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Table of Contents

Articles

Renewable Energy in Malaysia: Experience from Perlis	PDF
Aslam, M.M, Zulkifli, D.A.	1-5
The Importance of Energy And The Use of Energy As A Power Factor	PDF
Bahadir Aydin	6-15
Tenant participation in sustainable renovation projects: using AHP and case studies	PDF
Brano Glumac, Susan Reuvekamp, Qi Han, Wim Schaefer	16-26
Temperature Dependent Current-voltage Characteristics of P-type Crystalline Silicon Solar Cells Fabricated Using Screen-printing Process	PDF
Hyun-Jin Song, Won-Ki Lee, CheolJong Choi	27-31
Solid Waste Management Practices of Households in the University of Eastern Philippines	PDF
Cherry I. Ultra, Allan A. Ultra	32-34
Willingness to pay bid of households for improvement in solid waste collection and disposal services in the University of Eastern Philippines	PDF
Cherry I. Ultra	35-38
Outdoor Large scale Microalgae consortium culture for biofuel production in South Africa: Overcoming adverse environmental effects on microalgal growth	PDF
Maranda Esterhuizen-Londt, Ben Zeelie	39-45
Issues and Strategic Approaches in Strengthening Agricultural Education: The Case of The University Of Eastern Philippines	PDF
Leah Anquilo- de Asis	46-51
Variation In The Role And Coping Mechanism of 4Ps Beneficiaries In Northern Samar	PDF
Veronica A. Piczon, Leah A. De Asis, Tito M. Cabili	52-63
Inventory of the Aquatic Macrophytes in Lake Kharungpat, India	PDF
K. Khelchandra Singh, B. Manihar Sharma, Khurajiam Usha	64-75
Economy Growth and Oil Import Requirement in Indonesia	PDF
Dwi Atty Mardiana, Zulkifli Husin, Muhammad Zilal Hamzah, RS. Trijana Kartoarmodjo	76-83
Electrochemical Treatment of Hazardous Organic Pollutants – A Status Review	PDF
Himadri R. Ghatak	84-89
Vegetation Analysis of the Pasonanca Natural Park, Zamboanga City, Philippines	PDF
Jocelyn D Partosa, Jamaica L Delos Reyes	90-100
Early Detection of Defects and Energy Cost Reduction through Combined Burn-in and Vibration Test for switching Power Supplies	PDF
Jose Rizaldy A. de Armas	101-106
Environmental Policy and Tournaments: A Theoretical Formulation with Over-compliance	PDF
Linus Nyiwul	107-115
Perceived Problems and Prospects on Acceptability of Industrial Waste Sludge As An Alternative Component for Bricks Making	PDF
Ma. Estrella Natalie B. Pineda	116-136
Technical Challenges of Utilizing Biomass Gasification Gas for Power Generation: An Overview	PDF
Mohammad Asadullah	137-143
Improved biological delignification of wood biomass via ionic liquids pretreatment: A one step process	PDF
Muhammad Moniruzzaman, Tsutomu Ono, Suzana Yusup, Sujon Chowdhury, Mohammad Azmi Bustam, Yoshimistu Uemura	144-152
Sorption kinetics and equilibrium studies on the removal of toxic Cr(VI) ions employing modified Indian almond nut shells	PDF
N.Muthalakshmi Andal, G. Gohulavani	153-164
A round-robin project in Japan for the evaluation of nondestructive responses of natural flaws	PDF
Noritaka Yusa, Jing Wang, Ikka Virkkunen	165-169
Forecasting of Electric Consumption in a Semiconductor Plant using Time Series Methods	PDF
Prayad B., Somsak S.	170-177
Regression Models For Prediction Of Water Quality In Krishna River	PDF
M. Chandra Sekhar, K. Surender Reddy	178-181
Growth Linkage between Oil and Gas and Construction Industry of Malaysia (1991-2010)	PDF
Raza Ali Khan, Mohd Shahir Liew, Zulkifli Bin Ghazali	182-186
Greening of the Solid Waste Management in Batangas City	PDF
Paz B. Reyes, Mabelle V. Furto	187-194
Rice Straw Geotextile As Ground Cover For Soil Erosion Mitigation	PDF
Rolando P. Javelonar, Victorino T. Tayan, Ireneo C. Agulto, Teresito G. Aguinidlo, Emmanuel V. Sicut, Helen F. Gavino	195-203
Optimal Generation Scheduling of Hydropower Plant with Pumped Storage Unit	PDF
Krittaphong Chitphairo, Somboon Nuchprayoon	204-210
Effect of Operating Condition on Performance of Anaerobic Hybrid Reactor at Thermophilic Temperature	PDF
Sorawit Wantanukul, Warin Rukruem, Pawinee Chairasert	211-219
Impact of Carbon Tax Levy on Electricity Tariff in Thailand using Computable General Equilibrium Model	PDF
Suwichak Wachirarangerikul, Chumngong Sorapipatana, Nattapong Puttanapong, Jaruwari Chontanawat	220-228
The Impact of Providing Surface Cover on the Soil Loss and Water Discharge under the Moderate Rainfall Event	PDF
Syed Muztazim Hussain Shah, Khamaruzaman Wan Yusof, Zaharizna Mustafa, Ahmad Mustafa Hashim	229-233
Use of Incinerated Rice Husk for Adsorption of Reactive Dye from Aqueous Solution	PDF
Taimur Khan, Malay Chaudhuri, Mohamed Hasnain Isa, Amirul Zaki Bin Abdul Hamid	234-239
An Analysis of RF Sputtering Power and Argon Gas Pressure Affecting on ITO Films Characteristics	PDF
T. Chaikereee, P. Nuchuay, N. Thungasuk, N. Kasayapanand, A. Chaoumead, N. Mungkung	240-245
Knowledge Management as Bridge Of Accounting Information System And Strategic Management	PDF
Vienda A. Kuntjoro	246-250
Smart Growth Principles Combined with Fuzzy AHP and DEA Approach to the Transit-oriented Development (TOD) Planning in Urban Transportation Systems	PDF
Wann-Ming Wey	251-258
Separation, characterization and leaching behaviors of heavy metals in contaminated river sediments	PDF
Yi-Kuo Chang, Zh-Hong Hu, Zhen-Wei Hong, Tsung-Yen Wu, Chun-Chang Cheng	259-263
Techno-Economic Study of Series Current Limiting Reactor and Its Impact in the 11kV Network with Harmonic Pollution	PDF
Y.V. SRIDHAR, HAITHAM SAFAR, NILESH MODI, YOUSUF ALI, YACCOUB AL-DASHTI	264-273
Characterization of Diesel-Hydrogen Peroxide Fuel Blend	PDF
Muhammad Saad Khan, Iqbal Ahmed, M I Abdul Mutalib, M A Bustam	274-279
Natural Adsorbent: Removal of Anionic surfactant from grey water and its comparison with chemical adsorbent	PDF
Chanda Verma, Santosh K. Sar, J. Mathew	280-290
Attribute prioritization in choice experiment pre-design: suggested method and application to solid waste management service improvement	PDF
Shehu Usman Adam, Mad Nasir Shamsudin, Shaufique F. Sidique, Khalid Abdul Rahim, Alias Radam	291-296
Water hyacinth (Eichhornia crassipes (Mart.)Solms) Chopper cum Crusher : A Solution for Lake Water Environment	PDF
Shallendra Mohan Mathur	299-306
Enhancement on Radon Adsorption Property of GAC using Nano-size Carbon Colloids	PDF
Seungchan Choi, Seon-hong Kim, Do-hyeon Kim, Min-jun Kim, Gyeong-min Kang, Seungyeon Cho	307-311
Evaluation and Implications of Greenhouse Gas and Energy Targert Management System in Korea	PDF
YeonSang Lee, Meoung-Do Kim, Intaek Yoon, Sohyun Yoon	312-319
Living More Humanely and Sustainably: A Framework for Embracing Environmental Ethics as a Driver to Stable, Just and Self-Sustaining Societies and Economies of the World	PDF
Githui Donatus Mathenge	320-323
Green Supply Chain Management: Strategy to Gain Competitive Advantage	PDF
Meythi -, Riki Martusa	334-341
New-type of Multi-purpose Standard Radon Chamber in South Korea	PDF
Min-jun Kim, Seon-hong Kim, Do-hyeon Kim, Ho-jun Jeon, Seung-Yeon Cho	342-345
Prospects of Building Information Modeling (BIM) in Malaysian Construction Industry as Conflict Resolution Tool	PDF
Syed Shujaa Safdar Gardezi, Nasir Shafiq, M. Faris B. Khamidi	346-350
Design and Development of Autotransformer Motor Starter for Induced Draft Fan (IDF) of Batangas Sugar Central Inc.	PDF
RHOBERT E. ALVAREZ, TIRSO A. RONQUILLO	351-363
The Sustainability Accounting Information System	PDF
Riki Martusa -, Meythi .	364-368
Sun as a clean energy source for lighting buildings Case Study: Daylighting Design in Tehran (Iran)	PDF
Seyed Hossein Mirmousavi	369-373
Assessing Financial Vulnerability of Cooperative	PDF
Muhammad Azas Mohd Bukhori, Rohana Othman, Nooraslinda Abdul Aris, Normah Omar	374-381
Assessment of Risk Using Financial Ratios in Non-Profit Organisations	PDF
Norliza Omar, Roshayani Arshad, Wan Ainul Asyiqin Wan Mohd Razali	382-389
Assurance of CSR and Sustainability Reports: Empirical Evidence from an Emerging Economy	PDF
Tamoi Janggu, Faizah Darus, Yussri Sawani, Mustafa Mohamed Zain	390-396
An Examination of the Diversification Benefits of SRI in a Portfolio Context	PDF
Sophia X.N. Bian, Victor Wong	397-407
Financial Vulnerability, Risk Management and Accountability of Non-Profit Organisations	PDF
Roshayani Arshad, Noorbijan Abu Bakar, Wan Ainul Asyiqin Wan Mohd Razali, Normah Omar	408-414
Environmental Management Accounting Practices: A Survey of ISO 14001 Certified Malaysian Organizations	PDF
Aliza Ramli, Mohd Sobre Ismail	415-432
Environmental Disclosure of Islamic Financial Institutions (IFIs): Preliminary Evidence from Malaysia	PDF
Faizah Darus, Haslinda Yusoff, Nor Khadijah Mohd Azhari	433-439
Exploring the Environmental Reporting Practices of Islamic Banks: A Case of Malaysia and Indonesia	PDF
Haslinda Yusoff, Faizah Darus, Hasan Fauzi, Yadi Purwanto	440-445
Exploring Risk Management Disclosure Practices In Non Profit Organisations In Malaysia	PDF
Wan Ainul Asyiqin Wan Mohd Razali, Roshayani Arshad, Normah Omar	446-456
Pyramid of Maslahah for Social and Economic Welfare: The Case of Bank Islam Malaysia Berhad	PDF
Nooraslinda Abdul Aris, Rohana Othman, Rafidah Mohd Azli	457-470
Review of Green Building Demand Factors for Malaysia	PDF
Godwin Uche Alagha, Malizon Hashim, Afeez Olalekan Sanni, Kherun Nita Ali	471-478
Organisational Characteristics and Accountability in Protecting Risk Exposures in Non-Profit Organisations	PDF
Noorbijan Abu Bakar, Roshayani Arshad, Nik Amalena Najebah Nik Azman, Normah Omar	479-488
Hydrothermal Synthesis and Characterization of One-dimensional Ceria Nanorod for Chromium Ion Removal from Wastewater	PDF
Sujan Chowdhury, Madiha Yasir, Mohammad Azmi B Bustam, Kuen-Song Lin	489-494
The Strategy of Upland Agriculture Development Towards Sustainable Environmental Management: Case Study at Ngebel, Ponorogo District, East Java, Indonesia	PDF
Suhartini .	495-500

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PREVIOUS

Vol 3, No 12 (2013) Journal of Energy Technologies and Policy

NEXT

Vol 3, No 12 (2013) Journal of Information Engineering and Applications

The Sustainability Accounting Information System

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Abstract

Global warming have become a global disaster. Recently, a lot of nations meet in United Nations Conference on Sustainable Development, Rio+20. The conference generates a lot of decisions to develop sustainability of the world. The sustainability emerges as a notion to give a solution on global warming cases. Sustainability accounting gives some solution by accounting perspectives. A few of sustainability accounting researches have given the new perspective about sustainability. We try to propose a integrated information system that how to the companies accountable toward economic, social and environmental cases. The first step, the companies must integrate business strategy with society. They can use the two linkages (looking inside out and looking outside in linkages) to do that. So the companies can do their operation sustainably. In collecting the data, companies can use twinrack approach so that they can prepare their sustainably strategies with very well. The second step, we propose that the government or their body of representation controls sustainability from each companies (go public companies) through disclosure mechanism in annually financial statement. Hopefully, this article can give new contribution to sustainability accounting researches.

Keywords: Sustainability, information system, inside out linkage, outside in linkage, and twinrack approach.

1. Introduction

Every entities need informations as basic foundation to prepare their goal or target. A lot of companies need informations to compete each others in achieving their profit target. A few of companies which have advantage information is a leader market. The companies must accountable their operation toward investors and creditors as their primary priorities. Yet companies should account their operation too toward their governmental, communities, labor etc. which we generally called as stakeholder. Government, activist, and the media have become adept at holding companies to account for the social consequences of their activities (Porter & Kramer, 2006). The recent matters of environmental destruction change, slowly but sure, to become a global warming.

The global warming tend to become the problem in all of the world. The one of causes from global warming is environmental impact. The most potential of environmental impact were affected by the industrial operation. Hence, the companies become a primary suspect of environmental impacts by the interested parties. So the companies have a liabilities in restoring health of their environment. This paper proposes a blended idea about how to make an integrated information system to account every activities of their operations to public or shareholder. The beginning question in this paper is why must the companies accounts for every activities or operation which relating with environment? The answer that the world especially the biosphere going to agony. This matter was caused by uncontrollable the operation of companies. The rhetorical question emerges that the industrial revolution is going to forward or backward in human civilization? The damage of the earth becomes critical things to all of parties. The environment of companies is natural capital by the operations of companies

According to Gray (1994) in Lamberton (2005) suggests 4 (four) categories of natural capital:

1. Critical, for example, ozone layer, tropical hardwood, biodiversity.
2. Non-renewable/non-substitutable, for example, oil, petroleum, and mineral product.
3. Non-renewable/substitutable, for example, waste disposal, energy usage.
4. Renewable, for example, plantation timber, fisheries.

The four of categories from natural capital shows to us that not to all of natural resources which manages by companies can be renewable. Thus, every companies must aware about this matters and every governments have a responsibility to control the utilization of natural resources in their operation.

Natural capital inventory accounting could be predominantly non-financial, tracking resources flows in quantitative, but non-monetary units (Gray, 1994 in Lamberton, 2005), although Jones (1996) in Lamberton (2005) suggests exploring the valuation of natural assets using financial units. Jones (1996) in Lamberton (2005)

applies the inventory approach to the problem of accounting for biodiversity, adopting a three part process involving the recording, valuing and reporting of natural asset wildlife habitat, flora and fauna, and suggests aggregating records of individual organization to build national record of natural resources. According to Lamberton (2005), accounting for natural inventories is in its exploratory stage. Both the accuracy and potential usefulness of this information needs to be tested with further theoretical and empirical research (Lamberton, 2005).

In this article, we begin with a curiosity questions that how to keep the health of earth, especially our environment sustainably. Those matter becomes a crucial things because we must be responsible to maintain livelihood from our future generation. The companies is a part of society. When companies do their operation, they will involve the life of society which tied up in their business. So the companies have an accountable to restore these environment. In sustainability accounting concept, the companies have an accountable not only to shareholder economically but their worker socially and communities for environmental too. This paper can devide the discussion in two parts. The first part, we study how to integrate business strategy with society. The second part, we study that the body of representation must control accountability of companies sustainably through discoure mechanism. This mechanism can be called as health check up from the government to companies about their sustainability.

2. Literature Review

2.1 *What happen with the environment (World Commission on Environment and Development, 1987)*

Changing drivers, such as population growth, economic activities and consumption patterns, have placed increasing pressure on the environment. Serious and persistent barriers to sustainable development remain. In the past 20 years, there has been limited integration of environment into development decision making. Environmental degradation is therefore undermining development and threatens future development progress. Development is a process that enables people to better their well-being. Long-term development can only be achieved through sustainable management of various assets: financial, material, human, social and natural. Natural assets, including water, soils, plants and animals, underpin people's livelihoods.

Environmental degradation also threatens all aspects of human well-being. Environmental degradation has been demonstrably linked to human health problems, including some types of cancers, vector-borne diseases, emerging animal to human disease transfer, nutritional deficits and respiratory illnesses. The environment provides essential material assets and an economics base for human endeavour. Almost half the jobs worldwide depend on fisheries, forest or agriculture. Non-sustainable use of natural resources, including land, water, forest and fisheries, can threaten individual livelihood as well as local, national and international economies. The environment can play a significant role in contributing to development and human well-being, but can also increase human vulnerability, causing human migration and insecurity, such as in the case of storms, droughts or environmental mismanagement. Environmental scarcity can faster cooperation, but also contribute to tension or conflicts.

2.2 *The emergence of Corporate Social Responsibility (CSR)*

The tension of activist, communities and government to companies have emerged since the early 1990s. Nike, for example, faced an extensive consumer boycott after the *New York times* and other media outlets reported abusive labor practices at some of its Indonesia suppliers in the early 1990s (Porter & Kramer, 2006). According to Porter & Kramer (2006), Shell Oil's decision to sink the *Brent Spar*, an obsolete oil rig, in the North Sea led to Greenpeace protests in 1995 and to international headlines. Pharmaceutical companies discovered that they were expected to respond to the AIDS pandemic in Africa even though it was far removed from their primary product lines and markets (Porter & Kramer, 2006).

According to Porter & Kramer (2006) that proponent of CSR have used 4 (four) arguments to make their case:

a. Moral Obligation

During the last twenty-five years, there has been an increasing expectation that business exists to serve the needs of both shareholder and society (Brooks & Dunn, 2010). The companies were established in a country. Thus, the companies should aware not only to shareholder but stakeholder which tie up with their operations. Of course, the companies have a moral obligation to stakeholder. To survival at this moment, the companies must switch the old model paradigm (shareholder only) to new model paradigm (stakeholder).

b. Sustainability

The issues of global warming have attended all of parties in the world. The global communities have focused to keep environment from destruction. Then the term of sustainability begins to emerge in academic and practical. Some of ideas about how to create a mind set for corporate sustainability, for example S²VE (Shareholder and Social Added Value with Environment restoration) approach (Grayson *et al.*, 2008)

c. License to operate

The notion of license to operate derives from the fact that every company need tacit or explicit permission from governments, communities, and numerous other stakeholder to do business (Porter & Kramer, 2006).

d. Reputation

Reputation is used by many companies to justify CSR initiatives on the grounds that they will improve the company's image, strengthen its brand, enliven morale, and even raise the value of its stock (Porter & Kramer, 2006).

These four argument is vulnerable. The first, moral obligation only become a discussion in business ethic class and never to be a solution in supporting the CSR implementation. The second, sustainability topic emerges together triple bottom line concept. How to balance between the demands of investors (profit), environment (planet), and society (people) (Grayson *et al.*, 2008). In accounting field, sustainability accounting and reporting still become a debate about being a fad or a trend (Burritt & Schaltegger, 2010). The third, license to operate is only a legal term. The matter doesn't showcases an implication of CSR. The Fourth, reputation only a cliché term which shows that the companies have a good image from the society in short term, but not to longterm.

The implication of CSR by companies must based on transparency, for example honesty in disclosing and filing financial statement regarding their environmental impact. Because the CSR field remains strongly imbued with a moral imperative (Porter & Kramer, 2006). According to Porter & Kramer (2006), business and society don't only have a interdependence relationship but they must be integrated between the strategy and the need of society. For example, the body shop sells shampoo, soap, creambath, etc. which were produced from the natural resources. The company works as teammates with the farmer. The two linkages from Porter & Kramer (2006) give a solution to integrate between a business strategy with society, namely looking inside out linkage and looking outside in linkage. The looking inside out linkage describes how to companies map social opportunities in the value chain form.

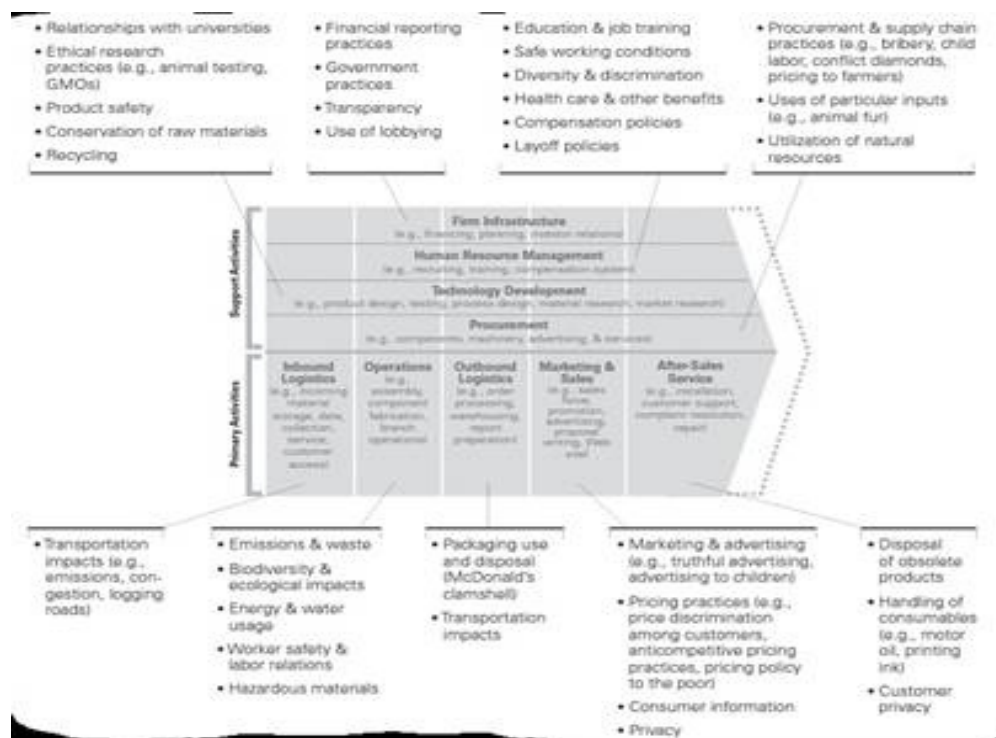


Figure 1. Looking inside out: Mapping the social impact of the value chain (Porter & Kramer, 2006)

The looking outside in linkage describes about how to companies understand of the social dimensions of their competitive context (Porter & Kramer, 2006). Porter & Kramer (2006) acknowledges that this linkage describe how to company's ability to improve productivity and execute strategy in the location. In collecting the information data to this linkage, the companies can use some indicators from Global Reporting Initiatives (GRI). The indicators of GRI can be screen with ranking the need of stakeholder accord to power, legality and urgency (Brooks & Dunn, 2010). So the companies must consider benefit-cost analysis in preparing the report. The twinrack approach can be a alternative way to collect the data. In twinrack approach, companies get the sources of information data to the both linkages.

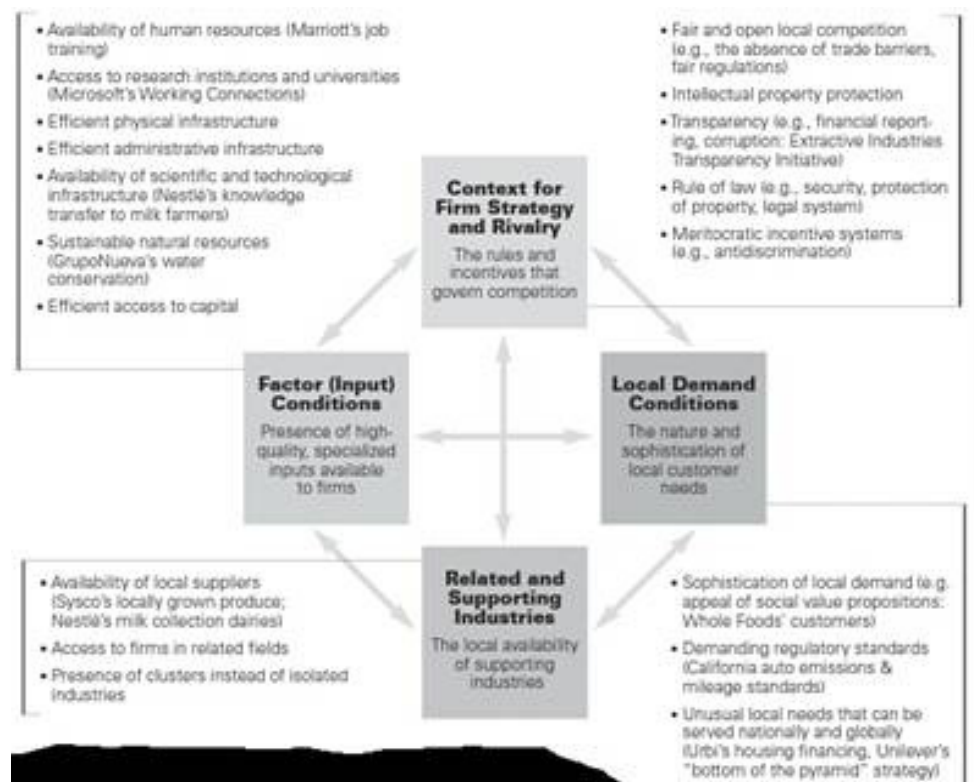


Figure 2. Looking outside in: Social influences on the competitiveness (Porter & Kramer, 2006)

In disclosing the sustainability in financial statement, companies can use some indicators of disclosure in Global Reporting Initiatives (GRI) especially G4. The government should role as the authority to do health check up on the sustainability of each companies. The body of representation from the government could do these task. So we won't get a shock about the increase of the global warming. Each companies must be examined through health check up about their sustainability annually. This notion is based on precautionary principle (Lamberton, 2005).

3. Conclusions

Accounting has a critical roles in keeping our earth sustainably. We propose the integrated idea to make the information system which forces the company leads their operation of business to sustainable. The companies to integrate their business strategy with the need of society. So a few of companies can lead others to follow their way. For example, toyota with hybrid car and the body shop with natural product. Thus perceiving social responsibility as building shared value rather than as damage control or as a PR (Public relation) campaign will require dramatically different thinking in business (Porter & Kramer, 2006). Porter & Kramer (2006) said that we are convinced, however, that CSR will become increasingly important to competitive success. In collecting the information data, companies could use twinrack approach. They can utilize keys performance indicators (KPI) of GRI to search the sources of information. This approach gives a new perspective about the influence of management control systems on environmental management (termed eco-control) and economic and environmental performance of organisations (Henry & Journeault, 2010 in Burritt & Schaltegger, 2010).

According to Henry & Journeault (2010) in Burritt & Schaltegger (2010) that there is four main of uses data:

1. To monitor compliance with environmental policies and regulation.
2. To motivate continuous improvement.
3. To provide data for internal decision making.
4. To provide data for external decision making.

Then each government must control the system with doing health check up about sustainability of the companies. Hopefully, GRI would prepare more harder to create a Generally Accepted Sustainability Accounting Principles (GASAP). Each companies in the world will be controlled by each government relate with the sustainability through mandatory disclosure mechanism about the environmental impact.

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