

To,
 Mr. David Ripper
 Senior Metrology Engineer
 Australian Energy Market Operator Ltd. (AEMO)
 Melbourne, VIC 3000

Date: 15 Sept. 2021

Subject: Submission to include **Syrius** series LED lights on the NEM Load Tables

Dear Mr. Ripper,

Advanced Lighting Technologies have been invited by **City of Holdfast Bay, South Australia** to seek the inclusion of **Syrius** series LED lights in the NEM load table, for Unmetered Loads, as per their **attached** letter.

Accordingly, we have engaged the services of **TUV Rheinland**, a NATA accredited test laboratory, to verify the performance of our lights. We are pleased to confirm that the testing is successfully completed on a batch of **10** test samples of each, for 4 variations of these lights. We confirm that the units tested were as follows:

Luminaire Generic Name	Nominal Rating for Average Power in Watts for the NEM load table as per test report	TUV Test Report Details
Syrius LED Luminaire 25 Watts without PE cell.	25.15 Watts	Report Number AU213SLO 001 dated 10/Sept/2021 Page 6 of 16. Table 1.
Syrius LED Luminaire 25 Watts with NEMA based PE cell	25.47 Watts	Report Number AU213SLO 001 dated 10/Sept/2021 Page 6 and 7 of 16. Table 2.
Syrius LED Luminaire 40 Watts without PE cell.	39.27 Watts	Report Number AU213SLO 001 dated 10/Sept/2021 Page 7 of 16. Table 3.
Syrius LED Luminaire 40 Watts with NEMA based PE cell	39.52 Watts	Report Number AU213SLO 001 dated 10/Sept/2021 Page 7 or 8 of 16. Table 4.



The test report from TUV Australia has been **submitted** with this application. The test report contains details of 4 variations of the Sirius product, - 2 different wattages and 2 test options -with and without PE cells.

The datasheet for the NEMA based PE cell **2072NP1T** used for testing, is **submitted** with this application.

Our customer has supported the application for all the variations and may choose to use any or all the variations that suit their applications. Their letter of support is **submitted** this application.

The luminaire specification datasheets are submitted with this application. The datasheets indicate all the model numbers, with and without the PE cell.

The product coding nomenclature logic is **submitted** this application.

The luminaires have a **fixed output** and there are no means of adjusting the wattage on the field. If the customer chooses any dimmable driver options, they are aware that AEMO does not recognise dimming -energy usage reduction- for any billing benefit. They may choose it for system diagnostics purposes.

The luminaires have an internal identification label and will also comply with the external markings as per Australian standards AS/NZS1158.6.

We hope that this information will meet with AEMO's approval, to accept the luminaires for inclusion in the NEM load table. However, if you have any queries or should you require any further information, please do not hesitate to contact the undersigned.

Yours Sincerely,

Rita Bagul
Senior Electrical Engineer