

CURRICULUM VITAE

1. **Name:** Mahmoud Salah Ismail Ismail
2. **Date of Birth:** 26/6/1968
3. **Civil Status:** Married
4. **Education:** - General Secondary Certificate in Scientific Branch
- B.Sc in Electrical Engineering
- M.Sc in Clean Energy & Energy Conservation Engineering
- Ph.D. in Renewable Energy

Institution	Degree(s) or Diploma(s) obtained	Year	Average
University of Malaya	Ph.D.	2014	Excellence Reward
An-Najah National University	M.Sc	2009	96.6 (Excellent)
University of Jordan	B.Sc	1991	76.3 (Very good)
Al-Fadiliyyah Secondary School	General Secondary Certificate	1986	90.5 (Excellent)

5. **Language Skills:** Indicate competence on a scale of 1 to 5 (1 – excellent; 5 – basic)

Language	Reading	Speaking	Writing
Arabic(mother)	1	1	1
English	1	2	1

6. **Membership of professional bodies:** Palestinian Engineers Association
7. **Other Skills:** Computer Skills, Programming Skills(Matlab, C++), Autocad
8. **Present Position:** Vice President for Academic Affairs assistant; Lecturer
9. **Key Qualifications:** - Curriculum Development –Training sessions (1998, 2000)
- Participation in developing the curriculum of the Industrial Automation Diploma Program (1998)
- Participation in preparing the Electrical Engineering program curriculum –PTUK-Kadoorie(1999)
- Evaluation of diploma programs (2001, 2002)
- Programmable Logic Controllers (2000,2003)
- Industrial Drives (2004)
- Robotics (2005)
- PLC Networking and Supervision (2008)
- MATLAB SIMULINK for Motor drives (2009)
- PSOC and FPGA (2009, 2010)
- Digital Signal Processing (2010)
- Renewable Energy systems (2009, 2010)
- Developing course description and outline for master courses for the Joint Master in Electrical Engineering- in the field of Renewable Energy (2014, 2015).
10. **Rewards:**
 - Excellence award: The first in An-Najah National University graduation ranking (both undergraduate and graduate degrees in year 2009)
 - Excellence award: Ph.D completion in less than 3 years.
 - Excellence award: Number of Q1 publications during Ph.D.
11. **Professional Experience:**
 - Electrical engineer at Municipality of Tulkarm (Electrical Department) (1991-1993)
 - Head of Engineering Careers Department
 - Head of Engineering Careers Department
 - Lecturer of Electrical Eng. Courses at Palestine Technical University-Kadoorie (1993-till now)
 - Vice President for Academic Affairs assistant

12. B.Sc , M.Sc, and Ph.D. Thesis Titles:

- B.Sc in Electrical Engineering , Thesis Title : Signalling in Telecommunication Networks
- M.Sc in Clean Energy & Energy Conservation Engineering, Thesis Title: Simulation of a Hybrid Power System Consisting of Wind Turbine, PV, Storage Battery and Diesel Generator with Compensation Network: Design, Optimization and Economical Evaluation.
- Ph.D. in Renewable Energy (Electricity and Energy), Thesis title: Modelling and Optimal Design of Photovoltaic Based Hybrid Renewable Energy Systems.

13. Address:

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14. Publications in Journals:

- [1] **M. S. Ismail**, M. Moghavvemi, T.M.I. Mahlia, K.M Muttaqi, and S. Moghavvemi, "Effective utilization of excess energy in standalone hybrid renewable energy systems for improving comfort ability and reducing cost of energy: A review and analysis", **Renewable and Sustainable Energy Reviews**, vol. 42, pp. 726-734, 2015. [Q1]
- [2] **M. S. Ismail**, M. Moghavvemi, and T. M. I. Mahlia, "Genetic algorithm based optimization on modelling and design of hybrid renewable energy systems", **Energy Conversion and Management**, vol. 85, pp. 120-130, 2014. [Q1]
- [3] **M. S. Ismail**, M. Moghavvemi, and T. M. I. Mahli.a, "Design of an optimized photovoltaic and microturbine hybrid power system for a remote small community: Case study of Palestine", **Energy Conversion and Management**, vol. 75, pp. 271-281, 2013. [Q1]
- [4] **M.S. Ismail**, M. Moghavvemi, and T. M. I. Mahlia, "Energy trends in Palestinian territories of West Bank and Gaza Strip: Possibilities for reducing the reliance on external energy sources", **Renewable and Sustainable Energy Reviews**, vol. 28, pp. 117-129, 2013. [Q1]
- [5] M. Moghavvemi, **M. S. Ismail**, B. Murali, S. S. Yang, A. Attaran, and S. Moghavvemi, "Development and optimization of a PV/diesel hybrid supply system for remote controlled commercial large scale FM transmitters", **Energy Conversion and Management**, vol. 75, pp. 542-551, 2013. [Q1]
- [6] **M.S. Ismail**, M. Moghavvemi, and T. M. I. Mahlia, "Analysis and evaluation of various aspects of solar radiation in the Palestinian territories", **Energy Conversion and Management**, vol. 73, pp. 57-68, 2013. [Q1]
- [7] **M.S. Ismail**, M. Moghavvemi, and T. M. I. Mahlia, "Characterization of PV panel and global optimization of its model parameters using genetic algorithm", **Energy Conversion and Management**, vol. 73, pp. 10-25, 2013. [Q1]
- [8] **M.S. Ismail**, M. Moghavvemi, and T. M. I. Mahlia, "Techno-economic analysis of an optimized photovoltaic and diesel generator hybrid power system for remote houses in a tropical climate", **Energy Conversion and Management**, vol. 69, pp. 163-173, 2013. [Q1]
- [9] **M.S. Ismail**, M. Moghavvemi, T.M.I. Mahlia, "Design of a PV/Diesel standalone hybrid system for a remote community in Palestine." **Journal of Asian Scientific Research**, vol. 2, pp. 599-605, 2012.
- [10] **M.S. Ismail**, M. Moghavvemi, and T. M. I. Mahlia, "Current utilization of microturbines as a part of a hybrid system in distributed generation technology," **Renewable and Sustainable Energy Reviews**, vol. 21, pp. 142-152, 2013. [Q1]
- [11] Abdel-Karim Daud, **Mahmoud S. Ismail**, "Design of isolated hybrid systems minimizing costs and pollutant emissions", **Renewable Energy**, vol. 44, pp. 215-224, 2012. [Q1]
- [12] Abdel-Karim Daud, **M.Ismail**, Walid Kukhun, Marwan M. Mahmoud, "Simulation of a Hybrid Power System Consisting of Wind Turbine, PV, Storage Battery and Diesel Generator: Design, Optimization and Economical Evaluation", **International Journal of Energy Engineering (IJEE)**, vol. 1, pp. 56-61, 2011.

15. Presented in Conferences:

- [13] **M.S. Ismail**, "Feasibility of using microturbines instead of diesel generators as backup sources in PV/wind hybrid energy systems" Proceeding of the **Fifth International Energy Conference-Palestine**, 27-28January, 2015.
- [14] **M.S. Ismail**, M. Moghavvemi, T.M.I Mahlia. "Optimization of a PV/microturbine hybrid system for tropical climates". Proceeding of '**International Conference on Electric Power and Energy Conversion Systems (EPECS'13)**' that supported by IEEE and held in Yildiz Technical University-Istanbul, Turkey, pp. 569-574, October on 2-4th October 2013 (**978-1-4799-0688-8/13/\$31.00 ©20 13 IEEE**).
- [15] **M.S. Ismail**, M. Moghavvemi, T.M.I. Mahlia. "Design of a PV/Diesel standalone hybrid system for a remote community in Palestine" Proceeding of the '**International Conference on Engineering and Built Environment (ICEBE) 2012. UKM-Malaysia**' (2012).
- [16] **Mahmoud S. Ismail**, Marwan M. Mahmoud " Simulation of a Hybrid Power System Consisting of Wind Turbine, PV, Storage Battery and Diesel Generator: Design, Optimization and Economical Evaluation " Proceeding of the '**3rd Global Conference on Renewable Energy and Energy Efficiency for Desert Regions, Amman-Jordan**', 26-28 April, 2011.

- [17] **Mahmoud S. Ismail** , Marwan M. Mahmoud " Simulation of a Hybrid Power System Consisting of Wind Turbine, PV, Storage Battery and Diesel Generator: Design, Optimization and Economical Evaluation " Proceeding of the '**4th International Energy Conference, Palestine**' , 26-27January ,2011.

16. Under Review Papers:

- [18] **M. S. Ismail**, M. Moghavvemi, and T. M. I. Mahlia, "Economic and environmental evaluation of microturbines as backup sources in photovoltaic based hybrid renewable energy systems " submitted to "**Renewable Energy**" journal on March 2014(RENE-D-14-00377). (Under Review). **[Q1]**
- [19] L.J Olatomiwa, S. Mekhilef, **M.S. Ismail**, M. Moghavvemi, "Energy management strategies in hybrid renewable energy systems: A review" submitted to "**Renewable and Sustainable Energy Reviews**" journal on June 2014(RSER-D-14-01009). (Under Review). **[Q1]**
- [20] M. Moghavvemi, **M.S. Ismail**, A.S.T. Jong, S. Moghavvemie, "The prospect of implementing PV/diesel hybrid energy systems for rural electrification in eastern part of Malaysia" submitted to "**Renewable and Sustainable Energy Reviews**" journal on June 2014(RSER-D-14-00990). (Under Review). **[Q1]**

Data: 26.11.2015

Signature: Mahmoud Ismail

