



SDI Review Form 1.6

Journal Name:	<u>British Journal of Applied Science & Technology</u>
Manuscript Number:	2014_BJAST_9641
Title of the Manuscript:	Comparative study of replacing Fluorescent lamps by CFL and LED lamps in schools and universities and its impact on the environment and the economy of the country
Type of the Article	Original Research Article

General guideline for Peer Review process:

This journal's peer review policy states that **NO** manuscript should be rejected only on the basis of '**lack of Novelty**', provided the manuscript is scientifically robust and technically sound.

To know the complete guideline for Peer Review process, reviewers are requested to visit this link:

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PART 1: Review Comments

	Reviewer's comment	Author's comment (if agreed with reviewer, correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)
<u>Compulsory</u> REVISION comments	None	
<u>Minor</u> REVISION comments	The cost of LEDs is going down rapidly. In a few years (perhaps 5) the purchase cost may go down dramatically – at least a factor of 2 to 4. This would have a major effect on the ROI for LEDs. I suggest that the authors include such a scenario in the paper. This would strengthen the case for LEDs. On the other hand, although the LED manufacturers claim lifetimes of 100,000 hours, that is completely unproven. Even if the bulbs did last that long, it is possible that even the school buildings themselves will be replaced or remodelled before then. I think that most economic analyses of ROI for lighting don't include lifetimes past 25,000 or 30,000 hours for these reasons. I think that the authors should discuss this in the paper. Of course, a shorter assumed lifetime would weaken the case for LEDs. However, this might be off-set by the reduced purchase costs mentioned above.	Done The manufacturer ATRA claims that the lifetime of the LED light source is 100,000 hours. And moreover they have been working for more than 10 years in my country and they didn't face any problem in any installation during these years. It is highlighted in the new revision.
<u>Optional/General</u> comments	This is a nice, very well documented analysis. It clearly explains all of the assumptions, data and calculations.	Thanks.