PROFILE

✓ **DESIGNATION:** PROFESOR IR. DR.
✓ **NAME:** NOFRI YENITA BINTI DAHLAN
✓ **EMAIL:** nofriyenita012@uitm.edu.my
✓ **FACULTY:** KOLEJ PENGAJIAN KEJURUTERAAN
✓ **JABATAN:** INSTITUT PENYELIDIKAN SOLAR UIT (SRI)
✓ **START SERVICE DATE:** 01-July-2005

QUALIFICATION

🏷 DOCTOR OF PHILOSOPY (ELECTRICAL & ELECTRONIC ENGINEERING) (PHD), MANCHESTER UNIVERSITY, MANCHESTER

🏷 M.SC. IN ELECTRICAL POWER ENG. (SARJANA (MASTER)), MANCHESTER UNIVERSITY, INST OF SCI. & TECHNICAL (UMIST)

🏷 JURUTERA PROFESIONAL (ELECTRICAL) N.P: 19015 (KELAYAKAN PROFESIONAL), LEMBAGA JURUTERA MALAYSIA

🏷 BA(HONS) ELECTRICAL POWER ENG. (IJAZAH SARJANA MUDA (KEPUJIAN)), UNIVERSITI TENAGA NASIONAL (UNITEN)

FIELD

DIVISION OF EXPERTISE: ENGINEERING TECH
CATEGORY OF EXPERTISE: ENGINEERING AND TECHNOLOGY
GROUP OF EXPERTISE: ELECTRICAL AND ELECTRONIC ENGINEERING
AREA OF EXPERTISE: POWER SYSTEM
RESEARCH NEXUS UiTM (ReNeU): ENERGY & ENVIRONMENT (EE)

H-INDEX OF SCOPUS	H-INDEX OF WOS	H-INDEX OF GOOGLE SCHOLAR
12	6	11

Research (Active) —

+ Developing A Carbon Credit Aggregation Framework For Retrofitted Buildings In Malaysia
2025 – 2026 | Other Grants (OTHER GRANTS) | Project Member | RM 50,033.00 | Active

+ Sustainability Assessment And Benchmarking Of Solar Photovoltaic Farms In Malaysia
2024 – 2025 | Dinamik Postdoc (DINAMIK POSTDOC) | Principal Investigator | RM 60,000.00 | Active

+ Development Of Artificial Intelligence Model For Estimation, Analysis And Prediction Of Soiling And Pv Losses For Solar Photovoltaic Plants
2024 – 2026 | Biaya Terus (BIAYA TERUS) | Project Member | RM 198,785.00 | Active

+ Hybrid Architectures Artificial Neural Network (ann) Model For Identifying And Assessing Photovoltaic (pv) System Environmental Losses And Their Impact On Solar Pv Systems

2024 – 2026 | Fundamental Research Grant Scheme (FRGS) | Project Member | RM 139,000.00 | Active

+ Pembangunan Instrumen Dan Pelaksanaan Kajian Indeks Integriti Malaysia
2024 – 2025 | Other Grants (OTHER GRANTS) | Project Member | RM 500,000.00 | Active

+ Energy Resilience Assessment Of Uitm Solar Power Plants
2023 – 2025 | Strategic Research Partnership (SRP) | Project Member | RM 50,000.00 | Active

+ Uct34673:transforming Energy Access-learning Partnership (tea-lp)
2023 – 2025 | Other Grants (OTHER GRANTS) | Project Member | RM 96,025.00 | Active

+ Techno Economic Study Of A Hybrid Solar Battery System Under Net Energy Metering (nem) Scheme For Uitm Solar Rooftop
2023 – 2025 | Geran Insentif Penyelidik Q (GIPQ) | Project Member | RM 20,000.00 | Active

+ Cadangan Perlantikan Perunding Institut Pengurusan Penyelidikan Dan Inovasi (irmi), Universiti Teknologi Mara (uitm) Bagi Perkhidmatan Perundingan Dan Pembangunan Sistem Profiling Bangunan Dan Integrasi Data Pengukursan Tenaga Projek Pusat Bandar Shah Alam Untuk Majlis Bandaraya Shah Alam
2021 – 2022 | Contract Research (CR) | Project Member | RM 50,000.00 | Active

+ Electron Movement In Nitrogen-doped Graphene For Anti-reflective Coating (arc) Top Layer Material
2021 – 2025 | Fundamental Research Grant Scheme (FRGS) | Project Member | RM 134,160.00 | Active

Research (Completed) —

+ Sustainability Assessment And Benchmarking Of Solar Photovoltaic Farms In Malaysia
2023 – 2024 | Dinamik Postdoc (DINAMIK POSTDOC) | Principal Investigator | RM 68,400.00 | Completed

+ Facilitating A Just, Fair And Affordable Energy Transition In The Asia Pasific
2022 – 2022 | Other Grants (OTHER GRANTS) | Principal Investigator | RM 251,366.00 | Completed

+ Kajian Analisa Prestasi Kewangan Dan Tadbir Urus Syarikat Induk Dan Anak Syarikat Uitm
2022 – 2022 | Bestari Td (BESTARI TD) | Project Member | RM 125,000.00 | Completed

+ Achieving Carbon Neutrality By 2050. Comparative Study Of Cities Decarbonization Policies And Practices In Japan And Malaysia
2022 – 2024 | Other Grants (OTHER GRANTS) | Project Member | RM 17,600.00 | Completed

+ Development Of Energy Guidelines For Malaysia Energy Efficiency Conservation Act
2021 – 2022 | Contract Research (CR) | Principal Investigator | RM 56,000.00 | Completed

+ Optimum Energy Management Strategy With Nem Etou Tariff For Campus Building With Solar Photovoltaic Rooftop Using Improved Particle Swarm Optimisation
2021 – 2022 | Geran Insentif Penyeliaan (GIP) | Principal Investigator | RM 18,000.00 | Completed

+ Cadangan Perlantikan Perunding Institut Pengurusan Penyelidikan Dan Inovasi (irmi), Universiti Teknologi Mara (uitm) Bagi Penyediaan Pelan Tindakan Rendah Karbon 2035 Untuk Majlis Bandaraya Shah Alam
2021 – 2022 | Contract Research (CR) | Project Member | RM 150,000.00 | Completed

Publication (Indexed) —

+ Hybrid Load Forecasting Considering Energy Efficiency And Renewable Energy Using Neural Network
2024 | JOURNAL | 13 | 4 | 759 – 768

+ Modelling Soil Deposition Predictions On Solar Photovoltaic Panels Using Ann Under Malaysia's Meteorological Condition
2024 | JOURNAL | 13 | 4 | 796 – 805

+ Evaluation Of The Time-of-use Tariff Responsiveness For Plug-in Electric Vehicle Home Charging In Malaysia
2024 | JOURNAL | 13 | 4 | 769 – 776

+ Enhanced Load Forecasting Using Cnn–bilstm Models In University Buildings With Solar Pv
2024 | JOURNAL | 11 | 10 | 61 – 70

+ Optimizing Photovoltaic Systems For Power Losses Reduction Under Time–varying Loads: A Coyote Optimization Approach
2024 | PROCEEDING | N/A | N/A | 226 – 231

+ Solving Combined Economic Emission Dispatch Problems Using Multi–objective Hybrid Evolutionary–barnacles Mating Optimization
2024 | PROCEEDING | 10 | N/A | 71 – 77

+ Optimization Method For Integrating Dg And Bess With Time–varying Loads In The Distribution Networks: A Review
2024 | PROCEEDING | N/A | N/A | 72 – 77

+ An Innovative Fast Iterative Process Algorithm Computerization For Intermittency Lsspv Generation Reconfiguration
2024 | JOURNAL | 13 | 3 | 628 – 638

+ Optimal Location And Sizing Of Battery Energy Storage System Using Grasshopper Optimization Algorithm
2024 | JOURNAL | 13 | 3 | 647 – 654

+ Cost–effective Strategy For The Deployment Of Charging Stations For Electric Vehicles Using Flower Pollination Algorithm
2024 | JOURNAL | 13 | 3 | 202 – 211

+ Machine Learning Baseline Energy Model (mlbem) To Evaluate Prediction Performances In Building Energy Consumption
2024 | JOURNAL | 14 | 4 | 15938 – 15946

+ The Effect Of Occupant In Energy Consumption Prediction Via Multiple Linear Regression Model In An Educational Building
2024 | CHAPTER IN RESEARCH BOOK | N/A | N/A | 95 – 101

+ Enhancing Photovoltaic System Maximum Power Point Tracking With Fuzzy Logic–based Perturb And Observe Method
2024 | JOURNAL | 14 | 3 | 2386 – 2399

+ Evaluating Microgrid Business Models For Rural Electrification: A Novel Framework And Three Cases In Southeast Asia
2024 | JOURNAL | 80 | N/A | 1 – 18

+ Research Overview And Outcomes: Just Transitions To Decarbonisation In The Asia–pacific
2024 | JOURNAL | 11 | N/A | 53 – 77

+ Navigating Energy And Climate Justice In Southeast Asia: Perspectives And Pathways
2024 | JOURNAL | 11 | N/A | 1 – 11

+ Forecasting Meteorological Impacts On The Environmental Sustainability Of A Large–scale Solar Plant Via Artificial Intelligence–based Life Cycle Assessment
2024 | JOURNAL | 912 | N/A | 1 – 11

+ Optimizing Solar Pv Investments: A Comprehensive Decision–making Index Using Critic And Topsis
2024 | JOURNAL | 49 | N/A | 100551 – 100565

+ Anomaly Detection Using K–means And Long–short Term Memory For Predictive Maintenance Of Large–scale Solar (lss) Photovoltaic Plant
2023 | JOURNAL | 9 | N/A | 154 – 158

+ Solar Power Prediction Based On Artificial Neural Network Guided By Feature Selection For Large–scale Solar Photovoltaic Plant
2023 | JOURNAL | 9 | N/A | 262 – 266

+ Optimum Energy Management Strategy With Nem–etou For Campus Buildings Installed With Solar Pv Using Epso
2023 | JOURNAL | 9 | 12 | 54 – 59

+ Energy Resilience Assessment Model Based On Risk Matrix Analysis And Monte Carlo Simulatation For Large–scale Solar Photovoltoic Plant
2023 | JOURNAL | 12 | 3 | 72 – 83

+ Technoeconomic Assessment Of Electric Vehicles For Optimal Microgrid Energy System Planning
2023 | JOURNAL | 12 | 2 | 666 – 685

+ An Analysis Of Hybrid Renewable Energy System Using Homer Pro: A Case Study In Sungai Tiang Camp, Perak
2023 | JOURNAL | 31 | 3 | 79 – 92

+ A Review Of Optimization Approaches For Optimal Sizing And Placement Of Battery Energy Storage System (bess)

2023 | PROCEEDING | N/A | N/A | 258 – 262

+ Modelling Base Electricity Tariff Under The Malaysia Incentive-based Regulation Framework Using System Dynamics
2023 | JOURNAL | 13 | 2 | 1231 – 1240

+ Modelling Base Electricity Tariff Under The Malaysia Incentive-based Regulation Framework Using System Dynamics.
2023 | JOURNAL | 13 | N/A | 1231 – 1240

+ Educational Building's Energy Consumption Independent Variables Analysis Using Linear Regression Model: A Comparative Study
2023 | PROCEEDING | N/A | N/A | 202 – 207

+ Investigation Of Critical Time Analysis Considering Shunt Compensation Interconnecting Wecc Spv Model
2022 | PROCEEDING | N/A | N/A | 197 – 202

+ An Optimal Compensation Schemes Decision Framework For Solar Pv Distributed Generation Trading: Assessing Economic And Energy Used For Prosumers In Malaysia
2022 | JOURNAL | 8 | Supplement 10 | 536 – 544

+ A Decade Of Solar Pv Deployment In Asean: Policy Landscape And Recommendations In Energy Reports
2022 | JOURNAL | 8 | 10 | 460 – 469

+ Prospects And Challenges Of Malaysia's Distributed Energy Resources In Business Models Towards Zero – Carbon Emission And Energy Security
2022 | JOURNAL | 11 | 4 | 1089 – 1100

+ Optimum Energy Management Strategy With Enhanced Time Of Use Tariff For Campus Building Using Particle Swarm Optimisation
2022 | JOURNAL | 28 | 2 | 644 – 653

+ Roles Of Medicinal Mushrooms As Natural Food Dyes And Dye-sensitised Solar Cells (dssc): Synergy Of Zero Hunger And Affordable Energy For Sustainable Development
2022 | JOURNAL | 14 | 21 | 13894 – 13899

+ Solar Thermal Technology Acceptance Among Small Medium Enterprises (sme) In Six District Council In Selangor Malaysia
2022 | JOURNAL | 11 | 3 | 323 – 330

+ Determinants Of Residential Consumers' Acceptance Of A Utility-scale Battery Energy Storage System In Malaysia: Technology Acceptance Model Theory From A Different Perspective
2022 | JOURNAL | 15 | 16 | 1 – 17

+ Assessing Techno-economic Value Of Battery Energy Storage With Grid-connected Solar Pv Compensation Schemes For Malaysian Commercial Prosumers
2022 | JOURNAL | 12 | 2 | 759 – 767

+ Short Term Forecasting Of Electrical Consumption Using A Neural Network: Joint Approximate Diagonal Eigenvalue
2022 | JOURNAL | 26 | 1 | 56 – 66

+ Forecasting Generation Of 50mw Gambang Large Scale Solar Photovoltaic Plant Using Ann-pso
2022 | JOURNAL | 12 | 1 | 10 – 18

+ Malaysia Residential Load Profile Management Based On Time Of Use Tariff Using Ant Colony Optimization Algorithm
2022 | JOURNAL | 17 | 3 | 232 – 242

+ Energy Efficiency Initiatives For A Hospital Building In Malaysia
2021 | JOURNAL | 88 | 3 | 145 – 155

+ The Upshot Of Generation Mix Variation In Electricity Tariff Via System Dynamics Approach: Malaysia Circumstances
2021 | JOURNAL | 19 | N/A | 193 – 202

+ Simultaneous Load Management Strategy For Electronic Manufacturing Facilities By Using Epso Algorithm
2021 | JOURNAL | 18 | 3 | 193 – 214

+ Assessing Socio And Techno-economic Impacts Of Hybrid Renewable Energy System With Energy Storage For A Rural Development In Malaysia
2021 | JOURNAL | 11 | 2 | 673 – 690

+ Analysis The Energy Saving Of Chiller Plant (chip) Daily Operation By Using Optimal Projected Capacity Of Ice Thermal Energy Storage (ites)
2021 | PROCEEDING | 1874 | 1 | N/A – N/A

+ **Computational Intelligence Based Technique For Fuel Cost Minimization In Small And Bulk Power**
2020 | JOURNAL | 9 | 1 | 45 – 50

+ **Quantification Of Energy Savings From An Awareness Program Using Narx-ann In An Educational Building**
2020 | JOURNAL | 215 | 215 | 1 – 19

+ **Analysis Potential Benefit Of Energy Cost The Chiller Plant Operation Engaging With Tariff Scheme**
2020 | PROCEEDING | 1529 | 2020 | 1 – 10

Publication (Others)

+ **Performance Of Yellow And Pink Oyster Mushroom Dyes In Dye Sensitized Solar Cell**
2024 | JOURNAL | 14 | 1 | 1 – 19

+ **Energy Resilience Assessment Of A Rooftop/carpark Integrated Solar Pv System In Malaysia**
2024 | CHAPTER IN BOOK | N/A | N/A | 101 – 115

+ **Energy Access And Justice In The Asia-pacific**
2024 | JOURNAL | 11 | 7 | 1 – 53

+ **Green Practice Guideline For Construction Sector**
2024 | POLICY PAPER | 1 | 1 | 1 – 149

+ **Green Practice Guideline For Manufacturing Sector**
2024 | POLICY PAPER | 1 | 1 | 1 – 152

+ **Green Practice Guideline For Forest Operation Sector**
2024 | POLICY PAPER | 1 | 1 | 1 – 118

+ **Green Practice Guideline For Mining Sector**
2024 | POLICY PAPER | 1 | 1 | 1 – 130

+ **Green Practice Guideline For Fisheries Sector (aquaculture)**
2024 | POLICY PAPER | 1 | 1 | 1 – 122

+ **Green Practice Guideline For Agriculture And Plantation Sector**
2024 | POLICY PAPER | 1 | 1 | 1 – 153

+ **Sustainable Energy City: Learning From Japan's Model**
2023 | PROCEEDING | N/A | N/A | 1 – 9

+ **Green Practices Guideline For Fisheries Sector (aquaculture)**
2023 | POLICY PAPER | N/A | N/A | 1 – 124

+ **Green Practices Guideline For Manufacturing Sector**
2023 | POLICY PAPER | N/A | N/A | 1 – 152

+ **Green Practices Guideline For Mining Sector**
2023 | POLICY PAPER | N/A | N/A | 1 – 130

+ **Green Practices Guideline For Forest Operation**
2023 | POLICY PAPER | N/A | N/A | 1 – 118

+ **Green Practices Guideline For Services Sector**
2023 | POLICY PAPER | N/A | N/A | 1 – 123

+ **Green Practices Guideline For Livestock Sector**
2023 | POLICY PAPER | N/A | N/A | 1 – 129

+ **Green Practices Guideline For Agriculture & Plantation Sector**
2023 | POLICY PAPER | N/A | N/A | 1 – 153

+ **Green Practices Guidelines For Construction Sector**
2023 | POLICY PAPER | N/A | N/A | 1 – 149

+ **Green Practices Guideline For Construction Sector**
2023 | POLICY PAPER | N/A | N/A | 1 – 149

Supervision (Completed)   —

+ **Integrated Computational Intelligence Based Techniques For Solving Economic Power Dispatch Problem In Power System Planning, Operation And Security**
Co-Supervisor | Nor Laili Binti Ismail | SESI 1 2019/2020 | PHD

+ **Short-term And Long-term Power Generation Forecasting Model For Large Scale Solar Photovoltaic (lsspv) Plant**
Co-Supervisor | Hanis Nasuha Binti Amer | SESI 1 2022/2023 | MASTERS

+ **Hybrid Quantum-inspired Ais For Agent Based Modelling In Generation Expansion Planning For Liberalized Market**
Main Supervisor | Norlee Husnafeza Binti Ahmad | SESI 1 2017/2018 | PHD

+ **Measurement And Verification Methodology Baseline Modeling Using Artificial Neural Network**
Main Supervisor | Wan Nazirah Binti Wan Md Adnan | SESI 1 2015/2016 | PHD

+ **Solar Thermal For Heating Industries In Malaysia**
Main Supervisor | Anis Sabirin Bt Baharom | SESI 1 2015/2016 | PHD

Supervision (Ongoing) —

+ **Electrical Load Forecasting On Building With Solar Pv Rooftop Using Long Short Term Memory (lstm) Neural Network**
Main Supervisor | Muhammad Zulhamizan Bin Ahmad | SESI 1 2022/2023 | MASTERS

+ **Deep Learning-driven Predictive Maintenance For University Campus Solar Rooftop Systems Utilizing Attention Based Model For Anomaly Detection**
Co-Supervisor | Muhammad Afiq Bin Abd Jalil | SESSION 2 2023/2024 | MASTERS

+ **Sustainability Assessment Of Hybrid Renewable Energy System (hres) For Conservation Park In Malaysia**
Co-Supervisor | Nur Farzana Athirah Binti Mohd Fadzli | SESI 1 2022/2023 | MASTERS

+ **Tapchangers On Lv Network To Optimise Pv Capacity Injecting Into The Network**
Main Supervisor | Nur Fadhilah Binti Jamaludin | SESI 2 2020/2021 | PHD

+ **Integrated Stability Model Of Connected Solar Pv Investigation Based On Time Domain Analysis And Correlative Measures**
Co-Supervisor | Mashitah Binti Mohd Hussain | SESI 2 2020/2021 | PHD

+ **Optimum Energy Management Strategy Of Virtual Power Plant (vpp) Considering Net Energy Metering (nem) For Uitm Campuses.**
Main Supervisor | Nur Iqtiyani Binti Ilham | SESI 2 2020/2021 | PHD

+ **Optimum Energy Management Strategy With Nem-etou Tariff For Campus Building With Solar Photovoltaic Rooftop Using Improved Particle Swarm Optimisation**
Main Supervisor | Nurul Aqilah Binti Mahmud | SESI 1 2021/2022 | PHD

+ **Optimal Location And Sizing Of Hybrid Pv-battery Energy Storage Systems In Grid-connected Networks**
Co-Supervisor | Siti Nor Baizura Binti Zawawi | SESSION 1 2024/2025 | PHD

+ **Forecasting Large-scale Solar Photovoltaic Power Generation With Cloud-shading Impact Using Hybrid Model Of Integrated Fuzzy C-means And Random Forest Method**
Main Supervisor | Norhasnelly Binti Anuar | SESI 1 2021/2022 | PHD

+ **Analysis Of Power Factor Degradation Due To Photovoltaic Generation In Medium Voltage Distribution**
Co-Supervisor | Siti Salwa Mat Isa | SESI 1 2022/2023 | PHD

+ **Optimization Of Distrbuted Generator Placement And Load Shedding Strategies In Islanded Power System**
Co-Supervisor | Rohaizah Binti Mohd Ghazali | SESSION 1 2024/2025 | PHD

+ **Optimum Time-of-use (tou) Tariff Design Of Hybrid Demand Side Management (dsm) Technique Considering Plug-in-vehicle (pev) Load For Residential Electricity Consumer**
Main Supervisor | Nurliyana Binti Baharin | SESI 1 2021/2022 | PHD

Consultation (Appointed)

+ Virtual Power Plant (vpp) Technology
  2024 – 2025 | HEAD | Contract Research | RM 1,132,164.00 | APPOINTED

+ Certified Professional In Measurement And Verification (cpmv) Module Revision
  2024 – 2024 | HEAD | Contract Research | RM 54,848.64 | APPOINTED

Consultation (Completed)

+ Ai-based Predictive And Prescriptive Maintenance For Large-scale Solar Photovoltaic Plants Through String Fault Detection And Severity Classification
  2023 – 2024 | HEAD | Contract Research | RM 449,959.40 | COMPLETED

+ Cloud-based Energy Management System Using Artificial Intelligences For Virtual Power Plant (vpp)
  2022 – 2024 | HEAD | Contract Research | RM 2,440,204.80 | COMPLETED

+ Development Of Localised Unido Solar Thermal And Thermal Energy Efficiency Training Module
  2022 – 2022 | HEAD | Contract Research | RM 19,992.00 | COMPLETED

+ Development Of Energy Measurement And Verification Practices Training Module
  2021 – 2021 | HEAD | Professional Services | RM 49,820.00 | COMPLETED

Note : The displayed data is based on latest 5 years information.