



## Session XI: Renewable and Green Energy (RGE)

- Venue : Classroom, Atomic Energy Centre, Dhaka
- Time : 14:30 - 16.00
- Chair(s) : Prof. Engr. Muhibul Haque Bhuyan, PhD  
Dept. of Electrical and Electronic Engineering, American International University of Bangladesh
- : Shameem Ahmad, PhD  
Associate Professor, Dept. of Electrical and Electronic Engineering  
BSRM School of Engineering, BRAC University
- Invited Lecture : **Progress, Challenges, and Opportunities of Renewable Energies in**  
IL-10 **Bangladesh**
- Shahriar Ahmed Chowdhury  
Founding Director, Centre for Energy Research  
United International University, Dhaka, Bangladesh &  
Chairman, Center for Renewable Energy Services Ltd. (CRESL)

### Contributory Papers:

Abstract ID	Title	Author Name(s)
RGE01-030	Analyze a Highly Efficient MoO <sub>3</sub> -Based RbGeI <sub>3</sub> Perovskite Solar Cell	Imon Shahriar, Tribid Mazumder, Shanmim Karim Tonmoy, Md. Sozol Hossain, and Bibhas Manna
RGE02-260	Analysis of Yearly Energy Yield and Comparative Evaluation of Actual, Pvsyst-Simulated and Machine Learning-Predicted Data of A 150 Kw Rooftop On-Grid Solar Photovoltaic System in Bangladesh	Rafratin Islam and Md. Atik-Uz-Zaman Atik
RGE03-129	Impact of One-Degree Celsius Temperature Rise on Energy Consumption in South Asian Countries Using LSTM Network	Nusrat Jahan Rushni, Nowshin Faria, and Sampad Ghosh
RGE04-245	Enhanced Oxygen Evolution Reaction Performance of PEDOT: PSS-Coated NiCoFe Layered Double Hydroxide on Nickel Foam.	Tajmin Sultana, Sakibul Islam, Md. Romzan Ali, Md. Ikram Hossain, Alif Hossain, Sheikh Abdullah Al Mamun, Mohamed Aly Saad Aly, and Md. Zaved Hossain Khan
RGE05-247	Design and Optimization of Antimony Selenide (Sb <sub>2</sub> Se <sub>3</sub> ) Based Thin Film Solar Cell	Hafizur Rahman Alve and Himangshu Ranjan Ghosh
RGE06-251	Computational Investigation of Polyene Carotenoids for Dye-Sensitized Solar Cells Using DFT and TD-DFT with Experimental Validation	Md. Arman Arafat and Jewel Hossen
RGE07-265	Numerical Simulation and Performance Optimization of Lead-Free Cs <sub>2</sub> AgInBr <sub>6</sub> Perovskite Solar Cells using SCAPS	Sonet Kumar Saha and A. K. M. Akther Hossain