicitation in government-based organisations: an exploratory case study

Bokolo Anthony Junior*,
Mazlina Abdul Majid and Awanis Romli

Faculty of Computer Systems and Software Engineering,
Universiti Malaysia Pahang,
Lebuhraya Tun Razak, 26300,
Gambang, Pahang, Malaysia
Email: bkanjr@gmail.com
Email: mazlina@ump.edu.my
Email: awanis@ump.edu.my

*Corresponding author

Abstract: This study aims to identify the components that influence green IT practice for sustainability elicitation in government-based organisations and further propose a model based on the identified components. The model is verified by adopting case studies by interview and sustainability documents from seven informants in two government-based organisations. Findings from the case studies indicate that organisations propensity to implement green IT practices is based on motivational pressure, practitioners actions, IT governance polices, infrastructures utilised to implement green IT practices which influences sustainability achievement. In addition, findings from this study reveal that government-based organisations in Malaysia are implementing green IT practices to help improve organisational process, effectively decrease IT utilisation cost and also expand organisations opportunities thus heading toward sustainability. Furthermore, this research provides an agenda on how sustainability emerged in government-based organisations through insights from the existing literature and practice-based evidence from the case studies.

Keywords: case studies; environmental protection; government-based organisations; green IT components; green IT practice; sustainability.

Reference to this paper should be made as follows: Anthony Jr., B., Majid, M.A. and Romli, A. (2018) 'Green information technology for sustainability elicitation in government-based organisations: an exploratory case study', *Int. J. Sustainable Society*, Vol. 10, No. 1, pp.20–41.

Biographical notes: Bokolo Anthony Junior is currently a PhD candidate in the Computer Science at the Faculty of Computer Systems and Software Engineering, Universiti Malaysia Pahang. His research interest includes sustainability, green IT/IS adoption and implementation, risk assessment, risk mitigation, and IT governance.

Mazlina Abdul Majid is currently an Associate Professor at the Faculty of Computer Systems and Software Engineering, Universiti Malaysia Pahang in Faculty of Computer Systems and Software Engineering, Universiti Malaysia Pahang. She received her PhD in Computer Science from the University of