CHAPTER FIVE CONCLUSION AND RECOMMENDATIONS

5.1 Conclusion

Solar energy is not only environmentally sound but it also results in comprehensive economic and social gains. An important benefit of solar energy is the secure and independent energy supply in rural and remote areas that can advance the development process more rapidly at lower cost than comparable efforts based on non-renewable conventional energy sources.

5.2 Recommendations

This system of hybrid solar-diesel can be installed on several areas with different ratings and purposes, depends on the population of the area or the power consumption in the area, these several plants then can be connected to the national grid as an extra source of power generation.

Although solar energy generation was used in this system as the primary source of power, wind energy can also be used because; the idea is to use a clean renewable source of power in the most economic way.

5.3 References

- "Solar Energy Perspectives: Executive Summary" (PDF). International Energy Agency. 2011. Archived from the original (PDF) on 13 January 2012.
- "2014 Key World Energy Statistics" (PDF). iea.org. IEA. 2014. pp. 6,
 24, 28. Archived (PDF) from the original on 5 April 2015.
- "Energy and the challenge of sustainability" (PDF). United Nations Development Programme and World Energy Council. September 2000. Retrieved 17 January 2017.
- "Radiation Budget". NASA Langley Research Center. 17 October 2006.
- "Performance Evaluation of Mono-Crystalline Photovoltaic Panels in Funaab, Alabata, Ogun State, Nigeria Weather Condition". International Journal of Innovations in Engineering Research and Technology.
- 6. Photovoltaics Report, Fraunhofer ISE, 28 July 2014, pages 18,19
- 7. The Authoritative Dictionary of IEEE Standards Terms, Seventh Edition, IEEE Press, 2000, page 588,
- Konrad Reif (ed.): Dieselmotor-Management im Überblick. 2nd edition. Springer, Wiesbaden 2014, ISBN 978-3-658-06554-6. p. 13.
- Gordon R. Selmon, Magnetoelectric Devices, John Wiley and Sons, 1966 no ISBN pp. 391-393.
- Bennett, Stuart (1996). "A brief history of automatic control" (PDF). IEEE Control Systems Magazine. 16 (3): 17–25. Archived from the original on 2016-08-09. Retrieved 2014-08-21.

- Fenwick, D.R.; Wright, W.F. (1976). "Review of trends in excitation systems and possible future developments". Proceedings of the Institution of Electrical Engineers. 123 (5): 413.
- 12. "Dual-fuel-electric LNG carriers" (PDF). Thedigitalship.com.
 Archived from the original (PDF) on 2011-06-26. Retrieved 2013-10-28.
- "Basic sizing of diesel generators". wellandpower.net. Retrieved 2019-06-03.
- "Overcoming Barriers To Scheduling Embedded Generation To Support Distribution Networks" (PDF). BERR. Archived from the original (PDF) on 2010-03-04. Retrieved 2014-07-15.