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| **Submission for the Creation of a New Activity or Amendment of an Existing Activity under the ESI Scheme** | |
| **Applicant details** | |
| Date of submission | 10.12.2015 |
| Company name (if applicable) | General Innovation Australia Pty Ltd |
| ABN/ACN (if applicable) | 156 031 471 |
| Address | 3 Phoenix Court Braeside Vic 3195 |
| **Contact person details** | |
| Name and position | David Clerk |
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| Email address | David.clerk@machtig.com.au |
| **Summary of proposal** Please provide evidence, data or references to justify all claims made.  The suggested elements of a response are provided in italics. The text in italics may be deleted in the submission. | |
| **Category of proposed activity** | *Dynamic Energy Efficient LED Smart Lighting* |
| **Confidentiality statement  MUST BE COMPLETED**  In lodging a submission, parties acknowledge the Department's right to engage consultants and contractors to assist in the assessment process, and to disclose information (that might otherwise be identified as confidential by a party) to such persons for those purposes. | *The Department will list on its website (at minimum) the category of all activities submitted and the name of the submitting party.*  *If any part of this submission should be treated as confidential then please provide two versions of the submission, one with the confidential* *information* ***removed*** *for publication.*  *Clearly identify all confidential components of submission or state that the submission is not confidential.* |
| **Briefly describe new or amended activity**  Maximum 100 words. | Replacement of existing light globes with LED light globes in E27 / B22 GLS applications. Australian designed SMART lights that the user can control the energy usage from an APP. The lamps also replace power consuming things like stereo’s, WiFI repeaters and security camera’s as they are inbuilt in to the LED lamps thus saving energy. |
| **Estimate the average annual energy savings for an average installation of that activity** | *The proposed activity could be am amendment to the existing 21 and 34. Many AP’s are already using our LED downlight globes and they are ready and willing to offer these great innovative products to the consumer.*  *The installation would be no different to that of the already existing 21 or 34 where and A Grade electrician is used by qualified AP’s.*  *Attached in the email is a energy savings sheet calculation based from real data collected by Energy Makeovers AP.* |
| **Demonstrate that the activity is likely to be additional to business as usual (BAU)** | *The proposed products would provide additional business to the already existing BAU LED downlight replacement.*  *Consumers now have the ability to reduce energy even further by being able to DIM 100% of lights installed rather than the existing 10% DIM coverage of Australian houses. Users will be able to control individual lights even on the same circuit to reduce energy. They will also be able to remove old power consuming devices like stereo’s, security camera’s, motion sensors, WiFi repeaters that are usually left on all day.*  *These products are in line with Malcom Turnbulls Innovation announcement as they are from a Australian company in JV with an overseas company.* |
| **List the key variables that should be considered to ensure the activity best represents the delivered energy savings** | *LED Light bulbs will be used every day in the installed application. Savings are immediate and guaranteed. Additional savings over normal non smart LED are also evident with complete control per lamp. Also being able to remove old stereo, camera, sensor devices saves additional energy.* |
| **List all existing product standards which support the claims for energy savings or related matters** | 1. *AS/NZS62560* 2. *EN55015 (ACMA)* 3. *IEC6100-3-2 &4-5* 4. *ACMA Radiocommunications* 5. *IEC62471* 6. *AS/NZS60238* 7. *IEC60065* 8. *IEC62493* 9. *IEC60068* 10. *SAA,SGS* 11. *UL, FCC, CE , RoHS* |
| **Ensuring savings are valid** | *The installation process would be exactly the same as the current activity 21/34. This program has worked well.* |
| **Protecting health and safety** | *Installation will be carried out by accredited AP’s using only A Grade Electricians.* |
| **Other benefits and issues** | *Innovation and Energy saving are key to our current environment and backed by the Government. The uptake of this program is expected to be high due to the proof of the existing uptake of the LED replacement models.*  *The estimated cost of having the smart lamps at home can start from a total of $499 insatlled which include wirelss sound, home security and wifi boosting. This cost would be decreased if the products were to be approved for the VEEC rebate’s.*  *The estimated number of total installations across Victoria would be 100,000 homes in the first 12 months. One A grade electrician can complete one average home installation in 2 hours.*  *These products are examples of leading Australian innovation as can be seen on these links.*  [*http://anthillonline.com/the-humble-light-bulb-will-never-be-the-same-again-thanks-to-this-australian-innovator/*](http://anthillonline.com/the-humble-light-bulb-will-never-be-the-same-again-thanks-to-this-australian-innovator/)  [*http://www.brw.com.au/p/david\_clerk\_smart\_machtig\_bulb\_combines\_cXMqzkNjsatoOYG4wkAJ2J*](http://www.brw.com.au/p/david_clerk_smart_machtig_bulb_combines_cXMqzkNjsatoOYG4wkAJ2J) |