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An Online Review For The Business Sustenance With The Utmost Clean & Green Energy Tools (Paper-Less)

R.Surya Kiran & Vikas Kumar Singh
India

ABSTRACT

Any business sustainability depends upon the studies and reviews on the un-structured/semi-structured/structured problems and reaching out to the generalisations through the solutions / resolutions / dissolutions .A similar approach towards any business sustainence had been discussed over here with the online tools as the main tools for arriving at the generalization .

KEYWORDS : online Calculators , solar energy.

1. INTRODUCTION

Any structured / semi-structured / un-structured problem(S) could be very well solved / resolved /dissolved with the online tools keeping in view the following plan which outlays the following steps :

Area / Sub-Area of the Domain → Problem Identification → Devising the solutions for the problem → A literature survey → Comparative Analysis → Preparation of the Mathematical Models → Implementation of the Research Works → Results → Documentation .

2. LITERATURE SURVEY (ONLINE)

An online literature survey was conducted for the various methods and the tools which are available online for the for the Knowledge engineering purposes and the following were noted down as mentioned below :

Sl No.	Web-Link	Knowledge Generated / Gathered
1	http://www.ijera.com/papers/Vol3_issue6/AE36176187.pdf	This research speaks about the effective usuage of the online tools and the softwares for the purpose of the online surveys ,online calculations ,online analysis for obtaining the necessary reports on the research works .
2	http://www.ijera.com/papers/Vol4_issue8/Version%202/K48026166.pdf	The online calculations make the financial calculations faster , provide the valuable information ,in-depth reports for the effective decision making .
3	http://EzineArticles.com/?expert=Surya_	This research paper speaks about the various steps of the

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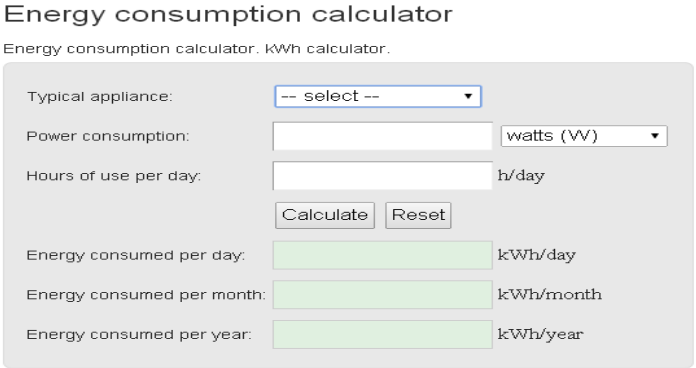
	Kiran_R Article Source: http://EzineArticles.com/7235129	research .
4	http://ijoer.in/2.4.14/AKSHAY%20KUMAR% 20GAUTTAM%20110-113.pdf	The online methods could be used to solve the numerical problems much fastly and in a much easier way .The only requirement is to insert the data properly to obtain the results automatically .
5	http://www.ijer.in/ijer/publication/v2s4/ IJER_2013_409.pdf	This speaks about the benchmarking of the problems and the solutions .
6	http://www.iaster.com/uploadfolder/5Techno-EntrepreneurshipCopy/5Techno-Entrepreneurship%20Copy.pdf	The rural techno entrepreneurship could be very well developed with the online tools and the softwares from the world of digitization and further could be created as the FOSS-Free and Open Source Softwares as the step towards the generalization .
7	http://www.ijera.com/papers/Vol3_issue6 LK3619561964.pdf	The time and the cost over-runs could be very well controlled with the web-links and the on-line tools as well .
8	http://www.ijera.com/papers/Vol3_issue5 /AD35166170.pdf	This speaks about the automation of the tasks considering all the repeatative tasks could be operated with the web-links as the modern tools to enhance the productivity and the profitability of the service centers .
9	http://www.ijera.com/papers/Vol4_issue9/ Version%204/N490492104.pdf	The six sigma with the service quality becomes an essential tool for the servqual .

3. RESEARCH METHODOLOGY

Any kind of the Ill-structured / semi-structured / well-structured problems could be very well solved /resolved / dissolved with the proper plan as already mentioned above and in most of the cases the same could be obtained / found-out by the preparation of the questionnaire and the getting the Results / Conclusions / Discussions for the Generalisation of the same .

http://www.rapidtables.com/calc/electric/energy-consumption-calculator.htm



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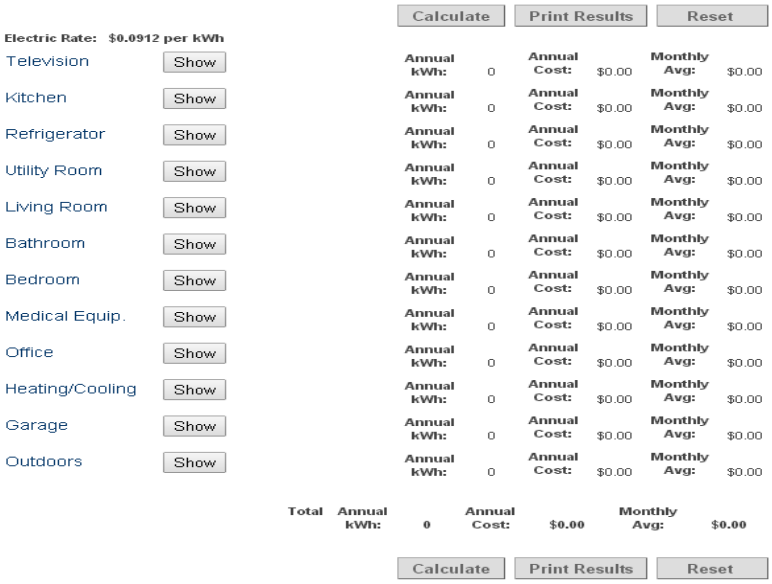
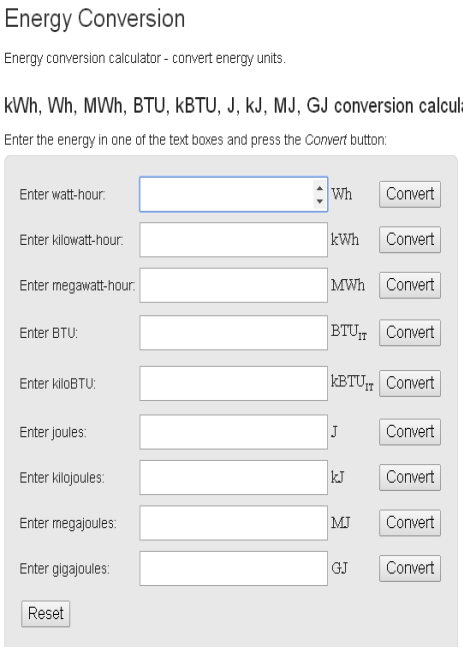
http://c03.apogee.net/calcs/appcalc/?utilityID=cpsenergy



http://www.rapidtables.com/convert/energy/index.htm



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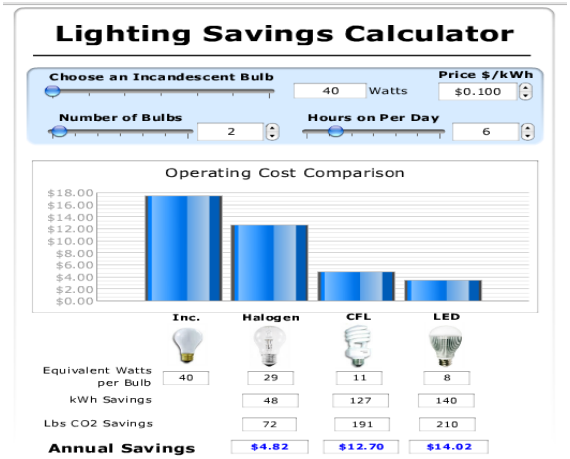
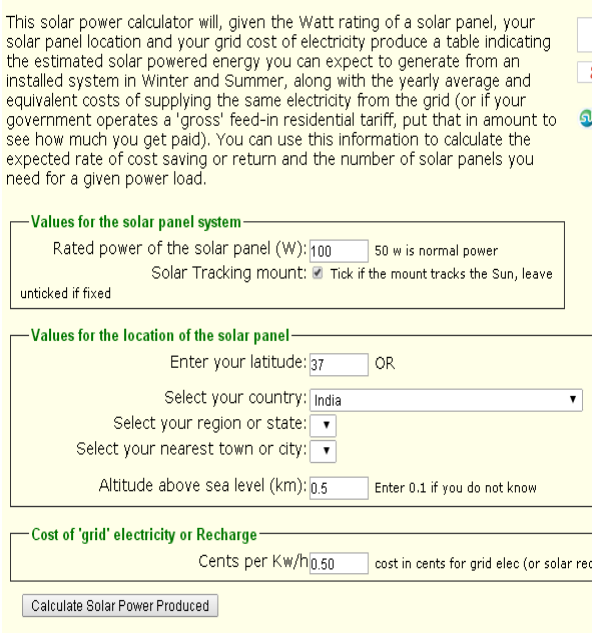
ttp://c03.apogee.net/contentplayer/?utilityid=cpsenergy&coursetype=misc&id=18393



http://www.ecowho.com/tools/solar_power_calculator.php



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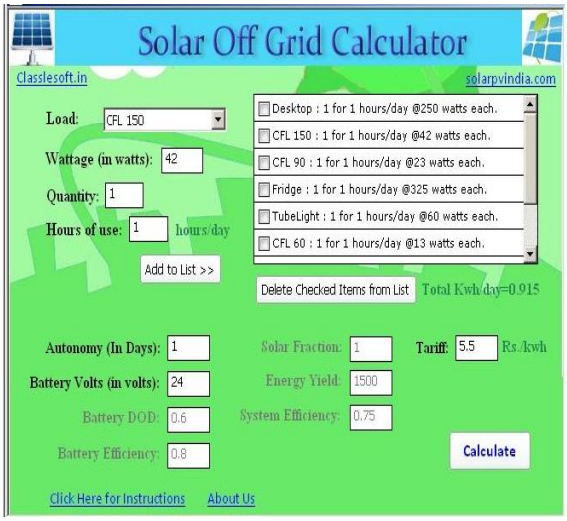
Excel Sheet for the Designing the Solar Panel / Battery Bank / Inverter

http://sourceforge.net/projects/solaroffgridcal/

This is to determine the Solar Panel, Inverter and battery size .



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Calculation of the Solar PV energy output of the Photo Voltaic System

Calculation of the solar PV energy ouput of a photovoltaic system

Yelow cell = enter your own data
Green cell = result (do not change the value)
White cell = calculated value (do not change the value)

Global formula : E = A * r * H * PR

E = Energy (kWh)	2811	kWh/an
A = Total solar panel Area (m²)	20	m²
r = solar panel yield (%)	15%	
H = Annual average irradiation on tilted panels (shadings not included)*	1250	kWh/m².an
PR = Performance ratio, coefficient for losses (range between 0.9 and 0.5, default value = 0.75)	0.75	
Total power of the system	3.0	kWp

Losses details (depend of site, technology, and sizing of the system)

- Inverter losses (6% to 15 %)	8%
- Température losses (5% to 15%)	8%
- DC cables losses (1 to 3 %)	2%
- AC cables losses (1 to 3 %)	2%
- Shadings 0 % to 40% (depends of site)	3%
- Losses weak irradiation 3% yo 7%	3%
- Losses due to dust, snow... (2%)	2%
- Other Losses	0%

*You can find this value on the map below or here : solar radiation data
You have to find the global annual irradiation incident on your PV panels with your specific inclination (slope, tilt) and orientation (azimut).

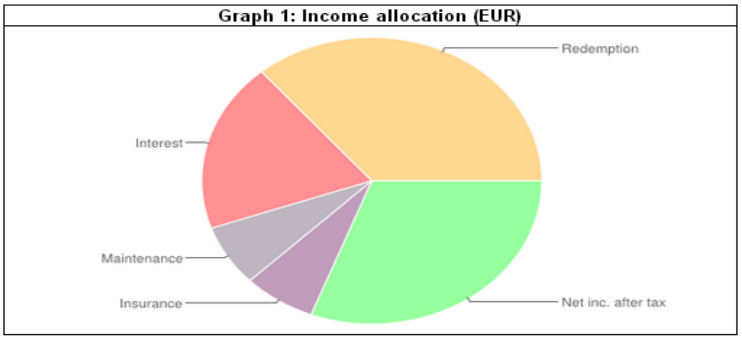
http://pvcalc.org/pvcalc

Results

Project Summary:	
Nominal power (kWp)	5
Purchase value (EUR)	11000
Own Funds (EUR)	2750
Loan amount (EUR)	8505
Present value of net income¹ (EUR)	5004
Levelised energy cost (EUR/kWh)	0.173
Loan type	Redeemable
Amortisation time (y)	15.2
Dividend (EUR)	134.5
Dividend (%)	4.9
IRR before tax (%)	7.3
Eff. tax rate (%)	0.0
IRR (%)	7.3

Download summary as pdf

Graph 1: Income allocation (EUR)



Cash Flows (EUR)

Year	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25
Energy produced (kWh)	5000	4975	4950	4925	4900	4875	4850	4825	4800	4775	4750	4725	4700	4675	4650	4625	4600	4575	4550	4525	4500	4475	4450	4425	4400
Gross income	937	932	928	923	918	914	909	904	900	895	890	885	881	876	871	867	862	857	853	848	1463	1498	1535	1572	1610
Lease	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Insurance	-55	-56	-57	-58	-60	-61	-62	-63	-64	-66	-67	-68	-70	-71	-73	-74	-76	-77	-79	-80	-82	-83	-85	-87	-88
Maintenance	-55	-56	-57	-58	-60	-61	-62	-63	-64	-66	-67	-68	-70	-71	-73	-74	-76	-77	-79	-80	-82	-83	-85	-87	-88
Interest	-353	-339	-324	-310	-295	-279	-264	-248	-231	-214	-197	-180	-162	-143	-124	-105	-85	-64	-44	-22	0	0	0	0	0
EBP²	474	481	489	496	504	513	521	530	539	549	559	569	580	591	602	614	626	639	652	666	1299	1332	1365	1399	1433
Redemption	-340	-347	-354	-362	-370	-378	-387	-396	-405	-414	-424	-435	-445	-456	-468	-479	-492	-504	-518	-531	0	0	0	0	0
Remain. debt	8166	7819	7465	7103	6733	6354	5968	5572	5167	4752	4328	3893	3448	2992	2524	2045	1553	1049	531	-0	0	0	0	0	0
Income bef. tax³	134	134	134	134	134	134	134	134	134	134	134	134	134	134	134	134	134	134	134	134	1299	1332	1365	1399	1433
Depreciation	550	550	550	550	550	550	550	550	550	550	550	550	550	550	550	550	550	550	550	550	0	0	0	0	0
Taxable income	0	0	0	0	0	0	0	0	0	0	9	19	30	41	52	64	76	89	102	116	1299	1332	1365	1399	1433
Tax	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Net inc. after tax	134	134	134	134	134	134	134	134	134	134	134	134	134	134	134	134	134	134	134	134	1299	1332	1365	1399	1433
Income cumul.	134	269	403	538	672	807	941	1076	1210	1345	1479	1614	1748	1883	2017	2151	2286	2420	2555	2689	3989	5321	6685	8084	9517
% amortized	4.3	8.8	13.6	18.6	23.8	29.3	35.1	41.1	47.5	54.1	61.1	68.4	76.1	84.1	92.5	101.3	110.6	120.2	130.4	141.0	157.7	175.4	193.9	213.4	233.9

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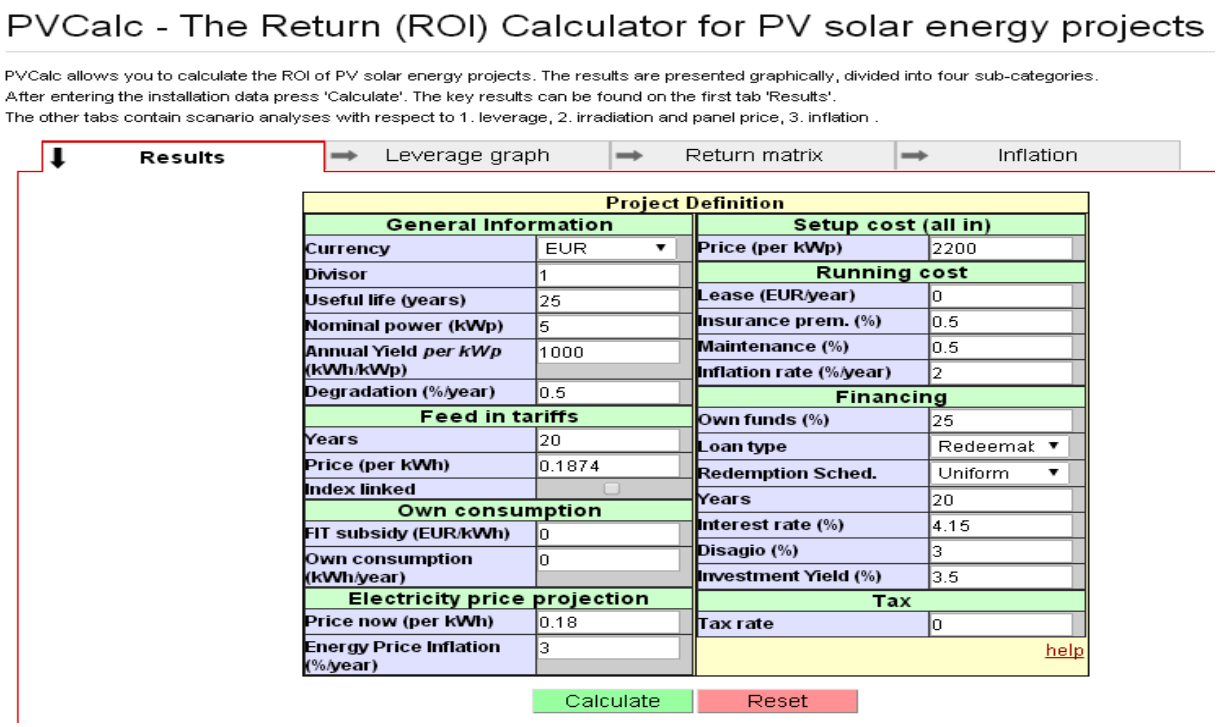

PVCalc - The Return (ROI) Calculator for PV solar energy projects

PVCalc allows you to calculate the ROI of PV solar energy projects. The results are presented graphically, divided into four sub-categories.
After entering the installation data press 'Calculate'. The key results can be found on the first tab 'Results'.
The other tabs contain scenario analyses with respect to 1. leverage, 2. irradiation and panel price, 3. inflation .

Results | Leverage graph | Return matrix | Inflation

Project Definition

General Information		Setup cost (all in)	
Currency	EUR	Price (per kWp)	2200
Divisor	1	**Running cost**	
Useful life (years)	25	Lease (EUR/year)	0
Nominal power (kWp)	5	Insurance prem. (%)	0.5
Annual Yield *per kWp* (kWh/kWp)	1000	Maintenance (%)	0.5
Degradation (%/year)	0.5	Inflation rate (%/year)	2
Feed in tariffs		**Financing**	
Years	20	Own funds (%)	25
Price (per kWh)	0.1874	Loan type	Redeemat
Index linked		Redemption Sched.	Uniform
Own consumption		Years	20
FIT subsidy (EUR/kWh)	0	Interest rate (%)	4.15
Own consumption (kWh/year)	0	Disagio (%)	3
Electricity price projection		Investment Yield (%)	3.5
Price now (per kWh)	0.18	**Tax**	
Energy Price Inflation (%/year)	3	Tax rate	0

help

Calculate Reset

4. DATA COLLECTION(S) & DATA ANALYSIS

Sample shown from e-surveyspro.com [This report was generated through the software and the questionnaire was sent to the participants anonymously]. E-surveyspro.com is a product of outside software Inc. (www.outsidesoftware.com) located at Bd. Decebal, Nr. 25-29 Olympia Tower Etaj 10, Sector 3 Bucharest, Romania.

For the data collection , the method that could be adopted is to prepare an online questionnaire and to collect the responses from the respondents so that either ways i.e. from the problems side or from the solution side , the same could be adopted in the ways mentioned herewith :

To send the survey URL via the e-mail program ----------http://www.eSurveysPro.com/Survey.aspx?id=90dd825b-8c86-4433-8374-0ddf01074114

To link to the survey from the web page ----------Click here to take the survey now. The survey was created with eSurveysPro.com survey software.

To embed the full survey page in the web page ----------<iframe src="http://www.eSurveysPro.com/Survey.aspx?id=90dd825b-8c86-4433-8374-0ddf01074114" frameborder="0"

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width="800" height="600" style="overflow: hidden">Click here to take the survey now. The survey was created with eSurveysPro.com survey software.</iframe>

The questionnaire presented here had been put to

Survey Reports: Customer-Expectations & Customer-Perceptions for any ABC Service(S) Center

Page 1. Directions for the anonymous on-line survey (Academic Purpose)

E1. ABC should have up-to-date equipment . [+Q]	% of Respondents
1STRONGLY DISAGREE	0.00%
2	0.00%
3	22.22%
4	0.00%
5 STRONGLY AGREE	77.78%

E2.ABC should have the physical facilities to be visually appealing . [+Q]	% of Respondents
1STRONGLY DISAGREE	11.11%
2	0.00%
3	0.00%
4	33.33%
5 STRONGLY AGREE	55.56%

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E3.ABC should have the employees in well dressed and appearing neat . [+Q]	% of Respondents
1STRONGLY DISAGREE	0.00%
2	11.11%
3	11.11%
4	22.22%
5 STRONGLY AGREE	55.56%

E4.ABC should have the firm's physical facilities keeping with the type of the services provided. [+Q]	% of Respondents
1STRONGLY DISAGREE	0.00%
2	0.00%
3	11.11%
4	33.33%
5 STRONGLY AGREE	55.56%

E5.ABC should promise to do something by a certain time and they should do so . [+Q]	% of Respondents
1STRONGLY DISAGREE	0.00%
2	0.00%
3	11.11%
4	11.11%
5 STRONGLY AGREE	77.78%

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E6.ABC should be sympathetic and reassuring to hear the customers with the problems . [+Q]	% of Respondents
1STRONGLY DISAGREE	0.00%
2	0.00%
3	11.11%
4	11.11%
5 STRONGLY AGREE	77.78%

E7.ABC should be dependable . [+Q]	% of Respondents
1STRONGLY DISAGREE	22.22%
2	22.22%
3	0.00%
4	11.11%
5 STRONGLY AGREE	44.44%

E8.ABC should provide these services at the time they promise to do so. [+Q]	% of Respondents
1STRONGLY DISAGREE	0.00%
2	0.00%
3	0.00%
4	11.11%
5 STRONGLY AGREE	88.89%

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E9.ABC should keep their records accurately. [+Q]	% of Respondents
1STRONGLY DISAGREE	0.00%
2	11.11%
3	0.00%
4	0.00%
5 STRONGLY AGREE	88.89%

E10.ABC should not be expected to tell the customers exactly when the services would be performed . [-Q]	% of Respondents
1STRONGLY DISAGREE	22.22%
2	22.22%
3	11.11%
4	11.11%
5 STRONGLY AGREE	33.33%

E11.ABC should not be unrealistic for customers to expect the prompt service from the employees of the firms . [-Q]	% of Respondents
1STRONGLY DISAGREE	33.33%
2	11.11%
3	22.22%
4	11.11%
5 STRONGLY AGREE	22.22%

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E12.ABC employees donot always have to be willing to help the customers . [-Q]	% of Respondents
1STRONGLY DISAGREE	77.78%
2	0.00%
3	11.11%
4	11.11%
5 STRONGLY AGREE	0.00%

E13.It is okay if ABC are too busy to respond to customer requests promptly. [-Q]	% of Respondents
1STRONGLY DISAGREE	44.44%
2	11.11%
3	22.22%
4	11.11%
5 STRONGLY AGREE	11.11%

E14.ABC customers should be able to trust the employees of these firms . [+Q]	% of Respondents
1STRONGLY DISAGREE	11.11%
2	0.00%
3	11.11%
4	0.00%
5 STRONGLY AGREE	77.78%

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E15.ABC customers should be able to feel safe in their transactions with these firms employees . [+Q]	% of Respondents
1STRONGLY DISAGREE	11.11%
2	0.00%
3	0.00%
4	11.11%
5 STRONGLY AGREE	77.78%

E16.ABC employees should be polite . [+Q]	% of Respondents
1STRONGLY DISAGREE	0.00%
2	0.00%
3	11.11%
4	0.00%
5 STRONGLY AGREE	88.89%

E17.ABC employees should get adequate support for these firms to do their job well . [+Q]	% of Respondents
1STRONGLY DISAGREE	0.00%
2	0.00%
3	11.11%
4	11.11%
5 STRONGLY AGREE	77.78%

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E18.ABC should not be expected to give the customers individual attention . [+Q]	% of Respondents
1STRONGLY DISAGREE	11.11%
2	33.33%
3	0.00%
4	11.11%
5 STRONGLY AGREE	44.44%

E19.ABC employees should not be expected to give customers personal attention. [-Q]	% of Respondents
1STRONGLY DISAGREE	33.33%
2	11.11%
3	0.00%
4	0.00%
5 STRONGLY AGREE	55.56%

E20.It is unrealistic to expect ABC to have their employees to know what the needs of the customers are. [-Q]	% of Respondents
1STRONGLY DISAGREE	44.44%
2	11.11%
3	11.11%
4	11.11%
5 STRONGLY AGREE	22.22%

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E21.It is unrealistic to expect ABC to have their customers best interests at heart . [-Q]	% of Respondents
1STRONGLY DISAGREE	55.56%
2	0.00%
3	22.22%
4	11.11%
5 STRONGLY AGREE	11.11%

E22.ABC should not be expected to have operating hours convenient to all the customers . [-Q]	% of Respondents
1STRONGLY DISAGREE	33.33%
2	11.11%
3	11.11%
4	11.11%
5 STRONGLY AGREE	33.33%

P1.ABC has up-to-date equipment . [+Q]	% of Respondents
1STRONGLY DISAGREE	11.11%
2	0.00%
3	22.22%
4	22.22%
5 STRONGLY AGREE	44.44%

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P2.ABC physical facilities are visually appealing. [+Q]	% of Respondents
1STRONGLY DISAGREE	0.00%
2	0.00%
3	33.33%
4	11.11%
5 STRONGLY AGREE	55.56%

P3.ABC employees are well dressed and appear neat . [+Q]	% of Respondents
1STRONGLY DISAGREE	11.11%
2	0.00%
3	44.44%
4	0.00%
5 STRONGLY AGREE	44.44%

P4.ABC appearance of the physical facilities keeps with the type of the services provided . [+Q]	% of Respondents
1STRONGLY DISAGREE	11.11%
2	11.11%
3	11.11%
4	11.11%
5 STRONGLY AGREE	55.56%

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P5.ABC whenever promises to do something by a certain time ,it does so . [+Q]	% of Respondents
1STRONGLY DISAGREE	11.11%
2	0.00%
3	22.22%
4	11.11%
5 STRONGLY AGREE	55.56%

P6.ABC is sympathetic and reassuring whenever the customers have the problems . [+Q]	% of Respondents
1STRONGLY DISAGREE	0.00%
2	11.11%
3	44.44%
4	0.00%
5 STRONGLY AGREE	44.44%

P7.ABC is dependable . [+Q]	% of Respondents
1STRONGLY DISAGREE	22.22%
2	0.00%
3	22.22%
4	22.22%
5 STRONGLY AGREE	33.33%

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P8.ABC provides its service at the time it promises to do so . [+Q]	% of Respondents
1STRONGLY DISAGREE	11.11%
2	11.11%
3	11.11%
4	0.00%
5 STRONGLY AGREE	66.67%

P9.ABC keeps its records accurately. [+Q]	% of Respondents
1STRONGLY DISAGREE	11.11%
2	11.11%
3	11.11%
4	11.11%
5 STRONGLY AGREE	55.56%

P10.ABC does not tell exactly when services will be performed . [-Q]	% of Respondents
1STRONGLY DISAGREE	44.44%
2	11.11%
3	33.33%
4	0.00%
5 STRONGLY AGREE	11.11%

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P11.Customers donot receive prompt service from the ABC employees . [-Q]	% of Respondents
1STRONGLY DISAGREE	55.56%
2	11.11%
3	22.22%
4	0.00%
5 STRONGLY AGREE	11.11%

P12.ABC employees are not always willing to help the customers . [-Q]	% of Respondents
1STRONGLY DISAGREE	44.44%
2	22.22%
3	22.22%
4	0.00%
5 STRONGLY AGREE	11.11%

P13.ABC employees are too busy to respond to customer requests promptly. [-Q]	% of Respondents
1STRONGLY DISAGREE	44.44%
2	0.00%
3	22.22%
4	22.22%
5 STRONGLY AGREE	11.11%

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P14.Customers can trust ABC employees . [+Q]	% of Respondents
1STRONGLY DISAGREE	22.22%
2	0.00%
3	22.22%
4	11.11%
5 STRONGLY AGREE	44.44%

P15.Customers feel safe in the transactions with the ABC employees . [+Q]	% of Respondents
1STRONGLY DISAGREE	11.11%
2	11.11%
3	11.11%
4	0.00%
5 STRONGLY AGREE	66.67%

P16.ABC employees are polite . [+Q]	% of Respondents
1STRONGLY DISAGREE	0.00%
2	0.00%
3	33.33%
4	0.00%
5 STRONGLY AGREE	66.67%

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P17.Employees get adequate support from ABC to do their job well . [+Q]	% of Respondents
1STRONGLY DISAGREE	11.11%
2	11.11%
3	22.22%
4	22.22%
5 STRONGLY AGREE	33.33%

P18.ABC doesnot give the customers individual attention . [-Q]	% of Respondents
1STRONGLY DISAGREE	33.33%
2	11.11%
3	55.56%
4	0.00%
5 STRONGLY AGREE	0.00%

P19.ABC employees does not give you personal attention . [-Q]	% of Respondents
1STRONGLY DISAGREE	33.33%
2	0.00%
3	44.44%
4	11.11%
5 STRONGLY AGREE	11.11%

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P20.ABC employees does not know about the needs of the customer . [-Q]	% of Respondents
1STRONGLY DISAGREE	44.44%
2	22.22%
3	11.11%
4	22.22%
5 STRONGLY AGREE	0.00%

P21.ABC does not have the customers best interests at heart . [-Q]	% of Respondents
1STRONGLY DISAGREE	44.44%
2	11.11%
3	22.22%
4	22.22%
5 STRONGLY AGREE	0.00%

P22.ABC doesnot have operating hours convenient to all the customers . [-Q]	% of Respondents
1STRONGLY DISAGREE	44.44%
2	0.00%
3	22.22%
4	22.22%
5 STRONGLY AGREE	11.11%

5. DISCUSSION(s) & FUTURE WORK(s)

This paper tried to present a review on the online tools as the clean and the green tools for the Businesses Sustainence and the future work could mostly lead to the Service Availability Management ,Service Capacity Management , Service Performance Management , Service Continuity Management , Service Event Management , Service Incident Management and Service Problems Management .

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The future customer centers might be focused on the Total Customer Interaction , Total customer transaction, Total customet Consumption , Total Opportunities , ,Customer Relationship Management , Customer Interaction Management , Customer Experience Management and the Customer Interaction Intelligence .

From the literature review , this could also be stated that the most of the business sustainence problems could be dealt with the TRIZ principles :

Sl No.	Principles	Sl No.	Principles
1	Component-Separation	7	Standardisation-Specialisation
2	Symmetry -Asymmetry	8	Action-Reaction
3	Homogeneity-Diversity	9	Partial Action-Excessive Action
4	Expansion-Reduction	10	Direct Action –Indirect Action
5	Mobility-Immobility	11	Continuous Action – Interrupted Action
6	Consumption-Regeneration	12	Preliminary action-Preliminary Counteraction

From the above , this could be stated that the Business Sustainability depends upon the 5W & 1H [what , why , where, when , who , how]and 5W & 2H [what , why , where, when , who , how , how much].

Service systems could be developed with the greater value creation for the B2B,B2C,C2C,B2G,G2C and G2G .

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7. ANNEXURE(S)

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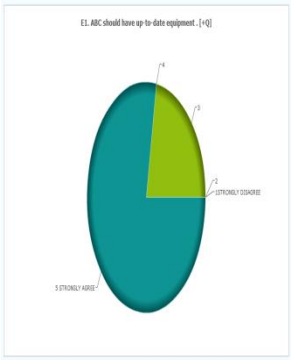

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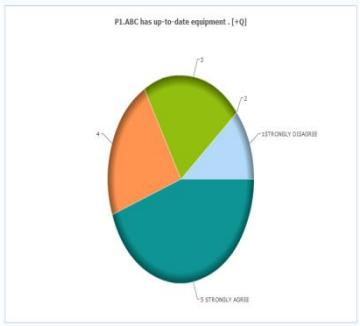

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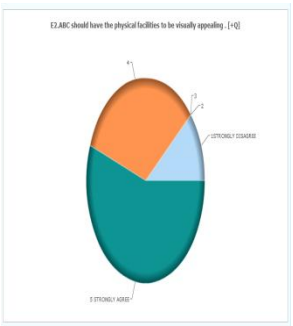

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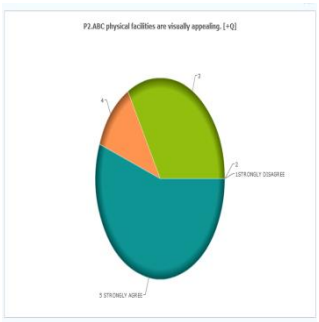

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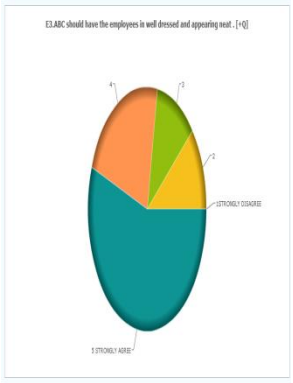

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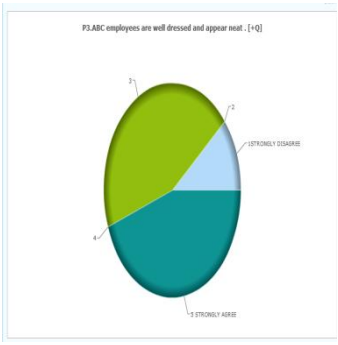

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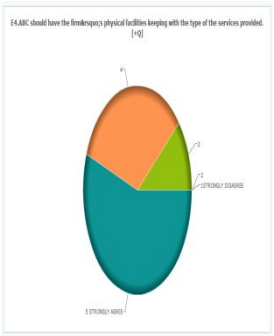

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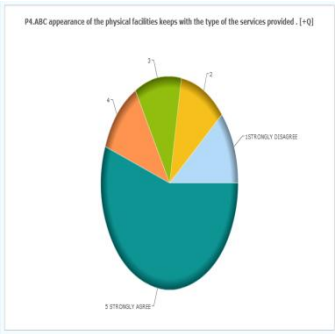

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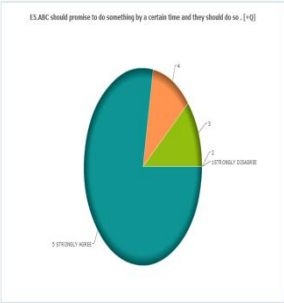

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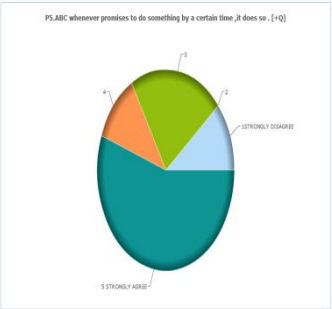

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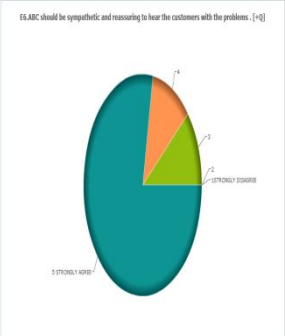

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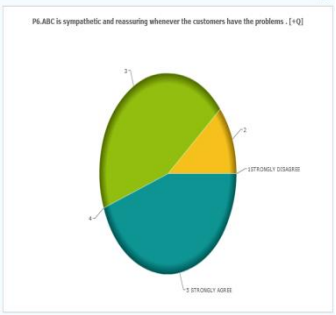

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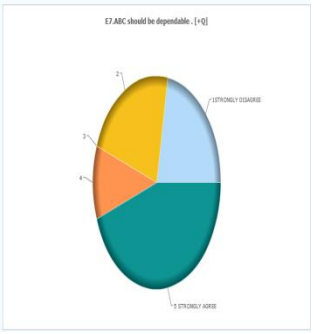

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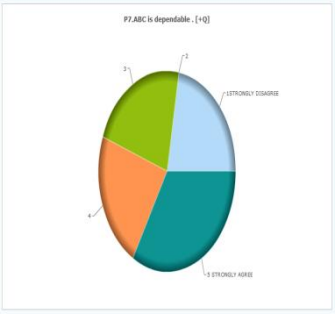

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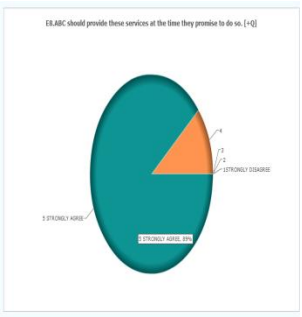

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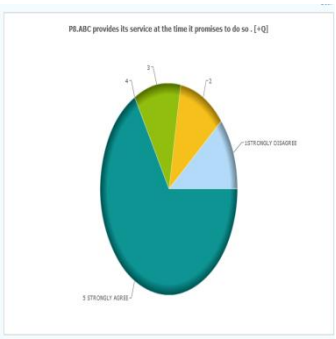

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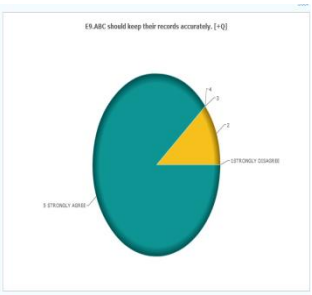

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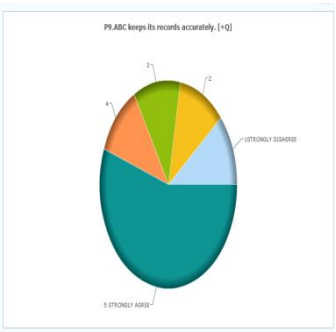

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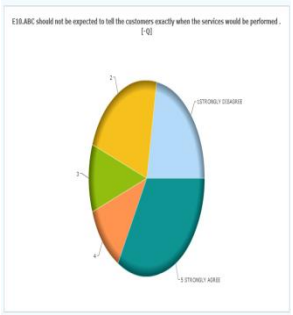

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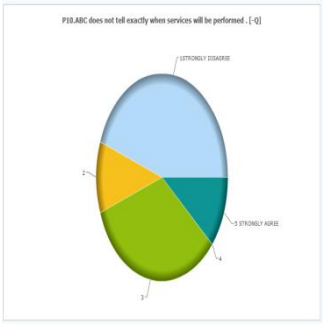

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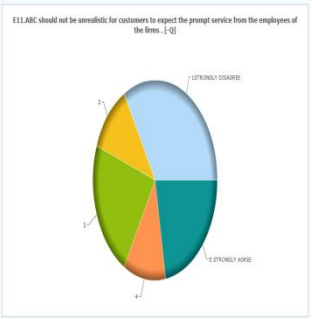

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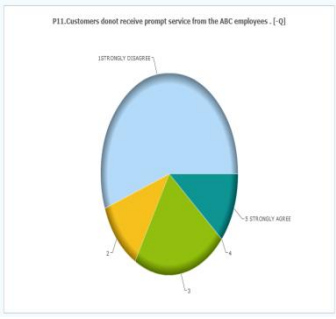

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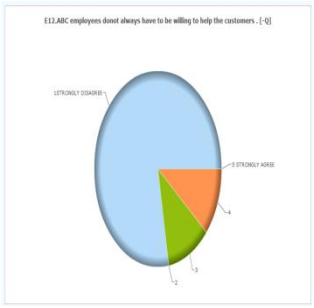

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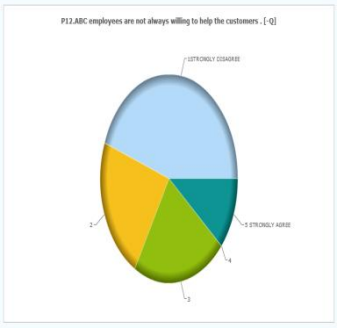

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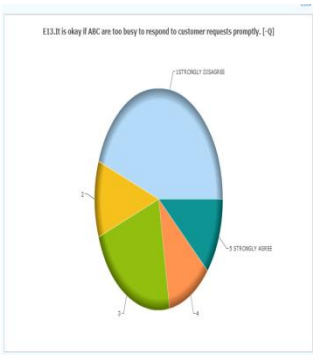

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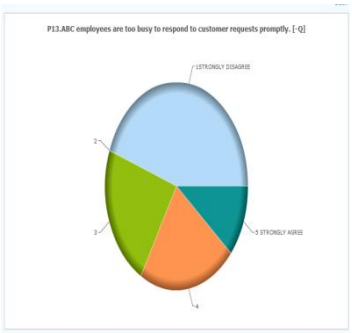

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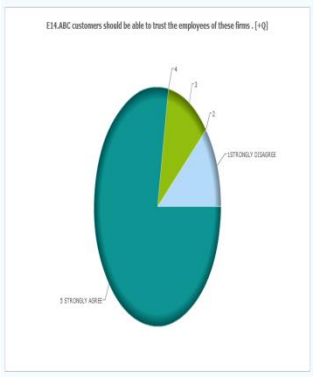

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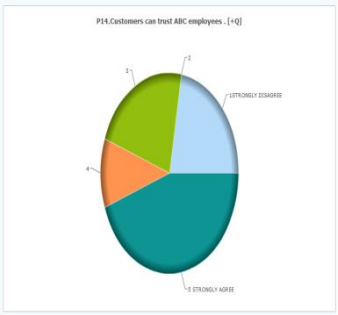

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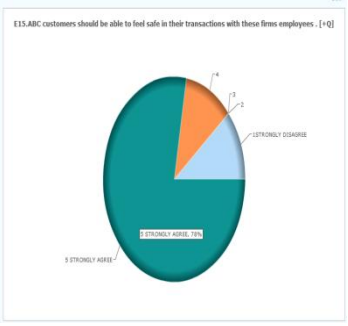

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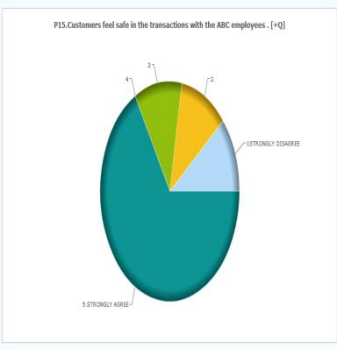

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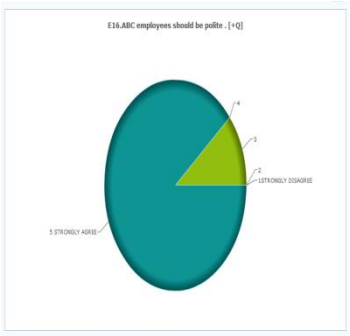

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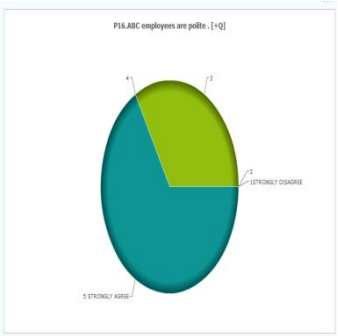

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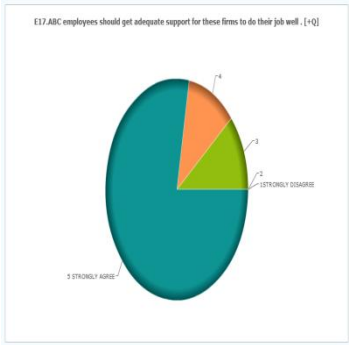

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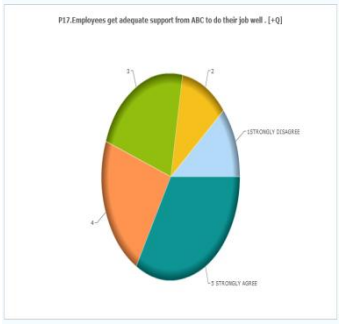

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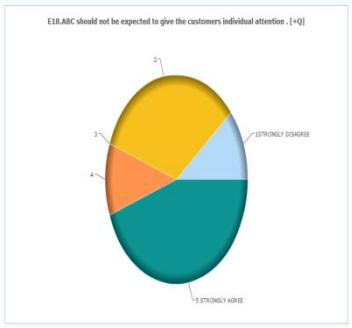

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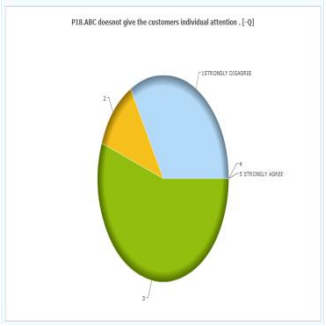

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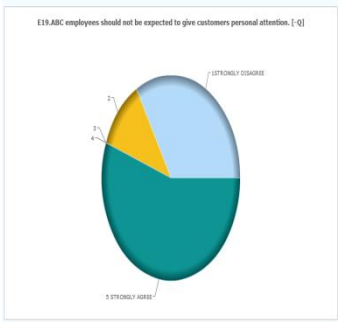

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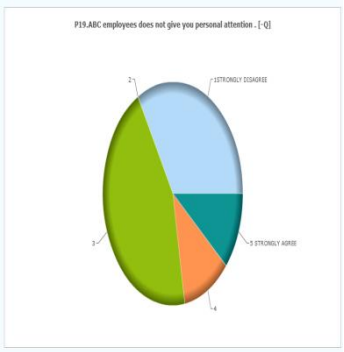

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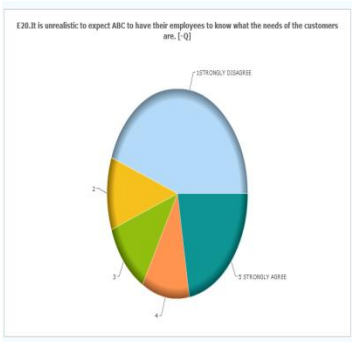

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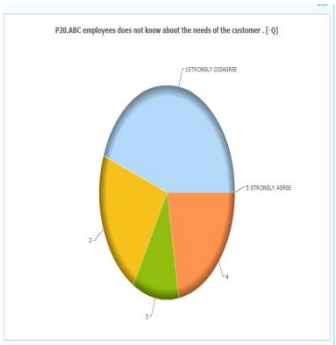

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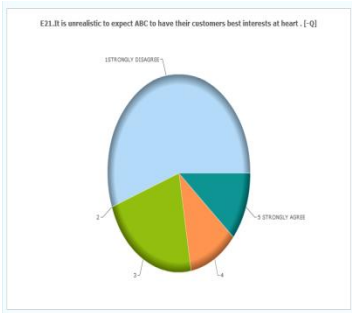

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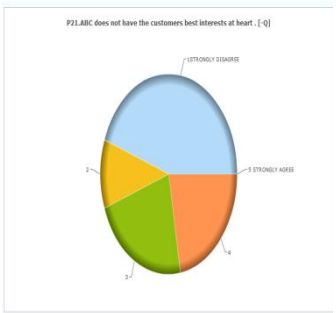

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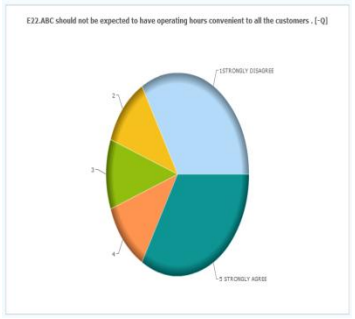

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