



SDI Review Form 1.6

Journal Name:	Physical Science International Journal
Manuscript Number:	Ms_PSIJ_48993
Title of the Manuscript:	Financial Analysis of Photovoltaic Installations in Burkina Faso
Type of the Article	Original Research Article

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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:

(<http://www.sciencedomain.org/page.php?id=sdi-general-editorial-policy#Peer-Review-Guideline>)



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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)																																																																																																																																																																																																																																																																																																									
Compulsory REVISION comments																																																																																																																																																																																																																																																																																																											
Minor REVISION comments	<p>The manuscript needs to be edited for grammar and syntax. I suggest to re-write these vague statements. Please clarify your sentences.</p> <p>(L161) Since LCOE is a calibration tool, there is a great deal of sensitivity to the assumptions used, especially when the lifepan of the installation is extrapolated several years into the future [20-22]. It therefore theoretically takes into account all the costs related to the installation and this for all its life-time.</p> <p>(L182) Note that simulations were carried out for the different localities mentioned in table 4. The results obtained show that the lowest production is recorded in Gaoua and the more important is registered in Ouahigouya.</p> <p>(L185) In view therefore of the results of figure 2, we will focus our study on the localities of Ouahigouya and Gaoua.</p>	<p>I agree with reviewer and proposed as correction:</p> <p>(L161) LCOE is a calibration tool sensitive to the assumptions used for the calculations, especially when these are extrapolated several years in the future (over the lifetime of the installation). The determination of LCOE theoretically takes into account all the costs associated with an installation, for its entire lifetime. [19-21].</p> <p>(L182-183) The simulations were carried out for the localities mentioned in figure 1. Comparing the results on the productivity of a photovoltaic installation shows that the lowest production is recorded in Gaoua and the largest in Ouahigouya. Figure 2 below shows the energy productions of the first and the twenty-fifth year.</p> <p>(L185) In view therefore of the results of figure 2, we will focus our study on the localities of Ouahigouya and Gaoua.</p> <p>I also made corrections on the tables, the conclusion and on the Acknowledgments (L223) table .6</p> <table border="1" data-bbox="1584 953 2724 1535"> <thead> <tr> <th>Year</th> <th>10KWp</th> <th>50KWp</th> <th>100KWp</th> <th>500KWp</th> <th>1000KWp</th> <th>2000KWp</th> <th>4000KWp</th> <th>6000KWp</th> <th>8000KWp</th> <th>10000KWp</th> </tr> </thead> <tbody> <tr><td>0</td><td>-10575002</td><td>-52875010</td><td>-105750021</td><td>-528750106</td><td>-1057500211</td><td>-2115000422</td><td>-4230000829</td><td>-6345001243</td><td>-8460001657</td><td>-10575002110</td></tr> 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9	2229432.92852213	11147164.6426107	22294328.2852213	111471640.426107	222943281.852213	445886563.704426	891773142.408852	1337659714.11328	1783546285.8177	2229432818.52213																																																																																																																																																																																																																																																																																																	
10	3804694.48548039	19023472.4274019	38046943.8548039	190234718.274019	380469437.548039	760938875.096078	152187765.19216	2282816648.28823	3043755531.38431	3804694375.48039																																																																																																																																																																																																																																																																																																	
11	5412831.75113237	27064158.7556618	54128316.5113236	270641581.556618	541283164.113236	1082566328.22647	2165132671.45295	3247699007.67942	4330265343.90589	5412831641.13236																																																																																																																																																																																																																																																																																																	
12	7054530.8415185	35272654.2075925	70545307.415185	352726536.075925	705453073.15185	1410906146.3037	2821812307.6074	4232718461.9111	5643624616.2148	7054530731.5185																																																																																																																																																																																																																																																																																																	
13	8730492.19192099	43652460.9596049	87304920.9192099	436524603.596049	873049208.192099	1746098416.3842	3492196847.7684	5238295272.15259	6984393696.53679	8730492081.92099																																																																																																																																																																																																																																																																																																	
14	10441430.8557064	52207154.2785319	104414307.557064	522071536.785319	1044143074.57064	2088286149.14128	4176572313.28255	6264858470.42382	8353144627.5651	10441430745.7064																																																																																																																																																																																																																																																																																																	
15	12188076.809405	60940384.0470249	121880767.09405	609403834.470249	1218807669.9405	2437615339.88099	4875230694.76199	7312846042.64298	9750461390.52398	12188076699.405																																																																																																																																																																																																																																																																																																	
16	13971175.2641573	69855876.3207863	139711751.641573	698558757.207863	1397117515.41573	2794235030.83145	5588470076.6629	8382705115.49435	11176940154.3258	13971175154.1573																																																																																																																																																																																																																																																																																																	
17	15791486.9836602	78957434.9183011	157914868.836602	789574343.183011	1579148687.36602	3158297374.73204	6316594764.46409	9474892147.19613	12633189529.9282	15791486873.6602																																																																																																																																																																																																																																																																																																	
18	17649788.6087492	88248943.043746	176497885.087492	882489424.43746	1764978849.87492	3529957699.74984	7059915414.49968	10589873122.2495	14119830829.9994	17649788498.7492																																																																																																																																																																																																																																																																																																	
19	19546872.9887538	97734364.943769	195468728.887538	977343643.43769	1954687287.87538	3909374575.75076	7818749166.50152	11728123750.2523	15637498334.003	19546872878.7538																																																																																																																																																																																																																																																																																																	
20	21483549.5197691	107417747.598845	214835494.197691	1074177469.98845	2148354940.97691	4296709881.95382	8593419778.90764	12890129668.8615	17186839558.8153	21483549409.7691																																																																																																																																																																																																																																																																																																	
21	23460644.4899867	117303222.449933	234606443.899867	1173032218.49933	2346064437.99867	4692128875.99733	9384257766.99467	14076386650.992	18768515534.9893	23460644379.9867																																																																																																																																																																																																																																																																																																	
22	25479001.4322327	127395007.161163	254790013.322327	1273950065.61163	2547900132.22327	5095800264.44654	10191600543.8931	15287400816.3396	20383201088.7862	25479001322.2327																																																																																																																																																																																																																																																																																																	
23	27539481.4838634	137697407.419317	275394813.838634	1376974068.19317	2753948137.38634	5507896274.77268	11015792564.5454	16523688847.318	22031585130.0907	27539481373.8634																																																																																																																																																																																																																																																																																																	
24	29642963.7541716	148214818.770858	296429636.541716	1482148181.70858	2964296364.41716	5928592728.83432	11857185472.6686	17785778209.503	23714370946.3373	29642963644.1716																																																																																																																																																																																																																																																																																																	
25	31790345.6994612	158951728.497306	317903455.994612	1589517278.97306	3179034558.94612	6358069117.89224	12716138250.7845	19074207376.6767	25432276502.5689	31790345589.4612																																																																																																																																																																																																																																																																																																	



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Year	10kWh	50kWh	100kWh	500kWh	1000kWh	2000kWh	4000kWh	6000kWh	8000kWh	10000kWh
0	-10575002	-52875010	-105750021	-528750106	-1057500211	-2115000422	-4230000829	-6345001243	-8460001657	-10575002110
1	-9322478.3	-46612551.7	-93225104.4	-466125523	-932251045	-1864502090	-3729004165	-5593506247	-7458008329	-9322510450
2	-8043814.430381	-40219395.895279	-80438792.790558	-402193964.95279	-804387928.90558	-1608775857.81116	-3217551700.62232	-4826327550.43348	-6435103400.24464	-8043879289.0558
3	-6738464.84580305	-33692814.9289135	-67385630.8578269	-336928155.289135	-673856309.578269	-1347712619.15654	-2695425223.31308	-4043137834.46962	-5390850445.62616	-6738563095.78269
4	-5405872.61539496	-27030024.2177799	-54060049.4355598	-270300248.177799	-540600495.355598	-1081200990.7112	-2162401966.42239	-3243602949.13359	-4324803931.84478	-5406004953.55598
5	-4045469.18513825	-20228181.064505	-40456363.1290099	-202281816.64505	-404563632.290099	-809127264.580199	-1618254514.1604	-2427381770.7406	-3236509027.32079	-4045636322.90099
6	-2656674.13529209	-13284383.4446212	-26568767.8892424	-132843840.446212	-265687679.892424	-531375359.784847	-1062750704.56969	-1594126056.35454	-2125501408.13939	-2656876798.92424
7	-1238894.93275564	-6195668.76841042	-12391338.5368208	-61956693.6841042	-123913386.368208	-247826772.736417	-495653530.472834	-743480295.209251	-991307059.945668	-1239133863.68209
8	208473.321737755	1040987.38309286	2081973.76618571	10409867.8309285	20819736.6618571	41639473.3237141	83278961.6474283	124918442.971142	166557924.294857	208197366.61857
9	1686048.15170242	8428672.54847801	16857344.096956	84286719.484878	168573439.96956	337146879.93912	674293774.87824	1011440662.81736	1348587550.75648	1685734399.6956
10	3194459.96836845	15970538.7032647	31941076.4065295	159705381.032647	319410763.065295	638821526.13059	1277643067.26118	1916464601.39177	2555286135.52236	3194107630.65295
11	4734352.3396483	23669803.6047019	47339606.2094038	236698030.047019	473396061.094038	946792122.188075	1893584259.37615	2840376389.56422	3787168519.7523	4733960610.94037
12	6306382.26471676	31529752.164632	63059503.329264	315297515.64632	630595032.29264	1261190064.58528	2522380144.17056	3783750216.75584	5044760289.34112	6305950322.9264
13	7911220.4543214	39553737.8510079	79107474.7020158	395537372.510079	791074746.020158	1582149492.04032	3164298999.08063	4746448499.12094	6328597999.16126	7910747460.20157
14	9549551.61694309	47745184.1186584	95490367.2373168	477451835.186584	954903671.373168	1909807342.74634	3819614700.49267	5729422051.23901	7639229401.98535	9549036713.73168
15	11222074.7509287	56107585.8699148	112215170.73983	561075852.699148	1122151706.3983	2244303412.79659	4488606840.59319	6732910261.38978	8977213682.18637	11221517063.983
16	12929503.4427206	64644510.9457199	129289020.89144	646445103.457199	1292890207.9144	2585780415.8288	5171560846.6576	7757341270.48639	10343121694.3152	12928902079.144
17	14672566.1713102	73359601.6478571	146719202.295714	733596010.478571	1467192021.95714	293484043.91428	5868768102.82857	8803152154.74285	11737536206.6571	14671920219.5714
18	16452006.6190454	8225676.2929479	164513151.585896	82256756.929479	1645131514.85896	3290263029.71792	6580526074.43583	9870789112.15375	1316052149.8717	16451315148.5896
19	18268583.9889249	91339230.7988817	182678460.597763	913392301.988817	1826784604.97763	365356209.95527	7307138434.91054	10960707652.8658	14614276870.8211	18267846049.7763
20	20123073.3285137	100611440.304354	201222879.608709	1006114397.04354	2012228795.08709	4024457590.17418	8048915195.34835	12073372793.5225	16097830391.6967	20122287950.8709
21	22016265.8606198	110077160.822206	220154320.644413	1100771602.22206	2201543205.44413	4403086410.88825	8806172836.7765	13209259255.6647	17612345674.553	22015432054.4412
22	23948969.320871	119740430.927266	239480860.854531	1197404303.27266	2394808607.54531	4789617215.09063	9579234445.18126	14368851668.2719	19158468891.3625	23948086075.4531
23	25922008.3023375	129605373.479418	259210745.958836	1296053728.79418	2592107458.958836	5184214917.17671	10368429849.3534	1555264474.5301	20736859699.7068	25921074585.8835
24	27936224.6073473	139676197.382633	279352393.765266	1396761967.82633	2793523936.65266	5587047873.30533	11174095761.6107	16761143642.916	22348191524.2213	27935239366.5266
25	29992477.6066427	149957199.380709	299914397.761418	1499571987.80709	2999143976.61417	5998287953.22835	11996575921.4567	17994863882.6851	23993151843.9134	29991439766.1417

(L276) table.8

Year	Ouahigouya				Gaoua		
	ET (Fcfa/kWh)	EP (kWh)	EV (Fcfa)	TE (Fcfa)	EP (kWh)	EV (Fcfa)	TE (Fcfa)
0							
1	90	16330000	1469700000	161667000	15636600	1407294000	154802340
2	92.34	16248350	1500372639	165040990.29	15558417	1436664225.78	158033064.8358
3	94.74084	16167108.25	1531685415.97593	168485395.757352	15480624.915	1466647408.17203	161331214.898923
4	97.20410184	16086272.70875	1563651690.60735	172001685.966808	15403221.790425	1497256339.58058	164698197.353864
5	99.73140848784	16005841.3452062	1596285101.39032	175591361.152936	15326205.6814729	1528504079.38763	168135448.732639
6	102.324425108524	15925812.1384802	1629599571.45634	179255952.860197	15249574.6530655	1560403959.52445	171644435.547689
7	104.984860161345	15846183.0777878	1663609314.51263	182997024.59639	15173326.7798002	1592969590.15972	175226654.917569
8	107.71446652554	15766952.1623989	1698328840.90651	186816172.499716	15097460.1459012	1626214865.50635	178883635.205699
9	110.515042655205	15688117.4015869	1733772963.81623	190715026.019785	15021972.8451717	1660153969.74947	182616936.672442
10	113.38843376424	15609676.8145789	1769956805.57108	194695248.612818	14946862.9809458	1694801383.09814	186428152.140796
11	116.33653304211	15531628.4305061	1806895804.10334	198758538.451368	14872128.6660411	1730171887.9634	190318907.675974
12	119.361282901205	15453970.2883535	1844605719.53498	202906629.148848	14797768.0227109	1766280575.2652	194290863.279172
13	122.464676256636	15376700.4369118	1883102640.90168	207141290.499184	14723779.1825973	1803142850.87098	198345713.595808
14	125.648757839309	15299816.9347272	1922402993.01729	211464329.231902	14650160.2866843	1840774442.16866	202485188.638553
15	128.915625543131	15223317.8500536	1962523543.48156	215877589.782972	14576909.4852509	1879191404.77672	206711054.525439
16	132.267431807252	15147201.2680833	2003481409.83402	220382955.081743	14504024.9378247	1918410129.39441	211025114.233385
17	135.706385034241	15071465.2544993	2045294066.85726	224982347.354299	14431504.8131355	1958447348.79487	215429208.367436
18	139.234751045131	14996107.9282268	2087979354.03257	229677728.943583	14359347.2890699	1999320144.96422	219925215.946064
19	142.854854572304	14921127.3885856	2131555483.15123	234471103.146635	14287550.5526245	2041045956.38962	224515055.202859
20	146.569080791184	14846521.7516427	2176041046.0846	239364515.069306	14216112.7998614	2083642585.49947	229200684.404942
21	150.379876891755	14772289.1428845	2221455022.71638	244360052.498802	14145032.2358621	2127128206.25885	233984102.688473
22	154.289753690941	14698427.6971701	2267816789.04047	249459846.794452	14074307.0746828	2171521371.92347	238867350.911582
23	158.301287286905	14624935.5586842	2315146125.42775	254666073.797052	14003935.5393094	2216841022.95551	243852512.525107
24	162.417120756365	14551810.8808908	2363463225.06543	259980954.757197	13933915.8616128	2263106495.1046	248941714.461506
25	166.63996589603	14479051.8264864	2412788702.57254	265406757.28298	13864246.2823048	2310337527.65743	254137128.042317

(L322) table.9

LCOE (Fcfa/kWh)		
Discount rate (%)	Ouahigouya	Gaoua
4%	59.569	61.606
9.46%		90.037
10.06%	90.038	

(L334) LCOE is about 59.569 FCFA / kWh in Ouahigouya and 60.61 FCFA / kWh

(L346) **ACKNOWLEDGEMENTS**

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		Uppsala University, Sweden is gratefully acknowledged for their support to project BUF01.
Optional/General comments	The paper is presenting in-depth simulations and analysis results. This paper has a potential to be accepted, but some minor revisions must be made.	OK

PART 2:

	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)
Are there ethical issues in this manuscript?	<i>(If yes, Kindly please write down the ethical issues here in details)</i>	