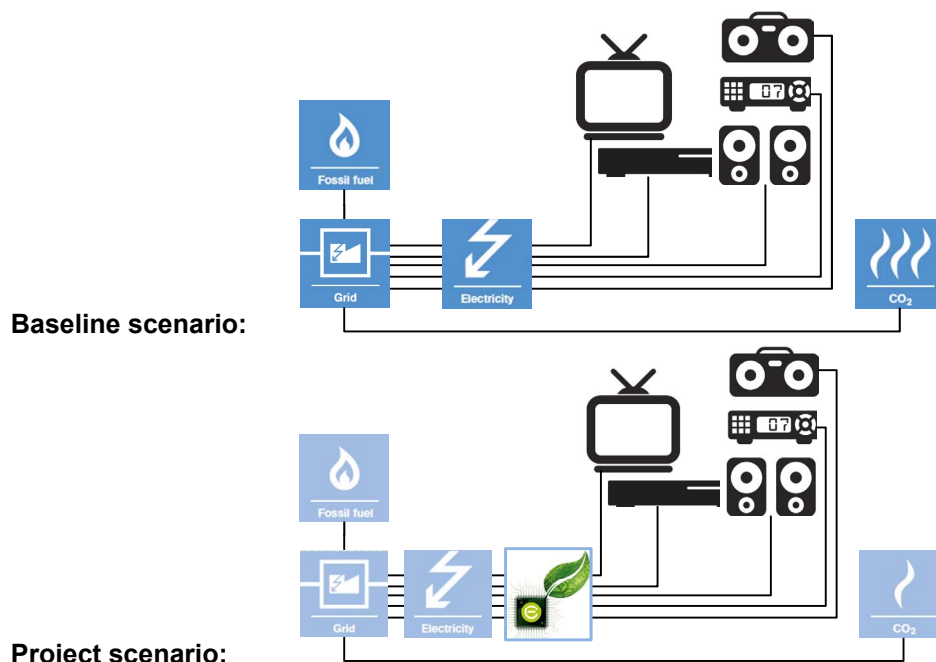
 <p align="center">CDM: Form for Submissions on Small Scale Methodologies and Procedures (version 03) <i>(To be used for presenting questions/proposals/amendments related to the simplified methodologies for small-scale CDM project activity categories)</i></p>	
Name:	Ben Cirulis Institution: <u>Sigma Global</u>
Affiliation ¹ :	<input type="checkbox"/> DNA <input type="checkbox"/> DOE <input checked="" type="checkbox"/> PP <input type="checkbox"/> Stakeholder
Title/Subject (max. 200 characters):	
Purpose of the submission:	<input checked="" type="checkbox"/> Query on an approved SSC methodology or small scale procedures ² (Fill in field 1. below) <input type="checkbox"/> Request for Revision of an approved SSC methodology (Fill in fields 2. and 3. below) <input type="checkbox"/> Proposal for a new SSC methodology (Fill in fields 4. and 5. below)
Approved SSC methodologies ² to which your submission relates to, if applicable.	AMS-II.C. Demand-side energy efficiency activities for specific technologies - Version 13
Contact Information (e-mail addresses to which the answers are to be delivered and phone contacts for possible dialogue on the submission).	Ben Cirulis <u>ben@sigmaglobalcompany.com</u> +61 419 192 936
Information for completing the form	
Describe the questions related to the SSC Methodologies, Modalities and Procedures below. If the questions are related to a project under development or implementation, you may describe the context in which they arose.	
Query on an approved SSC methodology or SSC procedures	
1. If you have questions relating to the application of an approved small-scale methodology (AMS) please specify and provide reference to the exact technology/measure below. If you have questions related to procedures for SSC project activities please clarify below:	
<p>The project participants are proposing to use a new intuitive energy saving device which reduces idle/active mode power wastage in addition to removing passive standby energy wastage in household audio visual (AV) and personal computer (PC) environments. The intuitive energy saving device is installed in each AV or PC environment between the AV or PC devices to be controlled and the general power outlet. In an AV environment, the intuitive energy saving device reduces the electricity usage of the controlled AV devices through advanced electronic circuitry that monitors the energy use of the devices and the degree of user interaction, and switches off devices when not in use. In PC environments, the intuitive energy saving device reduces the electricity usage of peripheral PC devices through advanced electronic circuitry that monitors the energy use of the laptop or desktop PC and switches off peripheral PC devices when not in use.</p>	

¹ Designated National Authority (DNA); Designated Operational Entity (DOE); Project Participant (PP), and Stakeholder.

² The list of all approved small-scale methodologies (AMS) can be found at <http://cdm.unfccc.int> and go to CDM: small scale CDM methodologies.

A schematic diagram of the use of the device is shown below.



Greenhouse gas emission reductions are achieved through reducing the consumption of grid-sourced electricity. Baseline emissions will be calculated according to option 1 in paragraph 6:

$$BE_y = E_{BL,y} * EF_{CO2,ELEC,y}$$

$$E_{BL,y} = \sum_i (n_i * \rho_{BL,i} * o_{BL,i}) / (1 - l_y)$$

Where:

BE_y	Baseline emissions in year y (tCO ₂ e)
$E_{BL,y}$	Energy consumption in the baseline in year y (kWh)
$EF_{CO2,ELEC,y}$	Emission factor in year y calculated in accordance with the provisions in AMS-I.D (tCO ₂ /MWh)
\sum_i	Sum over the group of “ i ” devices replaced, for which the project energy efficient equipment is operating during the year, implemented as part of the project activity
n_i	Number of devices of the group of “ i ” devices replaced, for which the project energy efficient equipment is operating during the year
$\rho_{BL,i}$	Weighted average power of the devices of the group of “ i ” baseline devices.
$o_{BL,i}$	Average annual operating hours of the devices of the group of “ i ” baseline devices.
l_y	Average annual technical grid losses (transmission and distribution) during year y for the grid serving the locations where the devices are installed, expressed as a fraction.

Project activity emissions will be determined according to paragraph 8:

$$PE_y = E_{PJ,y} * EF_{CO2,ELEC,y}$$

$$E_{PJ,y} = \sum_i (n_i * \rho_{PJ,i} * o_{PJ,i}) / (1 - l_y)$$

Where:

PE_y	Project emissions in year y (tCO ₂ e)
$E_{PJ,y}$	Energy consumption in project activity in year y . This shall be determined <i>ex post</i> based on monitored values
$\rho_{PJ,i}$	Weighted average power of the devices of the group of “ i ” devices in the project.
$o_{PJ,i}$	Average annual operating hours of the devices of the group of “ i ” devices in the project.

It is recognised that the AV or PC devices controlled by the intuitive energy saving device have variable current characteristics and that monitoring of the energy use (average power and operating hours) of an appropriate sample of installed devices is required (as per paragraph 15) to calculate estimates of parameters used in the baseline and project emission calculations.

The statistically significant estimates of the values of $\rho_{BL,i}$ and $o_{BL,i}$ in the baseline calculation and $\rho_{PJ,i}$ and $o_{PJ,i}$ in the project activity calculation will be determined through data recorded by a sample of specially modified intuitive energy saving devices distributed to selected households in the project. These devices have the capability for real time monitoring and recording of power consumption of the controlled AV or PC devices. However, these devices will be intentionally configured to not turn off the controlled devices, but to record events when it would have isolated power to the controlled devices.

This sampling methodology will allow monitoring of the actual power consumption trends throughout the project crediting period without distorting the AV or PC equipment usage characteristics of the household by the intuitive energy saving device itself, and allow calculation of the values of $\rho_{BL,i}$ and $o_{BL,i}$ in the baseline calculation and $\rho_{PJ,i}$ and $o_{PJ,i}$ in the project activity calculation from one sample of specially modified intuitive energy saving devices. The sample size will be chosen to give the confidence/precision required by the methodology.

A separate monitoring program will also perform annual checks of a sample of non-metered devices to ensure that they are still operating, and adjust emission reduction calculations accordingly.

The project participants would like clarification that the supply and installation of the intuitive energy saving device is an eligible small scale demand side energy efficiency activity under AMS II.C. Paragraph 1. The intuitive energy saving device meets the definition of an energy-efficient equipment/appliance as it enables significant electricity savings in household AV and PC environments through reducing idle/active mode power wastage in addition to removing passive standby energy wastage of existing consumer devices.

The project participants would also like clarification that applicability requirements in Paragraph 2 of the methodology, which refers to limitations on the output or level of service, will not hinder energy efficiency projects that install intuitive energy saving devices. Intuitive energy saving devices achieve significant energy savings without requiring changes to user behaviour, and do not affect the users experience or interaction with the devices.

Request for revision of an approved SSC methodology

2. If you are proposing an amendment/revision to an approved small-scale methodology (AMS), please provide justifications below:

3. If you are proposing an amendment/revision to an approved small-scale methodology (AMS) please provide the draft methodology with changes highlighted.

The following documents have been attached to this form:

- ☐ Draft methodology with changes highlighted in Word and PDF formats
- ☐ PDD in PDF format (optional)
- ☐ Additional information (please specify if you are providing any information note, published paper or a report in support of the request for revision of the SSC methodology)

Proposal for a new SSC methodology

4. If you are proposing a new small scale methodology, please provide justifications below:

5. For submitting a new small scale methodology a filled in form "CDM: form for proposed new small scale methodologies (F-CDM-SSC-NM)" is required.

The following documents have been attached to this form:

- ☐ Completely filled in form "CDM: form for proposed new small scale methodologies (F-CDM-SSC-NM)" in Word and PDF formats³
- ☐ A draft PDD (with sections A to C completed):
 - ☐ Relevant annexes to the PDD are provided
 - ☐ Additional information (please specify if you are providing any information note, published paper or a report in support of the new SSC methodology)

Date you are delivering the contribution:

11 February 2011

Information to be completed by the secretariat

SSC-Submission number

³ The current version of the form (F-CDM-SSC-NM) is available on the UNFCCC CDM website (<http://cdm.unfccc.int>).