

# Curriculum Vitae

## Personal Information:

**Name** : Imad Ibrik

**Date and place of birth** : January 29,1968 (Nablus)-Palestine

**Marital status** : Married

**Nationality** : Palestinian

**Address** : Nablus , West Bank – Palestine  
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## University Education:

- 1- Ph.D. in Power System Analysis, Vinnitsa State Technical University, Ukraine May 1996 (Honors degree).
- 2- M.Sc. in Electrical Power Engineering specialized in power supply of cities and industrial sector, Vinnitsa State Technical University – Ukraine Sept. 1992 (Honors degree).

## Scholarship :

- 1- Spain – Public University of Navarra, Pamplona City, advanced seminar on Renewable Energy from 17 – 22 May 2004.
- 2- Spain – Public University of Navarra, Pamplona City, Training courses on Solar and Wind Energy form 10 May – 25 June 2005.
- 3- Sweden – Royal Institute of Technology, Stockholm City, Training on Energy Technology Laboratories, from 30 Oct. – 5 November 2004 and from 8 – 15 January 2005.

**Areas of Specific Interest Include :**

Power system Analysis, Power Generation, Transmission and Distribution of Electrical Networks, Electrical Installation, Energy conservation, Solar and Wind Energy, and Economical and Environmental Impacts of Energy Systems

**Courses Taught :**

**A- Graduate level (Master degree).**

- Course Economics of Energy – 3 times.
- Course Energy conservation – 3 times.
- Course Introduction to Energy Technology – 3 times.
- Course Energy Audit and Management – 1 time.

**B- Undergraduate Level :**

- Course Power System Analysis – I – 2 times.
- Course Power System Analysis II – 2 times.
- Course Power System design and planning – 8 times.
- Course Energy conversion (station and substation) – 7 times.
- Course Electrical Installation – 8 times.
- Course CAD application in Power System – 8 times.
- Course Electrical Measurements – 3 times.
- Course Renewable Energy – One time.

## **Experience :**

- Director of Energy Research Centre, at An-Najah National University since October 2000.
- Coordinator of the master program “Clean Energy and Energy Conservation” , An- Najah University since, Sept. 2004.
- Associate professor in electrical engineering at electrical engineering department of An-Najah National University since October 2004.
- Assistant professor in electrical engineering at electrical engineering department of An-Najah National University , Sept. 1998 – Sept. 2004.
- Assistant professor in electrical engineering at electrical engineering department of Berziet University – Ramallah Sept. 1997 – Sept.1998.
- Member of the Scientific committee of engineering faculty since 1999.
- Visiting Research Follow, Renewable Energy Department, Public University of Navarra, Spain 2005.
- Establishment of the master program in “Clean Energy and Energy Conservation” at An-Najah National University including the study plans, regulations and implementation.
- Technical consultant for the electrical sector in Nablus Municipality , Oct. 1996 – December 2000 (part time).

## **Worked Project:**

- Establishment of Meteorological Stations - Five computerized meteorological data stations were established in the West Bank in different locations, the data base is used for research purposes and project planning and is made available for concerned parties in the Palestinian Authority. The project has been Financed through the European Union 75,000 US \$/ – 2001.

- Providing consultancy services for the project: “Energy Efficiency Improvement and Green House Gas Reduction” which is implemented by the Palestinian Energy Authority and Energy Research Centre – An-Najah National University with support of GEF and UNDP, 47850 US \$ - 2002 - 2004 .
- Providing consultancy services for the project “Efficiency Improvement of the electric power network of city Jenin”, Financed by Jenin Municipality. 15000 US \$ 2004.
- Coordinator of the project “clean Energy and conservation strategy MSc program” the project is carried out within the Tempus Joint European Project in a close – cooperation with the Royal Institute of Technology – Sweden and Berlin Technical University – Germany, Total Grand from EU 273630 Euro – 2004-2006.
- Coordinator of the project “Analysis of wind Potential for Power Generation in Palestine” , Pilot project funded by ministry of Higher Education in Palestine.
- Coordinator of the project “Boosting University industry cooperation” the project is carried out within the Tempus program in a close cooperation with the Alicante University – Spain and Saarland University – Germany, total grand from EU 104320 Euro – 2005.
- Coordinator of the project “Rural Electrification with micro grids with Solar Hybrid Generation in the community of Atouf ”, West Bank – Palestine, the project was granted from Spanish Agency for International cooperation , 273,000 Euro, 2007.
- Providing consultancy services in electrical projects for municipalities and villages in Palestine, 2000 - 2007.
- Providing Energy Audits for industrial sector in West Bank – Palestine, 2001- 2007.

### **Supervision of Master Thesis:**

- Optimum operation strategy and economic analysis of rural electrification a photovoltaic – diesel systems in the community of Atouf, by Asma Yasin.
- Energy efficiency improvement and cost saving measures in different industries in Palestine, by Basel Yaseen.
- Energy management procedures and audit results of electrical, thermal and solar applications in hospitals sector in Palestine, by Bashar Daas.
- Evaluation of a demand side management PV – diesel system in Biet Fourik electrical network , by Bassam abdel-ghani, joint supervision.
- Computer – aided design and performance evaluation of PV/Diesel hybrid system, by Moaien Omar, Joint supervision.
- Solar energy refrigeration by liquid – solid Adsorption technique, by Watheq Mahameed, joint supervision.

### **Computer Experience:**

\*Have extensive experience in computer application and power system modeling.

\*Power system Engineering Software:

- Power world simulator (load flow, optimization) software.
- PV SYST 3.4 – Photovoltaic system study software.
- 3 E plus . Industrial Energy Management.
- Energy Audit Software.
- WASP , the wind atlas analysis software .
- ENSI – Energy saving international software.
- Homer software – the optimization model for distributed power.

### **Selected Publications :**

- Imad H. Ibrik , Marwan Mahmoud – Techno-economic feasibility of energy supply of remote villages in Palestine by PV – systems, Diesel generators and electric grid, Renewable and Sustainable Energy Reviews 10 (2006) 128-138.

- Imad Ibrik, Marwan Mahmoud – Energy Efficiency Improvement Procedures and Audit Results of Electrical, Thermal and Solar Applications in Palestine, Elsevier – Energy Policy 33 (2005) 651-658 .
- Ibrik Imad – Modeling the Optimum Distribution of Active Power Between Plants by using “Thermal Function” , Elsevier – Electric Power System Research Journal , Volume 65 Issue (1) P. 47 – 53 .
- Ibrik Imad – Influence of Transition Cost on Optimal Operation of Power Generation Systems Respecting Unit Commitment Procedures – Engineering Journal University of Qatar , Volume 17 2004 .
- Marwan Mahmoud, Imad Ibrik – Field Experience on Solar Electric Power Systems and their potential in Palestine – Elsevier – Renewable and sustainable Energy Reviews 7 (2003 ) P. 531– 543
- Imad Ibrik, Marwan Mahmoud – Energy Efficiency Improvement and its Techno – Economical Impacts by Raising of Power Factor at Industrial Sector in Palestine – Pakistan Journal of Applied sciences, volume 2 , N 9 2002 , P. 907 – 911 .
- Ibrik Imad – Optimum Load Shedding in Power Systems using “Thermal Function” – Palestinian Engineering Conference 2001 , 20 – 21 August 2001 , P. 101-111.
- Ibrik Imad – Energy Efficiency Improvement and Audit Results in Industrial Sector in Palestine – the 8<sup>th</sup> Arab International Solar Energy Conference and the Regional World Renewable Energy Congress Organized by the University of Bahrain from 8<sup>th</sup> to 10<sup>th</sup> March 2004 in the kingdom of Bahrain .

#### **Invited Presentation and Seminars:**

- 1- NATO Advanced Research Workshop “Enhancing security in the Middle East through Regional cooperation on Renewable Energy”. 16 – 18 January 2008, The London school of Economics and Political science (LSE), London, UK.
- 2- “Energy Efficiency Improvement and Audit Result in Industrial sector in Palestine”, presented paper at the 8<sup>th</sup> Arab International

Solar Energy conference and the Regional World Renewable Energy congress organized by the university of Bahrain from 8<sup>th</sup> to 10<sup>th</sup> March 2004 in the kingdom of Bahrain:

- 3- Leadership for Renewable Energy in the middle East and North Africa “Advancing Renewable Energy for Desalination”, Amman, Jordan 24-26 July 2006.
- 4- Workshop for the reformulation of the work area of the Azahar Programme, held in Amman , Jordan from 11 to 13 November 2007.
- 5- “Initial Assessment of the Contribution of Renewable Energy Technologies in Arab Mediterranean Countries”, presented paper at the advanced seminar on solar and wind power energy, Pamplona – Spain, May 8<sup>th</sup> to 13<sup>th</sup> 2006.
- 6- “Advanced Seminar on Application of renewable energy sources in urban mediterranean settings”: held in Algiers, from 28<sup>th</sup>, May to 1<sup>st</sup> June 2005.
- 7- “Economical operation of power Network Nablus”, presented paper at the conference “Energy and Environment – Challenges for development and reconstruction”, Nablus – Palestine 29 – 30 October 2000, P. 19-26.
- 8- “The Effect of Improving power factor in Industrial sector in West – Bank – Palestine”, presented paper at the conference “The Arab Regional conference on Energy for sustainable Development” – Cairo, 10 – 12 September 2005.
- 9- Advanced Seminar on renewable sources of energy: A sustainable regional energy model, Pamplona, 17<sup>th</sup> to 22<sup>nd</sup> May 2004.
- 10- “Potential of Renewable Energy in Palestine”, Presented paper at the conference on “Energy and Environmental Protection in sustainable Development”, Hebron – Palestine , 8 – 9 May 2007.
- 11- Advanced seminar on “Rural Electrification with solar Hybrid micro Grids for Electricity Generation in Palestinian Territories”, organized by Catalan Energy Institute – Spain and Energy

Research Centre – ANNU, Nablus – Palestine , 18<sup>th</sup> to 23<sup>rd</sup> of November 2006.

- 12- Advanced workshop on “University – Industry cooperation in Research and Technology Transfer”. Organized by University of Alicante Spain. Energy Research Centre – ANNU – Palestine, 6<sup>th</sup> to 8<sup>th</sup> December 2005.
- 13- Participation in exhibition of the 1<sup>st</sup> Global Renewable Energy Conference and Exhibition (GC Reader), 18 – 31 September 2006, Amman – Jordan .
- 14- Participation in the 5<sup>th</sup> international conference and exhibition for Environment Technologies, Management and Funding the Gateway to profitable Environmental compliance, Cairo on 21-23 May 2007.

#### References:

- 1- Prof. Dr. Marwan Mahmoud, Electrical Department – An-Najah University , Nablus- Palestine.
- 2- Dr. Haitham Abu-Rub . Associate Professor, Texas A&M university, Qatar
- 3- Lennart Johanson, head of International relation department, Royal Institute of Technology KTH- Sweden – Stockholm.