

# CURRICULUM VITAE

**Tania P. Urmee**

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## CAREER OBJECTIVE

In the world, very few areas are electrified. To bring solution for this energy crisis, I want to see myself as an energy expert working for the commercial deployment of low greenhouse gas technologies. It is recognized that the absence of suitable policy is the key barrier to this development and I would like to devote myself in this area to make the change.

## ACADEMIC QUALIFICATION

**May 2006 – till date**

**Ph D candidate**

Research Institute for Sustainable Energy, Murdoch University, Australia

**August-2003 to May 2005**

**Master of Science in Energy Technology**

Asian Institute of Technology, Thailand

**1989 to 1995**

**Physics and Solar Energy**

Master of Science with Honours, Dhaka University  
Bangladesh

## SUMMARY OF PROFESSIONAL SKILLS

- Energy policy research, environmental impact assessment, policy analysis and feasibility study of decentralized low emission energy generation technologies particularly for the remote areas
- Renewable energy system design, planning of renewable energy systems for off-grid electrification, life cycle assessment of renewable energy systems.
- 7 years experience in project development and preparation of project reports, project planning and project budgeting
- Communication, presentation, training and report writing
- Highly motivated and determined to complete assigned tasks on time and within budget
- Effective team worker and good people skills
- Good knowledge on Microsoft office and Windows.

## ACADEMIC AWARDS

E7 sustainable energy development scholarship for M. Sc in Energy Technology at the Asian Institute of Technology, Thailand.

Prestigious Australian Government scholarship (Endeavour International Postgraduate Research Scholarship) for PhD at Murdoch University.

## EMPLOYMENT HISTORY / WORK EXPERIENCE

**May 2006 to till date**

PhD research student, Murdoch University, Western Australia

My PhD research is being carried out on the policy and technological barriers to Rural Electrification using Renewable Energy in the developing countries

### **June 2005 to April 2006**

Research Associate and Assistant Editor of Energy Journal, Asian Institute of Technology, Thailand

#### Responsibilities

- Managing the overall activities of the project carried out by the centre including correspondence with the donor.
- Perform the duties as assistant editor for international Energy Journal published by the 'Regional Energy Resources Information Centre (RERIC)'.
- Increase the subscription level of the journal and maintain regular publications.
- Publish newsletter, carry out review of the articles, regularly communicate with the editorial board members, publishing/printing the journals, etc.

#### Achievements

- Secured a two year funding for Thailand Energy and Environment Network (TENET) project
- Increased the subscription level of the journal by five times in six months

### **August 2003 to May 2005**

Master student, Asian Institute of Technology (AIT), Thailand

#### Responsibilities

- Research on finding suitable areas for wind PV hybrid system using Geographic Information System (GIS) at Rote Island, Indonesia. Case study area: Rote Island, Indonesia

#### Achievements

- Successfully developed a GIS based model to develop wind PV hybrid system using GIS
- Presented the research at the international conference in Indonesia.

### **April 2003 to July 2003**

Research Associate, Asian Institute of Technology (AIT)

#### Responsibilities

- Policy analysis of institutional reform of energy market in the developing countries on behalf of the Global Network on Energy for Sustainable Development.

#### Achievements

- Successfully analysed the policies of Bangladesh, Thailand and Vietnam and submitted a detailed report to the GNEED

### **April 2002 to March 2003**

Solar Consultant, Rahimafrooz Batteries Limited, Bangladesh

#### Responsibilities

- Designing and planning of Solar Photovoltaic (PV) projects,
- Attending the planning meetings with different organizations and presenting company's PV activities,

- Developing training manuals for both the technicians and users.
- Guiding sales team to achieve utmost goal round the year.
- Standardizing solar PV components and perusing other PV players to follow.
- Assess the impact of the projects.

#### Achievements

- Successfully developing the solar photovoltaic project for the tribal community in Chittagong
- Increased the solar business by more than two times
- Successfully developed the standard for the Solar PV components.

#### **September 2001 to March 2002**

Coordinator Partnership & Networking Unit, Intermediate Technology Development Group (ITDG), Bangladesh

#### Responsibilities

- Developing network and partnership criteria and providing business development service in rural areas on energy and environment.
- Analyse grant proposals for small entrepreneur development
- Develop and establish community project through community consultations
- Strengthening the capacity of the NGOs related to small and medium enterprise development.
- Networking with different stakeholders of the projects.
- Producing reports, analysing project proposals, case studies, conducting meeting, training and workshops.
- Maintaining liaison with individuals and institutions participating in enterprise development field.

#### Achievements

- Successfully developed and implemented the small entrepreneur development project through community consultation

#### **January 1998 to August 2001**

Deputy Manager, Grameen Shakti (*a renewable energy company*), Bangladesh

#### Responsibilities

- Managing research, manufacturing and lead the team responsible for the development of PV components locally
- Preparing project proposal for fund raising.
- On site trainings, monitoring and evaluation of research activities.
- Market research for developing new technical and financial package.
- Analysis the impact of Solar Home Lighting to rural people specially women.

#### Achievements

- Efficiently led the research team and developed prototypes of three devices for solar PV system which were taken up for mass production
- Trained more than 1000 users of solar home systems
- Secured USD 1.5 million project from the USAID through developing an innovative project proposal.

### **September 1996 to December 1997**

Project Officer, Prakaushali Shangshad Ltd. (*a renewable energy consultant*),  
Bangladesh

#### Responsibilities

- Developing solar PV projects in the coastal belt of Bangladesh
- Designing solar water pumping system and solar water heater.
- Supervising and providing technical assistance during installation of the above.
- Designing PV systems for remote area cyclone shelter and implementing the project through community consultation.

#### Achievements

- Successfully implemented cyclone shelter project with installation of five solar PV systems.

### **June 1996 to August 1996**

Project Officer, Bangladesh Centre for Advance Studies, Bangladesh

#### Responsibilities

- Create awareness of the potential users of 62 kW Solar Photovoltaic project
- Conduct community consultation and training program to achieve community acceptance of the project
- Studying the feasibility of Solar Electrification, establishing tariff structure of the systems.
- Preparing questionnaire wind energy assessment survey, analyzing the results of survey to find the feasibility of Wind Energy in the coastal belt of Bangladesh.

#### Achievements

- Achieved the community acceptance for the system installation and helped implementing the project.

### **PROFESSIONAL HONOURS**

- Was invited as keynote speaker for the debate at Danish parliament by Forum for Energy and Development, Denmark in 2000
- Was invited as a guest speaker at the conference on World Sustainable Energy Day, Wels, Austria in 1999

### **PUBLICATIONS**

- i. M. M. Hussain and Tania P. Urme, "A Case Study of PV System Design for a Rural Village in Bangladesh", World Renewable Energy Congress (WREC) Special Publication pp. 1116
- ii. M. M. Hussain and Tania P. Urme, "Design and Fabrication of a Low Cost Solar Water Heater", World Renewable Energy Congress (WREC) Special Publication pp. 906.
- iii. Tania P. Urme, "Promotions of Renewable Energy Technology in Bangladesh", Proceedings of World Sustainable Energy Day, Wels, Austria, March, 1999
- iv. Nancy Wimmer and Tania P. Urme, "Transforming Lives: Micro-credit promotes renewable energy in Bangladesh", Renewable Energy World/July 99.
- v. Ali Agar and Tania P. Urme, "Performance testing of lead acid batteries as a function of Depth of Discharge and temperature in Photovoltaic application in Rural Bangladesh.", World Renewable Energy Congress (WREC) Special publication, pp 817- 820.

- vi. Dipal C. Barua, Tania P. Urmee, S. Kumar, and S. C. Bhattacharya, "A Photovoltaic Solar Home System Dissemination Model", *Progress in Photovoltaics: Research and Application*, April 2001, pp. 313-322
- vii. Tania P. Urmee and S. Kumar, *Assessment of Wind-PV Hybrid System for Decentralised Rural Electrification using Geographic Information System*, World Renewable Energy Regional Congress, Jakarta, April, 2005.
- viii. R. M. Shrestha, S. Kumar, S. Martin and T. Urmee, 'Application of Productive Uses of Renewable Energy for Small Medium and Micro-enterprises', presented in the UNDP expert meeting, May 2005, Amari Watergate, Bangkok, Thailand.
- ix. M. Anisuzzaman and Tania P. Urmee, 'Financing Mechanisms of Solar Home Systems for Rural Electrification in Developing Countries', International Conference on Energy for Sustainable Development: Issues and Prospects for Asia, Phuket, Thailand, March 2006.
- x. Tania Urmee and David Harries, 'Renewable Energy Based Rural Electrification Programs in Developing Countries: Lessons and Perspectives, The 2nd Joint International Conference on "Sustainable Energy and Environment (SEE 2006)" November 2006, Bangkok, Thailand
- xi. Tania Urmee, David Harries and August Schlapfer, 'Issues Related to Rural Electrification using renewable energy in Developing Countries of Asia and the Pacific', *Renewable Energy for Sustainable Development in the Asia Pacific Region*, Perth, WA, February 2007
- xii. Tania Urmee, David Harries and August Schlapfer, *A Survey of Program Implementers on Their Views About Success Factors of Solar PV Program in Asia and the Pacific*, Ecocity World Summit, San Francisco, USA, April 2008

#### **LANGUAGES PROFICIENCY**

Bangla: Mother Tongue

English: Fluent

#### **PERSONAL INFORMATION**

Date of Birth : 4 September 1970

Citizenship : Bangladeshi

Permanent residency : Australia

#### **ASSOCIATIONS**

1. Member of Solar Energy Society of Bangladesh

2. Member of AIT Alumni Associations

#### **REFERENCES**

Professor David Harries, Director (and my PhD supervisor), Research Institute for Sustainable Energy (RISE), Murdoch University, Western Australia, Tel: 08 9360 6620, Email: dharries@rise.murdoch.edu.au

Professor Sivannapan Kumar, Dean (and my Masters Research Supervisor), School of Environment, Resources and Development (SERD), Asian Institute of Technology (AIT), Thailand, Email: kumar@ait.ac.th