BE WHAT YOU WANT TO BE

Hybrid Forecasting System of Renewable Energy with Smart Grid for a Sustainable Future

Presented by:

Md Rahat Hossain

Power Engineering Research Group



Challenge Addressed by the Project

The challenge addressed by this project is to develop a unique hybrid forecasting system using historical weather data for the intermittent renewable energy sources like wind and solar with smart grid for a sustainable future.

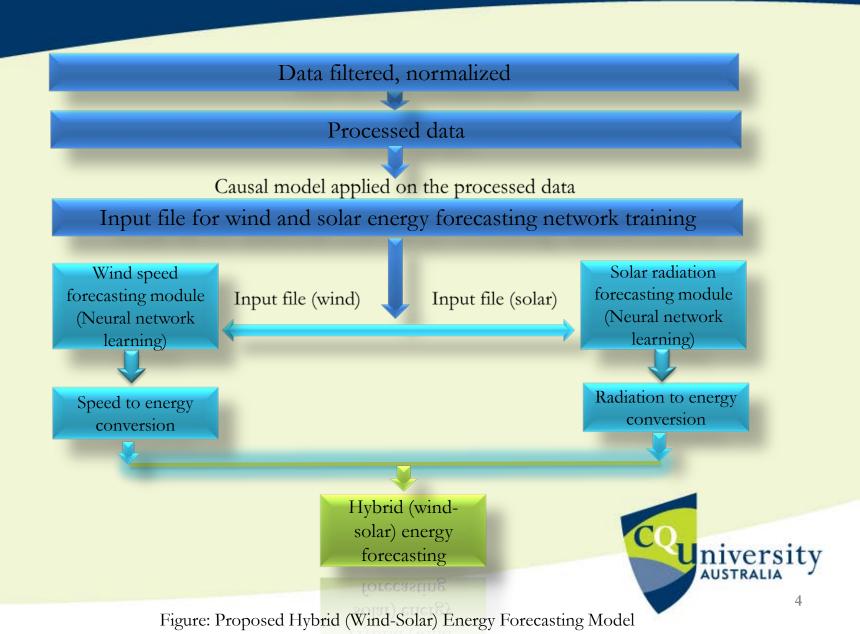


Why is this Challenge Important?

- To optimize the intermittency of wind and solar energy throughout more predictability
- To integrate with smart grid
- Such hybrid forecasting has significant impact on the optimum power flow, transmission congestion, power quality issues, system stability, load dispatch, and economic analysis
- To defend against global warming



Project Plan to Resolve the Challenge



Expected Outcome

Expected outcome of this project is the development of a platform independent, artificial intelligence based unique and more robust application that will continuously deliver hybrid (wind-solar) energy forecasting at the interval of three hours.



Expected Benefits

- Resolving unpredictability of wind and solar energy
- Robustness
- Viable economic and sustainable alternatives to conventional fossil fuels
- Green, clean, sustainable world



Beneficiary of the Project

- The nature and human being all over the world
- Subtropical climate areas like Australia
- Australian energy industries
- Researchers



