

## Assoc Prof Sr Dr Nur Azfahani Ahmad

**Senior Lecturer of UiTM Perak**

**Green Campus Coordinator of UiTM Perak**

**Green Campus Branch Coordinator of UiTM Green Centre (UGC)**

**Registered Building Surveyor of RISM (MyRBS)**

**Member of Green Safe Cities Research Interest Group (RIG) UiTM**

**Editor of Malaysian Journal of Sustainable Environment (MySE)**

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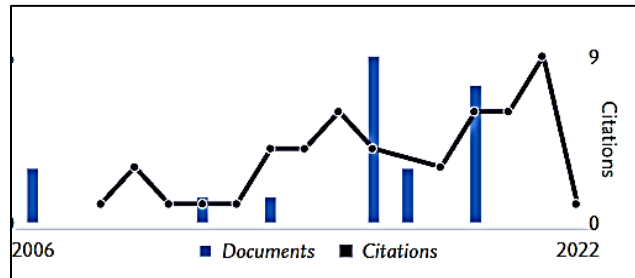
### FIELD OF RESEARCH:

**Renewable Energy** with a focus on: Solar Energy, Photovoltaic (PV)

**Green Technology Adoption** with a focus on: Energy Efficiency, Energy Audit, Energy Management,

**Sustainable Lifestyles** with a focus on: Building Performance, Community-based Approach, Lighting Strategies Efficiency. Ventilation and Passive Cooling Approaches

Citations	293	232
h-index	8	7
i10-index	8	4
Scopus h-index	4	



- **Scopus ID:** 57190857876
- **Google Scholar ID:** <https://scholar.google.com/citations?user=knCBFxsAAAAJ&hl=en>
- **ORCID ID:** 0000-0002-1798-649X
- **Research Gate ID:** 2178774085 (<https://www.researchgate.net/profile/Nur-Ahmad-19>)
- **Publons:** <https://publons.com/researcher/4836185/nur-azfahani-ahmad/>
- **Web of Science Researcher ID:** ABF-3662-2021

### (I) ACADEMIC QUALIFICATION

- **PhD in Architecture (2014)** The University of Auckland, New Zealand  
*Thesis Title: Solar "Kampong": Community Power Supply for Low-Income Households In Rural Malaysia*
- **MSc in Building Services Engineering Management (2004)**, Heriot-Watt University, Scotland  
*Thesis Title: Building Services Installation Performance in Suspended Ceiling and Raised Floor – For Commercial Buildings*
- **Bachelor in Building Surveying (Hons) (2002)**, UiTM, Malaysia
- **Diploma in Building Surveying (2000)**, UiTM, Malaysia

### (II) PROFESSIONAL APPOINTMENT/ AFFILIATION/MEMBERSHIP

#### Professional Affiliations:

- Malaysian Registered Building Surveyor (MyRBS) since 2018 (National)
- Royal Institution of Surveyors Malaysia, Professional Member, Since 2005 (National)
- Association Of Building Engineers UK, Member, 2005 - 2010, (International)
- Member of Malaysian Society for Engineering & Technology (MySET) Since 2011
- Member of Malaysian Green Building Confederation (MGBC) 2021
- Member of Malaysia Green Technology Society (MGTS) 2021

#### Industry Appointment:

- Member Of Industry Expert Committee (IEC): Sustainability Under Human Resource Development Corporation (HRD Corp), Kementerian Sumber Manusia (Since 2020)

**Memberships:**

- Member, The University of Auckland Alumni, NZ (since 2015)
- Member, Heriot-Watt University Alumni, UK (since 1/10/2004).
- Member, MARA University of Technology Alumni (since 2001)
- Member, Perak Heritage Society (since 1 Januari 2005).

**(III) RESEARCH GRANTS**

- FRGS – **Sustainable Solar Community Nexus Model in Malaysia** (2018 – 2022) – Project Leader
- FRGS - **Profiling Key Characteristics Malaysian Dwelling Aligned to The Smart Grid System** (2019 – till date) - Project Member
- FRGS - **Proposed Predictive Machine Learning Models of Reverse Migration in Malaysia** (2020 – till date) - Project Member
- UiTM Internal Grant MyRA – **Defect Management Model for Residential Building** (2021 – till date) - Project Member
- Geran Khas Insentif Penyeliaan Perak (GKIPP) – **Engaging FELDA Community With Solar Technology During Flood Disaster** (2017) – Project Leader
- Geran Khas Insentif Penyeliaan Perak (GKIPP) - **The Performance Of Various Egg Crate Sun Shading Device Design Configuration In Improving Daylight Penetration In Multi-Storey Student Residential Building** (2018) - Project Member

**(IV) SUPERVISORY**

Graduated 1 PhD, 6 MSc students

## a) Main Supervisor – PhD

Bil.	Tajuk	Nama Seliaan / Organisasi	Pengajian	Tempoh Penyeliaan
1.	Energy Resilience during Flood Disaster with the aid of Solar Technologies: A Case Study of FELDA's Communities	Siti Jamiah Tun Jamil/UiTM	PhD (AP992)	2016 – 2022 <b>(Graduated)</b>
2.	Adopting Housing Design towards Smart Grid System in Malaysia	Ahmad Haqqi Nazali/UiTM	PhD (AP991)	2018-ongoing
3.	Smart tool application framework in Identifying Mould Growth for Universities in Malaysia: Towards sustainable maintenance procedure	Zaimah Zainal Abidin	PhD (AP991)	2022-ongoing

## b) Main Supervisor - Master

Bil.	Tajuk	Nama Seliaan / Organisasi	Pengajian	Tempoh Penyeliaan
4.	Green Electricity: A Feasibility Study of Solar Electrification for PDRM	Md Hafiz Mat Yasin / PDRM	MSc	2015 – 2016 <b>(Graduated)</b>
5.	Optimum Lighting Strategies towards Green Studios in UiTM Perak	Muhammad Anas bin Othman/ UiTM Perak	MSc	2016 – 2019 <b>(Graduated)</b>
6.	Energy Audit for Malaysian Universities: Towards Energy Efficiency Performance in UiTM Tapah	Mohammad Hilmi Dzulkefli/Global FM	MSc	2016 – 2020 <b>(Graduated)</b>
7.	Humidity-based Defect in University's Accommodation	Zaimah Zainal Abidin	MSc	2018-2021 <b>(Graduated)</b>
8.	Critical Factor on Solar Engagement for Communities in Rural Perak	Nur Sahida Abdul Rahman	MSc	2019 - ongoing
9.	Significance House Elements towards Smart Home Appliances Adaptation in Cyberjaya	Ahmad bin Azmin	MSc	2021 - ongoing

c) Co-Supervisor – PhD

Bil.	Tajuk	Nama Seliaan / Organisasi	Pengajian	Tempoh Penyeliaan
10.	Defect Management Model with the Integration of Green Technology	Ahmad Muaz/UiTM	PhD	2020 – ongoing
11.	Non-Technical Barriers for Residential Ownerships in Renewable Energy Projects	Mohammad Bakri/TNB	DBA	2020-ongoing

d) Co-Supervisor – Master

Bil.	Tajuk	Nama Seliaan / Organisasi	Pengajian	Tempoh Penyeliaan
12.	The Influence of sun shading devices in reducing solar heat gain	Khairul Azmi bin Mohamed/Politek nik Ipoh	MSc	2017 - 2021 <b>(Graduated)</b>
13.	Energy Performance through BIM Adoption in UiTM Tapah	Ahmad Firdaus	MSc	2018-2022 <b>(Graduated)</b>

## (V) PROJECTS/CONSULTATIONS/PROFESSIONAL ADVISORY/COMMUNITY

### 2022

- Installation of Solar Photovoltaic Panels For Lighting Systems (1 kW system) 6 units – Sek Men Sultam Muhammad Shah, Parit, collaboration with HEP UiTM Perak
- Installation of Solar Photovoltaic Panels For Lighting Systems (1 kW system) 30 units - Green Technology Projects for Puncak Iskandar Residential Area, collaboration with Majlis Daerah Perak Tengah (MDPT), UiTM and Puncak Iskandar Community

### 2021

- Installation of Solar Photovoltaic Panels For Lighting Systems (1 kW system) 15 units - Green Technology Projects for Sek Keb Chopin in Parit, Perak (2021), collaboration with PPD Perak Tengah
- Installation of Solar Photovoltaic Panels For Lighting Systems (1 kW system) 7 units - Green Technology Projects for Sek Keb Seri Iskandar in Seri Iskandar, Perak (2021), collaboration with PPD Perak Tengah

### 2020

- Installation of Solar Photovoltaic Panels For Lighting Systems (1 kW system) 2 units - Green Technology Projects for Surau Al-Munawarrah, Puncak Iskandar in Seri Iskandar, Perak (2020)
- Installation of Solar Photovoltaic Panels For Lighting Systems (1 kW system) - Green Technology Projects for UiTM Perak Entrance Lake in Seri Iskandar Campus, Perak (2020)

### 2019

- Installation of Solar Photovoltaic Panels For Lighting Systems (1 kW system) - Green Technology Projects for Maahad Tahfiz Addnin 2 (MTQ-2) in Parit, Perak (2019)
- Installation of Solar Photovoltaic Panels for USB Charging Hub and Lighting Systems (600 W system) – For MRSM Lenggong in Perak (2019)
- Installation of Solar Photovoltaic Panels for USB Charging Hub and Lighting Systems (600 W system) – For Masjid Bandar University in Seri Iskandar, Perak (2019)

### 2018

- Installation of Rain Water Harvesting System (RWHS) for Fertigation Farm at MRSM Lenggong in Perak (2018)

### 2017

- Installation of Solar Photovoltaic Panel for USB Charging Point and Lighting System (300 W system) for Bench Area for Library of UiTM Perak (2017)

### 2016

- Installation of Solar Photovoltaic Panel for Solar Mini Home (150 W) for Faculty of Architecture, Planning and Surveying, in UiTM Perak (2016).

## (VI) INVITED SPEAKER/KEYNOTE SPEAKERS/ADVISORY TEAM/JURY

- **INVITED SPEAKER** - Webinar Series] Affordable Clean Energy - Perspective From Sustainable Development Goals (Tarikh: 23hb April 2022), MALAYSIA GREEN BUILDING COUNCIL (MGBC) Northern Chapter
- **UiTM SPEAKER** – Architecture Lecture Series, Topik: Solar Panels System Design (Tarikh: 11hb Mei 2020) Jabatan Senibina, Fakulti Senibina, Perancangan dan Ukur, UiTM
- **KEYNOTE SPEAKER** - Green Energy Webinar 2020, Topik : Green Technology in Building (Date: 28 August 2020), University College of Technology Sarawak (UCTS)
- **INVITED SPEAKER** – Building Surveying Practices, Topik: Condition Survey Practices and Its Important” (Date: 14 Disember 2020), Universiti Malaysia Perlis.
- **NATIONAL KEYNOTE SPEAKER** – National Conference on Sustainable Cities 2019, Topik : "Establishing Sustainable Cities in Malaysia: A Way Forward" (Date: 28 August 2020), Politeknik Ungku Omar
- **GUEST SPEAKER** – Persidangan Bangunan Nasional 2 (2018): Topik: “*Adopting Green Technologies for Better Building Performance*”, Dewan Bandaraya Kuala Lumpur & Royal Institution Of Surveyors Malaysia (RISM)
- **Invited Panel**, Curricular Review, IKM Lumut, Perak, 2018
- **EXPERT TASK FORCE UiGM** UiTM Green Centre, 2021
- **NATIONAL JURY**- The National Building Surveying Award 2021, Royal Institution of Surveyors Malaysia (RISM)

## (VII) ACADEMIC RECOGNITIONS

- **Anugerah Pensyarah Aktif (Khidmat Masyarakat)** 2019, Anugerah Akademik Universiti (AAU) 2019, UiTM Perak
- **Anugerah Penyelia Terbaik** 2017, Anugerah Akademik Universiti (AAU) 2017, UiTM Perak
- **Anugerah Akademik Harapan** 2016, Anugerah Akademik Universiti (AAU) 2016, UiTM Perak
- **Anugerah Perkhidmatan Cemerlang** ('Excellent Service Award') 2008, 2015, 2021 UiTM Perak
- **Anugerah Pensyarah Aktif (Penulisan/Penerbitan)** ('Active Staff Award – Publication'), 2009 UiTM Perak

## (VIII) PUBLICATIONS

### a. Book

Nur Azfahani Ahmad, Rasidah Mohd Sakip (Eds)(2022), Green Initiatives Report – Green Movement in UiTM Perak (2020-2021), 978-967-2776-0-9-3, (Published 2022), UiTM Perak Press (<https://online.fliphtml5.com/vrhmq/zhfi/#p=1>)

Nur Azfahani Ahmad (2009), Building Services Installation in Suspended Ceiling and Raised Floor – For Commercial Buildings, VDM Verlag, Germany, Published May 2009 [ISBN 987-639-13758-3]

### b. Journals

Ahmad B.R., Nur Azfahani A., Nor Haniza I. 2006. Part 1 - *The Effects of Design on the Maintenance of Public Housing Buildings in Malaysia*. Published in Building Engineer Journal, United Kingdom. Volume 81 No 4 April 2006, pp 30-33. [ISSN 0969-8213]

Ahmad B.R., Nur Azfahani A., Nor Haniza I. 2006. Part II - *The Effects of Design on the Maintenance of Public Housing Buildings in Malaysia*. Published in Building Engineer Journal, United Kingdom. Volume 81 No 4 May 2006, pp 334-336. [ISSN 0969-8213]

Nur Azfahani Ahmad, *A Review on the Usage of Suspended Ceiling in Providing Building Services Installation in Commercial Buildings*. Published in The Malaysian Surveyor, The Institution of Surveyors, Malaysia, 2009

Ahmad, N. A., & Abdul-Ghani, A. A. (2011). *Towards Sustainable Development in Malaysia: In the Perspective of Energy Security for Buildings*. Procedia Engineering, 20(0), 222-229. doi: 10.1016/j.proeng.2011.11.159

Ahmad, N. A., & Byrd, H. (2013). *Empowering Distributed Solar PV Energy For Malaysian Rural Housing: Towards Energy Security And Equitability Of Rural Communities*. International Journal Of Renewable Energy Development (IJRED), 2(1), 59-68. Retrieved from <http://www.ijred.com/index.php/ijred/article/view/93>

- Ahmad, N. A., & Byrd, H. (2016), Solar Village in Malaysia – A Route Map for Financing Mechanism, EDP Science, doi: 10.1051/matteconf/20166600057
- AAA Ghani, MY Hamid, SN Haron, NA Ahmad (2016), Methods in Mapping Usability of Malaysia's Shopping Centre - MATEC Web of Conferences, 2016, doi: 10.1051/matteconf/20166600117
- SNA Wahab, NI Mohammed, MF Khamidi, NA Ahmad (2016), Sampling And Identifying Of Mould In The Library Building - MATEC Web of Conferences, 2016, doi; 10.1051/matteconf/20166600070
- MHM Yasin & NA Ahmad (2016), The Green Electricity: The Potential of Using Solar PV Panel for The Royal Malaysian Police (RMP) Building – EDP Science, 2016, doi: 10.1051/matteconf/20166600090
- Siti Jamiah Tun Jamil, Nur Azfahani Ahmad (2017), Solar Public Engagement: The Prospective Study On FELDA Community In Malaysia, IOP Conference Series: Earth and Environmental Science, 2017, 67[1]
- Muhammad Anas Bin Othman, Nur Azfahani Ahmad, Azizah Md Ajis (2017), Daylight strategies for architectural studio facilities: The Literature Review, IOP Conference Series: Earth and Environmental Science, 2017, 67[1]
- Nur Huzeima Mohd Hussain, Hugh Byrd, Nur Azfahani Ahmad (2017), The Urban Migrant Future Desire: A Study of Reverse Migration in Malaysia, Malaysian Journal Of Sustainable Environment Vol 3 (2), pp 178-192, 2017
- Muhammad Anas Bin Othman, Nur Azfahani Ahmad (2017), The Benefit of Climate Neutral Principles Design in Malaysian Construction Industry, Journal of Applied Environmental and Biological Sciences Vol 7(5S), pp 16-19, 2017
- Siti Jamiah Tun Jamil, Nur Azfahani Ahmad, Jasrul Jamani Jamian (2018), Connecting Felda Communities With Solar Electrification During Flood Disaster: The Methodology, Malaysian Journal Of Sustainable Environment Vol 4(2), 57-76, 2018.
- Che Ahmad, A., Husin, N., Farrita Mohd Kamar, I., & Azfahani Ahmad, N. (2018). Sustainable Design and Construction Activity as Element for Green Highways in Tropical Climate. International Journal of Engineering & Technology (IJET), 8(1.5), 49-56. doi:http://dx.doi.org/10.14419/ijet.v8i1.5.25018
- Ahmad, N.A., Salleh, A.A., Tun Jamil, S.J. (2019), A Case Study On The Potential Photovoltaic Applications In Langkawi Island, Journal of Sustainability Science and Management (JSSM), Volume 14 Number 3, June 2019: 35-42
- Ahmad, N.A., Ahmad, A.C., Byrd, H., Hussain, N.H (2019), Establishing Solar Village Communities In Malaysia Towards A Self-Sufficient Electricity Lifestyle: The Feasibility Study, International Journal of Innovative Technology and Exploring Engineering (IJITEE), ISSN: 2278-3075, Volume-8 Issue-5S March, 2019
- Nur Azfahani Ahmad, Zuraihana Ahmad Zawawi, Nazhatulzalkis Jamaludin, Khairulliza Ahmad Saleh (2019), Ventilation Flow Evaluation System for Sustainable Housing Development, Jurnal Inovasi Malaysia (JURIM), 02 (02), pp 55 – 70
- Norazmi Anas, Nur Azfahani Ahmad, Nur Huzeima Mohd Hussain, Asmalia Che Ahmad, Zuriani Yaacob (2020), The Nexus Of Green Strategies In Ascertaining Sustainable Private Tahfiz Institutions In Malaysia: A Proposed Model, International Journal of Advanced and Applied Sciences (IJAAS), 7(11) 2020, pp: 119-124
- Nur Azfahani Ahmad, Nur Huzeima Hussain, Norazmi Anas, Jasrul Jamani Jamian (2020), Pemasangan Panel Solar Bagi Menampung Bekalan Elektrik Tambahan Untuk Institusi Pendidikan Agama Persendirian di Luar Bandar: Melalui Pendekatan Program Kemasyarakatan Komuniti, Malaysian Journal of Sustainable Environment (MySE), 7, Issue 2, pp 155-179

Khairul Azmi Mohamed, Asmat Ismail, Nur Azfahani Ahmad (2020), The Effects Of Internal Partition On Indoor Daylighting Performance Of Student Residential Building In Ipoh, Perak, Malaysian Journal of Sustainable Environment (MySE), 7, Issue 2, pp 1-22

Zaimah Zainal Abidin, Nur Azfahani Ahmad (2020), Dampness Assessment Diagnosis in Malaysian University's Accommodation with the Application of Thermal Imager, International Surveying Research Journal (ISrJ), RISM, Volume 7, Year 2020, pp 5 – 18

Nur Azfahani Ahmad, Jasrul Jamani Jamian (2021), The Installation of Solar Photovoltaics for Charity Homes In Rural Malaysia: A Community-Based Approach, The International Journal of Smart Grid and Clean Energy (IJSGCE), Vol. 10, No. 4, October 2021, pp 278 – 285

Bakri Zamri, Mohd Afandi Abu Bakar, Nur Azfahani Ahmad (2021), Non-technical barriers of Small-Scale Solar Renewable Energy (SSSRE) adoption among TNB domestic customers in Malaysia – A literature review, Journal of Islamic, Social, Economics and Development (JISED) (Volume 6, No. 36, May 2021, Pp 18 - 29)

Nur Sahida Abdul Rahman; Nur Azfahani Ahmad (2021), Exploring the significant factors in engaging solar energy application for children home in Perak: A case study of Sultan Abdul Aziz Children Home in Kuala Kangsar, Perak, Journal of Islamic, Social, Economics and Development (JISED), (Volume 6, No. 36, May 2021, pp. 195 – 208

Othman, M.A., Ahmad, N.A., Haron, S.N., Jaafar, A.S., The Assessment of Significant Passive Daylighting Strategies In Educational Studio (ES) Of University Buildings, Malaysian Construction Research Journal(MCRJ), 2022, 16(2), pp. 29–44

### **c. Proceedings/Conference Papers**

Adi Irfan, Ahmad Ramly, Nur Azfahani A., (2007). *The Development of Timber Defects Prioritise Ranking System*, One Day Seminar on Conservation of Historic Buildings and Monuments, Universiti Malaya, 2007

Adi Irfan, Ahmad Ramly, Norngainy Mohd Tawil, Nor Haniza Ishak, Nur Azfahani Ahmad. (2008), *Facility Management In Stratified Housing: Identifying Management Gap In Malaysia*, The 11th International Conference on Durability of Building Materials and Components, Istanbul, Turkey, 11-14 May 2008.

Ahmad Ramly, Nor Haniza Ishak, Nur Azfahani Ahmad, Yacob Omar.(2008). *Prioritizing Timber Defects - A Study of Telapak Naning House, Malacca, Malaysia*, The 11th International Conference on Durability of Building Materials and Components, Istanbul, Turkey,11-14 May 2008.

Adi Irfan C.A.,Nor Haniza I.,Ahmad R.,Zuhairuse M.D.,Ahmad Ezanee H.,Nur Azfahani A. 2008, *Evaluation of Timber Defects - The Quantitative Approach.*, 10th International Surveyors' Congress, Institution of Surveyors Malaysia, Kuala Lumpur, 27 June 2008

Nur Azfahani A, Nazhatulzalkis J. 2008, *The Effectiveness of Cross Ventilation in Traditional Malay Houses and Modern Houses*, Built Environment Research Seminar, UiTM Perak, 4 Dec 2008 (ISBN 978-983-43548-2-4).

Aida A, Nur Azfahani A, Noorazlina K., 2009, *Literature Review on Vandalism in Low Cost Flats*, Conference on Scientific and Social Research, Melaka, 14 - 15 Mac 2009 (ISBN 978-967-305-313-1).

Nur Azfahani A, Nazhatulzalkis J., 2009, *The Effectiveness of Cross Ventilation For Housing in Malaysia: By The Application of 'VelociCalc Plus Meter' and Ventilation Equations*, Conference on Scientific and Social Research, Melaka 14 - 15 Mac 2009 (ISBN 978-967-305-313-1).

A. Ramly, Nur Azfahani Ahmad, Adi Irfan Che Ani, N.M Tawil (2009), *The Effects of Design on Building Performance*, 1<sup>st</sup> Regional Symposium on Sustainable Construction Materials & Building Systems (SUCOMBS), Boulevard Hotel, Kuala Lumpur, 12 October 2009.

Nur Azfahani Ahmad, Nazhatulzalkis Jamaludin, Prof Dr Ahmad bin Ramly (2009), *The Effectiveness Of Cross Ventilation for Traditional Malay Houses In Malaysia: Case Study Of 'Kutai' House In Perak*, International

Conference on Engineering, Environment, Economic, Safety and Health (CONVEESH '09), Manado, Sulawesi, Indonesia, 26- 27<sup>th</sup> October 2009 (ISBN 978-979-17509-7-4)

Aida Affina Abd Ghani, Nur Azfahani Ahmad, Noorazlina Kamarulzaman (2009), *Vandalism in Low Cost Flats in Kuala Lumpur*, 1<sup>st</sup> National Conference on Environment-Behaviour Studies, UiTM Shah Alam, 14-15<sup>th</sup> November 2009 (ISBN 978-967-305-448-0)

Nur Azfahani Ahmad, Mohamad Amzar Taib (2008), *The Effectiveness of Natural Ventilation for Hospital Building in Malaysia: Towards Sustainability of Medical Buildings*, International Conference in Built Environment for Developing Countries (ICBEDC) 2nd - 3th Dec 2009, Penang, Malaysia

Nur Azfahani Ahmad, Nazhatulzalkis Jamaludin, Khairulliza Ahmad Salleh (2010), *Sistem Ranking Keberkesanan Pengudaraan Silang (SRPS) Bagi Iklim Tropika*, International Conference on Arts, Social Science and Technology (ICAST 2010), 24th -25th Februari 2010, Gurney Hotel, Penang

Nur A. Ahmad, Aida A. A., Ghani (2011), *Towards sustainable development in Malaysia: In the perspective of energy security for buildings*, The Second International Building Control Conference 2011, July 2011, Penang, Malaysia

Nur Azfahani Ahmad & Hugh Byrd (2011), *Solar Photovoltaics for Vernacular Housing in Rural Malaysia: Towards Energy Security and Equitability of Low-Income Groups*, Rehumanizing the Built Environment Proceedings (Vol 1), The 5th International Conference and Workshop on Built Environment in Developing Countries (6-7 Dec 2011), Penang, Malaysia, pp. 90-101, ISBN 978-967-394-061-5

N. Diyana Dahari & N. Azfahani Ahmad (2011), *Carbon Footprint Implementation in Facilities Management: Towards Cost Efficiency For Building*, Undergraduate Maintenance and Facilities Management Conference (UMFMC) 2011, Seri Iskandar, Perak, pp 7

Nur Azfahani Ahmad (2011), *Exploring Acceptance, Willingness and Engagement Of Public In Renewable Energy Project: Through The Context Of Solar Energy Technology In Malaysia*, 1st Malaysian Research Conference Auckland (MaRCA), 17 December 2011, The University of Auckland, pp 97-105

Nur Azfahani Ahmad & Hugh Byrd (2012), *The Electricity Load Profile For Supply And Demand: Towards The Feasibility Of Solar Energy In Malaysian Rural Housing*, Sustainable Future Energy Conference 2012, 21-23 Nov, Bandar Seri Begawan, Brunei

Nur Azfahani Ahmad & Hugh Byrd (2012), *Photovoltaics In Malaysia: Challenges And Strategies Towards Resilient Rural Areas In Malaysia*, International Malaysia Research Conference in Auckland (iMaRCA) 2012, Auckland, New Zealand

Nur Azfahani Ahmad & Hugh Byrd (2013), *Power From The People: The Empowerment Of Distributed Generation Of Solar Electricity For Rural Communities In Malaysia*, The Asian Conference on Sustainability, Energy and the Environment (ACSEE 2013), Osaka, Japan

Zurairhana, Nur Azfahani (2015), *The FM Standard Service Category*, Postgraduate Conference on Global Green Issues (GoGreen), UiTM Perak, 7-8 Okt 2015

Ahmad, N. A. & Byrd, H. (2016), *Solar Village in Malaysia – A Route Map for Financing Mechanism*, The 5<sup>th</sup> International Building Control Conference (IBCC 2016), 7 Mac, Kuala Lumpur

AAA Ghani, MY Hamid, SN Haron, NA Ahmad (2016), *Methods in Mapping Usability of Malaysia's Shopping Centre*, The 5<sup>th</sup> International Building Control Conference (IBCC 2016), 7 Mac, Kuala Lumpur

SNA Wahab, NI Mohammed, MF Khamidi, NA Ahmad (2016), *Sampling And Identifying Of Mould In The Library Building*, The 5<sup>th</sup> International Building Control Conference (IBCC 2016), 7 Mac, Kuala Lumpur

MHM Yasin & NA Ahmad (2016), *The Green Electricity: The Potential of Using Solar Pv Panel for The Royal Malaysian Police (RMP) Building*, The 5<sup>th</sup> International Building Control Conference (IBCC 2016), 7 Mac, Kuala Lumpur

Muhammad Anas Bin Othman, Nur Azfahani Ahmad, Azizah Md Ajis (2017), *Daylight strategies for architectural studio facilities: The Literature Review*, 2nd International Conference on Energy and Environmental Science (ICEES 2017), 22-24 January, Bangkok, Thailand

Siti Jamiah Tun Jamil, Nur Azfahani Ahmad (2017), *Solar Public Engagement: The Prospective Study On FELDA Community In Malaysia*, 2nd International Conference on Energy and Environmental Science (ICEES 2017), 22-24 January, Bangkok, Thailand

Zaimah Zainal Abidin, Nur Azfahani binti Ahmad , Alia binti Abdullah Salleh (2018), *Diagnosis On Defect Caused By Humidity In A University*, 3rd International Conference on Rebuilding Place (ICRP) 2018 (ISBN : 978-967-5741-63-0) 268 – 275

Muhammad Hilmi Dzulkefli, Nur Azfahani Ahmad, Haryati Mohd Isa (2018), *Assessing Energy Efficiency Potential in the Malaysian Universities: The Literature Review*, 3<sup>rd</sup> International Conference on Rebuilding Place (ICRP) 2018 (ISBN : 978-967-5741-63-0) 276 - 289

Ahmad Haqqi Nazali Abdul Razak, Nur Azfahani Ahmad, Sabarinah Sheikh Ahmad, Ermeey Abd Kadir and Siti Norsazlina Haron (2019), *A simulation methodology on grid displaced photovoltaic (PV) prospective for existing terrace house supply in Malaysian peninsular*, 3rd International Conference on Energy and Environmental Science (ICEES 2019), 26 – 29 January, Seoul, Korea

Siti Jamiah Tun Jamil, Nur Azfahani Ahmad and Jasrul Jamani Jamian (2019), *Connecting Solar Generated Electricity during Flood Disaster in the FELDA Communities of Malaysia: The Public Perception*, 3rd International Conference on Energy and Environmental Science (ICEES 2019), 26 – 29 January, Seoul, Korea

A F Latif, N A Ahmad, M R Abdullah, A Ismail, A A A Ghani (2019), *A Review on Energy Performance in Malaysian Universities Through Building Information Modelling (BIM) Adaptation*, 3rd International Conference on Energy and Environmental Science (ICEES 2019), 26 – 29 January, Seoul, Korea

Khairul Azmi, Asmat Ismail, Nur Azfahani Ahmad (2019), *Evaluation of Daylighting Performance in Existing Student Residential Building with Internal Partition*, 2nd International Postgraduate Conference on Global Green Issues (GoGreen 2019) (ISBN: 978-967-5741-92-0) 19-27

Zaimah Zainal Abidin, Nur Azfahani binti Ahmad, Alia binti Abdullah Salleh (2019), *Rising Damp Study in UiTM Perak's Accommodation: A Pilot Study*, 2nd International Postgraduate Conference on Global Green Issues (GoGreen 2019) (ISBN: 978-967-5741-92-0) 54 – 65

Muhammad Akram Ismail, Nur Azfahani Ahmad, Nadiyah Mat Nayan (2019), *Malaysian Green Building Index (GBI) and its Application for Green Mosques: The Literature Review*, 2nd International Postgraduate Conference on Global Green Issues (GoGreen 2019) (ISBN: 978-967-5741-92-0), 116 – 120

Nur Sahida Abdul Rahman, Nur Azfahani Ahmad, Nur Huzeima Hussain (2019) *Sustainable solar community lifestyles in Malaysia : the preliminary study* / Nur Sahida Abdul Rahman, Nur Azfahani Ahmad and Nur Huzeima Hussain. In: GoGreen 2019 : 2nd International Postgraduate Conference on Global Green Issues, 17 September 2019, Impiana Hotel, Ipoh, (ISBN: 978-967-5741-92-0) 64 -73

### **c. Chapter in Book**

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Ahmad, N. A & Jamaludin, N. (2010). *Keberkesanan Pengudaraan Semulajadi Bagi Dalaman Rumah – Kajian Impak Ke Atas Telapak Naning*, Melaka, Dalam buku UfoRIA UiTM (Ed.) *Isu-isu Kontemporari Malaysia: Dapatan inisiatif penyelidikan* (jil. 4) (m.s. 93-107). Seri Iskandar, MY: UfoRIA Universiti Teknologi MARA (UiTM Perak)

Ahmad, N. A., & Byrd, H. (2011). *Exploring Acceptance, Willingness and Engagement Of Public In Renewable Energy Project: Through The Context Of Solar Energy Technology In Malaysia*, in Rahman, Embong, Razali & Alias (Eds), *Malaysian Research Auckland (MaRCA)*, (pp 97-105), The University of Auckland.

Ahmad, N. A., & Byrd, H. (2012). *Photovoltaics In Malaysia: Challenges And Strategies Towards Resilient Rural Areas In Malaysia*, in Rahman, Embong, Razali & Alias (Eds), *Advancing Innovative Knowledge Towards a Resilient Future*, (pp 52-73), Victoria University of Wellington



Ahmad, N. A., & Byrd, H. (2015). Meeting the challenge of Solar Electrification in Rural Malaysia: A Case Study of Sibu island, Johor, in *Akademika*, UiTM Perak (Jil. 2) (pp 1-7) Seri Iskandar, MY: UfoRIA Universiti Teknologi MARA (UiTM Perak)

Alia Abdullah Salleh, Zuraihana Ahmad Zawawi, Nur Azfahani Ahmad (2019), *Sustainable Facilities Management In Higher Learning Institutions: Barriers And Commitment In Facility Management In The 21st Century*.1st Edition, (pp 55 -63), Penerbit UTHM

#### **d. Newspaper**

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Nur Azfahani Ahmad (2007) – *Atasi Bangunan Cacat (To Prevent Defect In Buildings)*, Published in *Utusan Malaysia*, Article Column, 14 May 2007, pp 10.

Nur Azfahani Ahmad (2008) – *Kesan Penilaian Alam Sekitar Patut Dipatuhi (Environmental Impact Assessment Need to Be Enforced)*, Published in *Utusan Malaysia*, Article Column, 10 Dec 2008, pp 10.

Nur Azfahani Ahmad (2011) – *Alternatif Harga Bahan Api Petrol*, Published in *Utusan Malaysia*, Article Column, 5 Feb 2011, pp 10.

Nur Azfahani Ahmad dan Wan Samsul Zamani (2016) – *Menjamin Keselamatan Warga Sekolah*, Published in *Utusan Malaysia*, Article Column, 17 Mac 2016, pp 10.

Irwan Mohamad Ali dan Nur Azfahani Ahmad (2021) - *Utama Promosi Kampus Hijau*, *Lestari*, Published in *Berita Harian*, Komentor Column, 19 Mei 2021.

### **(IX) PRESENTATIONS**

#### **a. Paper Presentation**

*Literature Review on Vandalism in Low Cost Flats*, Conference on Scientific and Social Research, 14 - 15 Mac 2009

*The Effectiveness of Cross Ventilation For Housing in Malaysia: By The Application of 'VelociCalc Plus Meter' and Ventilation Equations*, Conference on Scientific and Social Research, 14 - 15 Mac 2009

*The Effectiveness of Cross Ventilation in Traditional Malay Houses and Modern Houses*, Built Environment Research Seminar UiTM Perak 2008, 4 Dec 2008. Universiti Teknologi Mara Perak.

*The Development of Timber Defects Prioritise Ranking System*, One Day Seminar on Conservation of Historic Buildings and Monuments, Universiti Malaya, Hotel Nikko, 2007, Kuala Lumpur

*Keberkesanan Pengudaraan Semulajadi Bagi Dalaman Rumah – Kajian Impak Ke Atas Telapak Naning (The Effectiveness of Natural Ventilation for Internal of House – Impact Study on Telapak Naning, Melaka)*, Seminar Kontemporari Negeri Perak Ke-14, UiTM Perak, 23 Oktober 2009, Perak

*The Effectiveness Of Cross Ventilation for Traditional Malay Houses In Malaysia: Case Study Of 'Kutai' House In Perak*, International Conference on Engineering, Environment, Economic, Safety and Health (CONVEEESH '09), Manado, Sulawesi, Indonesia, 26- 27<sup>th</sup> October 2009

Nur Azfahani Ahmad & Hugh Byrd (2011), *Solar Photovoltaics for Vernacular Housing in Rural Malaysia: Towards Energy Security and Equitability of Low-Income Groups*, *Rehumanizing the Built Environment Proceedings (Vol 1)*, The 5th International Conference and Workshop on Built Environment in Developing Countries (6-7 Dec 2011), Penang, Malaysia, pp. 90-101, ISBN 978-967-394-061-5

Nur Azfahani Ahmad & Hugh Byrd (2012), *The Electricity Load Profile For Supply And Demand: Towards The Feasibility Of Solar Energy In Malaysian Rural Housing*, *Sustainable Future Energy Conference 2012*, 21-23 Nov, Bandar Seri Begawan, Brunei

Nur Azfahani Ahmad & Hugh Byrd (2013), *Power From The People: The Empowerment Of Distributed Generation Of Solar Electricity For Rural Communities In Malaysia*, The Asian Conference on Sustainability, Energy and the Environment (ACSEE 2013), Osaka, Japan

Nur Azfahani Ahmad & Hugh Byrd (2016), *Solar Village in Malaysia – A Route Map for Financing Mechanism*, The 5<sup>th</sup> International Building Control Conference (IBCC 2016), 7 Mac 2016, Kuala Lumpur

## b. Poster Presentation

*Vandalism Analysis At Low Cost Flat Housing In Kuala Lumpur*, One Day Seminar on Knowledge Sharing in Construction Industry, Faculty of Architecture, Planning and Surveying, UiTM Shah Alam, Malaysia (4<sup>th</sup> August 2009)

*Solar Photovoltaics For Low-Income Groups: Towards Diminishing Inequality Power Supplies For South East Asia*, Nur Azfahani Ahmad, Hugh Byrd & Paola Leardini, Exposure Postgraduate Research Exposition (October 2012), The University of Auckland, New Zealand

*Energy And Equity In Malaysia: The Potential Of Distributed Renewable Energy For Low-Incomegroups In Rural Malaysia*, Nur Azfahani Ahmad & Hugh Byrd, World Urban Forum 6 UN-Habitat, *Networking Event: Coasts, cities and climate change in small island developing states in the Pacific - problems to be addressed* (3rd Sept 2012), Naples, Italy.

*Solar Photovoltaics For Low-Income Groups: Towards Diminishing Inequality Power Supplies For South East Asia*, Nur Azfahani Ahmad, Hugh Byrd & Paola Leardini, International Malaysia Research Conference in Auckland (iMaRCA) 2012, Auckland, New Zealand (7<sup>th</sup> Dec 2012)

*Power From The People*, Nur Azfahani Ahmad & Hugh Byrd, Graduate Research Conference U21 (Systems, Policy & Solutions), University College Dublin 2013, Dublin, Ireland (19-22 June 2013)

## (X) RECENT SELECTED INNOVATION/PRODUCT/AWARDS

### a. Innovation/Product

Award	Members	Project	Name of Event	Location
<b>Gold Medal Award</b>	Sr Dr Nur Azfahani Ahmad Dr Khairulliza Ahmad	BSR 551 ENERGY PERFORMANCE CALCULATOR	INNOVATORS 2022	UITM
<b>Silver Medal Award</b>	Sr Dr Nur Azfahani Ahmad Mohd Nurfaizal Baharuddin, Irwan Mohammad Ali, Mohd Khazli Aswad, Haziq Syazwan Sajali	SOLAR CHARGING HUB FOR RURAL COMMUNITY APPLICATION (SCHROMA)	INODEX 2021	USM
<b>Silver Medal Award</b>	Asniza Hamimi, Nur Azfahani Ahmad, Asmalia Che Ahmad, Wan Rabiah Wan Omar, Azhan Abdul Azizi	GRE711 – Research Methodology	e-Content Development Competition 2021	UiTM
<b>The Best In Invention Category For Class A (Professional, Academic &amp; Industry)</b>	Sr Dr Nur Azfahani Ahmad Mohd Nurfaizal Baharuddin Azman Zainonabidin	COMMUNITY SOLAR CHARGING HUB @ MOSQUE	INDES 2020	UiTM Perak
<b>Gold Medal Award</b>	Sr Dr Nur Azfahani Ahmad Mohd Nurfaizal Baharuddin	COMMUNITY SOLAR	INDES 2020	UiTM Perak

	Azman Zainonabidin	CHARGING HUB @ MOSQUE		
<b>Gold Medal Award</b>	Siti Jamiah Jamil, Nur Azfahani Ahmad, Jasrul Jamani Jamian	Solar Project Engagement	EPIC 2018	UiTM Terengganu
<b>Gold Medal Award</b>	Nur Azfahani Ahmad, Mohd Fadzil Yasin, Aida Affina Abd Ghani, Norida Maziantie Muhammad, Zuraihana Ahma Zawawi, Nur Fadhilah Bahardin	Solar Charging Hub	INDES 2016	UiTM Perak
<b>Gold Medal Award</b>	Nur Azfahani Ahmad, Nazhatulzalkis Jamaludin, Khairulliza Ahmad Salleh, Zuraihana Ahmad Zawawi	Ventilation Flow System	INDES 2015, June 2015	UiTM Perak
<b>Gold Medal Award</b>	Nur Azfahani Ahmad, Nazhatulzalkis Jamaludin, Khairulliza Ahmad Salleh	CVRS - Cross Ventilation Ranking System For Houses in Tropical Countries	Invention, Innovation and Design Exhibition 2010 (IID 7 <sup>th</sup> ), 14 <sup>th</sup> January 2010	UiTM Malaysia
<b>Best of the Best Award, Gold Medal Award, Best Poster Award</b>	Nur Azfahani Ahmad, Nazhatulzalkis Jamaludin, Khairulliza Ahmad Salleh	SRPS Software - Ranking System: The Effectiveness Of Cross-Ventilation For Tropical Residential Housing	Research, Invention and Innovation Expo 2009, 14 <sup>th</sup> October 2009,	UiTM Perak, Malaysia.
<b>Silver Medal Award</b>	Nur Azfahani Ahmad, Nazhatulzalkis Jamaludin, Khairulliza Ahmad Salleh, Zuraihana Ahmad Zawawi	Ventilation Flow Evaluation System	i-EIE 2019, Eureka Innovation Exhibition, October 2019	UNIKL- Malaysian Spanish Institute, Kulim, Kedah
<b>Silver Medal Award</b>	Nur Azfahani Ahmad, Nazhatulzalkis Jamaludin, Khairulliza Ahmad Salleh,	Cross Ventilation Ranking System For Houses in Tropical Countries	Malaysia Technology Exhibition 2010 (MTE 2010), 25 <sup>th</sup> - 27 <sup>th</sup> February 2010,	PWTC Kuala Lumpur
<b>Silver Medal Award</b>	Nur Azfahani Ahmad, Nazhatulzalkis Jamaludin, Khairulliza Ahmad Salleh, Zuraihana Ahmad Zawawi	Ventilation Flow System	i-IDEA 2016, Mac 2016	UiTM Perlis
<b>Bronze Medal Award</b>	Nur Azfahani Ahmad, Md Yusof Hamid, Sallehan Ismail, Mohd Aizat Zulkefli	University Solar Chargung Hub (U-Hub),	IIID Johor 2018, 5 Aug 2018	UiTM Johor
<b>Bronze Medal Award</b>	Nur Azfahani Ahmad, Muhammad Anas bin Othman, Azizah Md Ajis	Manual Daylighting Design Template (MDDT): Passive Lighting Strategies	ICDC 18, Oct 2018	UiTM Perak
<b>Bronze Medal Award</b>	Adi Irfan, Nur Azfahani Ahmad, Ahmad bin	The Development of	Research, Invention and	University Malaya

	Ramly, Nor Haniza Ishak (2007)	<i>Timber Defects Prioritise Ranking System</i>	Innovation Expo 2007, 26 – 28 July 2007	
<b>Bronze Medal Award</b>	Nur Azfahani Ahmad, Aida Affina Abd Ghani, Mariaty Mohd Bahari, Suriani Ngah Abd Wahab	E-Inventory for Design Based Project	Teaching and Learning Innovation Challenge 2015	UiTM Perak Kampus Tapah

## b. Paper/Presentation Awards

**Best Paper Awards (Category: Architecture)**, Nur Azfahani Ahmad & Hugh Byrd (2011), Solar Photovoltaics for Vernacular Housing in Rural Malaysia: Towards Energy Security and Equitability of Low-Income Groups, Rehumanizing the Built Environment Proceedings (Vol 1), The 5th International Conference and Workshop on Built Environment in Developing Countries (6-7 Dec 2011), Penang, Malaysia

**Best Paper Awards**, Nurul Diyana Dahari & Nur Azfahani Ahmad (2011), Carbon Footprint Implementation in Facilities Management: Towards Cost Efficiency For Building, Undergraduate Maintenance and Facilities Management Conference 2011, Seri Iskandar, Perak, pp 7

**Best Paper Awards (Conceptual/Review Paper for Science and Technology)**, Nur Azfahani Ahmad & Hugh Byrd (2012), Photovoltaics In Malaysia: Challenges And Strategies Towards Resilient Rural Areas In Malaysia, International Malaysia Research Conference in Auckland (iMaRCA) 2012, Auckland, New Zealand

**Best Presenter Award**, Nur Azfahani Ahmad, Solar Village in Malaysia – A Route Map for Financing Mechanism, The 5<sup>th</sup> International Building Control Conference (IBCC 2016), Kuala Lumpur

## c. Poster Awards

**Special Prizes Contribution to Environmental Sustainability Prize** (2012), Nur Azfahani Ahmad, Hugh Byrd & Paola Leardini, Exposure Postgraduate Research Exposition (October 2012), The University of Auckland, New Zealand

## d. Career Awards

- Anugerah Pensyarah Aktif (Khidmat Masyarakat) 2019, Anugerah Akademik UiTM Perak
- Anugerah Penyelia Terbaik 2017, Anugerah Akademik UiTM Perak
- Anugerah Akademik Harapan 2016, Anugerah Akademik UiTM Perak
- Anugerah Perkhidmatan Cemerlang (*‘Excellent Service Award’*) 2008, 2015, 2021 UiTM Perak
- Anugerah Pensyarah Aktif (Penulisan/Penerbitan) (*‘Active Staff Award – Publication’*), 2009 UiTM Perak

## (XI) UNDERGRADUATE SUPERVISION

### Supervision – Undergraduate Thesis

Semester/Year	Student’s Name	Research Title
Mac-Sept 2015	Mohd Ariffin Ahmad	Rainwater Harvesting for Moqque in Kuala Lumpur
Mac-Sept 2015	Mohammad Ali bin Abdullah	Night Ventilation for Passive Indoor Cooling in Residential Houses
Jan – July 2017	Nur Sahida binti Abdul Rahman	Day lighting Strategies for Green Classroom in UiTM Perak
Apr 2017 – Jan 2018	Muhammad Afiq Aiman bin Mohd Ghazali	Assessing the feasibility of Rain Water Harvesting technology for UiTM Perak
Sept 2017 – Jun 2018	Muhammad Amirul Asraf bin Mohd Nordin	Prospective Study on the low cost integrated RWH system for mosque in Perak Tengah
Jun 2018 – Jan 2019	Aliah Tasnim	Rising Damp Defect in University’s Accommodation
Jan 2019 – Kini	Nur Hamizah Suhaimi	Awareness towards Rainwater Harvesting Installation for flood area in Kelantan

Nov 2020 - Oct 2021	Muhammad Iqbal Abdullah	The assessment on sustainable operation and procedure for rural road maintenance in Tanjung Malim: With the provision of JKR. Green Criteria
Nov 2020 - Oct 2021	Nurul Aqeesya Binti Abdul Aziz	The Explanatory Study on Natural Ventilation Provisions for Terrace Houses in Kelantan: With The Adoption of UBBL
Nov 2020 - Oct 2021	Mohd Iqbal Khan	The study on green edible garden towards establishing sustainable communities in Perak
October 21 - February 22	Nurul Najwa binti Ismail	A comparative study on energy saving implementation between heritage mosque and modern mosque in Penang.

## (XII) PROFESSIONAL / COMMUNITY SERVICE

### Professional

- Head of Junior Organisation (JO) Committees for RISM BS Division (since 2018 - 2020)
- Administrator for E-Alumni Building Surveyor Malaysia, Official FB Page for RISM BS Division (Since 2009) (<https://www.facebook.com/groups/78154486590/>) – Promoting Building Surveying role and function to the alumni of BS through online discussion, sharing new information and news.
- Reviewer for Renewable Energy Journal (Scopus, Q2) (Since 2017 until now)
- Editor for Malaysian Journal of Sustainable Environment (MySE), UiTM Perak

### Community Service

- Member of UNICEF New Zealand (2011 to 2015) – Charity and humanitarian works around New Zealand and overseas.
- Secretary of Malaysia Auckland Postgraduate Student Association (MAPSA), Auckland, New Zealand (2011/2012) – Dealing with Malaysian student activities in Auckland, New Zealand
- Monthly Donator for National Kidney Foundation (NKF) (since 2016 until now)
- Head of Community Service Project for Green Technology Projects for Maahad Tahfiz in Parit, Perak and MRSM Lenggong, Perak (2019)