## Sub Working Group: Power Systems (5.1.2.)

## Task Register Reference

* 5.1.2 - Review of IALA documents (ref ENG1 input paper on document ownership).

## Summary

Progress has been made on the implementation of the improvements to the IALA solar model. This was demonstrated and discussed within the working group. This work will continue until the workshop.

## Activities

Notes

* Keep it simple and to have the simulation on 1 page
* Keep a monthly base for the calculation

Actions

* Adopting the calculation of the duration of the night from guideline 1067 – Done
* Expanded the simulation to a 2-year overview period - Done
* Insert links to the internet on where to obtain solar irradiance data
* Add the facility for other daytime / seasonal / cyclic / on demand loads
* Investigate the feasibility to improving the solar energy gain calculation, noting the improvements in regulator technology.
* Testing of the model
  + On different versions of Excel
  + Compare the result to those obtained at ENG3
* Look at enhancing guideline 1039 to not just advise on how to use the IALA solar model, but to contain information of good practice, based on what was learned at ENG3 during the solar model comparison.
* Move the Annex 1 from guideline 1067-0 to 1039
* Provide some guidance in guideline 1039 on the following:
  + impact of solar module temperature on the output of the module.
  + Bird fowling and shadowing.

## Action timeline

Action 1- Update the IALA model – Jorg Unterderweide to update as an input paper for ENG5 and completed at ENG 6

Action 2 – Update Guideline 1039 – Jorg Unterderweide & Peter Dobson to write draft additions detailed above as an input paper for ENG 5