Sustainability Reporting By Universities In Indonesia Abstract

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Abstract: *This study aims to describe sustainability reporting practices by universities in Indonesia by knowing the reporting channel used by universities and the conformity of information disclosure with GRI G4 indicator and campus sustainability assessment instrument. This study uses a framework with 73 indicators based on GRI and a campus sustainability assessment instrument to analyze information disclosed by universities in Indonesia. The results of the analysis show that the level of disclosure of sustainability information conducted by universities in Indonesia is lower when compared with universities in Canada and Lithuania. Disclosure of information undertaken by universities in Indonesia remains limited in scope, and no universities disclose sustainability information in an integrated report.*

Keywords: *Sustainability reporting, GRI, University, Legitimacy Theory*

Intisari: *Penelitian ini bertujuan untuk mendeskripsikan praktik pelaporan keberlanjutan oleh perguruan tinggi di Indonesia dengan mengetahui saluran pelaporan yang digunakan oleh universitas dan kesesuaian pengungkapan informasi dengan indikator GRI G4 dan instrumen penilaian keberlanjutan kampus. Penelitian ini menggunakan kerangka kerja dengan 73 indikator berdasarkan GRI dan instrumen penilaian keberlanjutan kampus untuk menganalisis informasi yang diungkapkan oleh universitas di Indonesia. Hasil analisis menunjukkan bahwa tingkat pengungkapan informasi keberlanjutan yang dilakukan oleh universitas di Indonesia lebih rendah bila dibandingkan dengan universitas di Kanada dan Lithuania. Keterbukaan informasi yang dilakukan oleh universitas di Indonesia masih terbatas dalam ruang lingkupnya, dan tidak ada universitas yang mengungkapkan informasi keberlanjutan dalam laporan terpadu.*

Kata Kunci: *Pelaporan Keberlanjutan, GRI, Universitas, Teori Legitimasi*

1. Introduction

The increasing attention and awareness of the environment require economic growth and development to not only generate profits, but they must also focus on human and environmental aspects through the concept of triple bottom line (profit, people, planet). Brundtland (1987) defines sustainable development as a development that meets current needs without neglecting the ability of future generations to meet their needs. Sustainability development has become an unwritten norm for governments and several economic sectors, including universities (Fonseca et al. 2011). Sustainability report will enable the entity to communicate to their stakeholders its role and contribution to sustainable development. Although there have been many studies on sustainability reporting, there are still few that examine the sustainability reporting by universities. Even though universities have an essential role in sustainable development in this several areas:

- a. Research on sustainability development;
- b. Green campus operation activities and social initiatives to increase society life around university area;
- c. Involvement in society life;
- d. Sustainability development education; and
- e. Assesment and reporting.

Therefore, this study aims to answer some questions related to the practice of sustainability reporting by universities in Indonesia and to describe the efforts of universities in communicating their role in sustainable development to their stakeholders.

1.1 Research questions

1. How is the practice of sustainable information disclosure by universities in Indonesia?
2. What sustainability information has been disclosed by universities in Indonesia?

3. How is the conformity of sustainability information disclosed by universities in Indonesia with the GRI G4 indicator and campus sustainability assessment tools?

1.2 Research objective

1. Describe the sustainable reporting practice by universities in Indonesia,
2. Assess the conformity of sustainability reporting by universities with GRI G4 standards and campus sustainability assessment instruments.

2. Literature Review

2.1 Stakeholder Theory

Stakeholders are groups or individuals who are affected by the positive and negative impacts of organizational activities and are parties whose rights are valued or violated by organizational activities (Freeman 1984). Marshall et al. (2010) stated that university leaders must act as agents of all stakeholders and should communicate with all stakeholders through sustainability reporting. Participating in sustainable development is one of the ways universities can do to create better and more sustainable community conditions and indirectly will make universities continue (sustain).

All university effort in sustainable development must be accessible to all stakeholders, and this can be realized through sustainability reporting. In the context of sustainability reporting, universities can carry out sustainability reporting to meet the information needs of stakeholders and convince their stakeholders that universities have carried out operations that are in line with the interests of stakeholders.

2.2 Legitimacy Theory

Legitimacy is understood as a general perception or assumption that an entity's actions are desired, appropriate, or compatible with social constructs such as norms, values, beliefs, and definitions (Suchman 1995, 574). Lindblom (1994) defines legitimacy as a condition or status that exists when the organizational value system is following the value system of the social system in which the organization is located. When there is a potential difference in the value system, there is a threat to the legitimacy of the organization.

Sustainability reports can help universities to obtain or maintain approval from the community and with that approval, the organization can sustain. Sustainability information disclosure can also be a tool for universities to demonstrate their responsibility and concern towards the environment and society. Sustainability reports can be used by universities to build trust and credibility with increased transparency. The community and the government can also assess the suitability of higher education operations with the norms and values that apply in the community through sustainability reports. By revealing sustainability information, universities convey messages to their stakeholders that their operations are in line with the expectations of the stakeholders and indirectly maintain their legitimacy.

2.3 Sustainability Development

The definition of sustainable development, according to the Brundtland Report (1987), is a development that meets current needs without neglecting the ability of future generations to meet their own needs. Universities can facilitate the need for thoughts about sustainability through teaching, curriculum, and research. Education is a core component in achieving a sustainable world (Zachariou, Kaila, and Katsikis 2008). Higher education is a "form of community value" and "an organization that influences sustainable development" (Godemann et al. 2014).

2.4 Sustainability Reporting

Sustainability reports are essential to evaluate and encourage the involvement of universities in sustainable development. Sustainability reporting can be used as a tool to evaluate and communicate the involvement of universities in sustainability development. Sustainability reporting is a voluntary activity with two main objectives: (1) to assess organizational progress towards sustainability, and (2) to communicate the organization's business progress in the environmental and social dimensions to stakeholders (Dalal-Clayton and Bass 2002; Global Reporting Initiative 2014).

Sustainability reporting by universities is needed to identify and fulfill the expectations of stakeholder groups and to build communication channels with

stakeholders. Sustainability reporting allows universities to be transparent about the obligations of accountability and service (Alonso-Almeida et al. 2014). Sustainability reporting by universities aims to communicate the mission and values of tertiary institutions, operations and performance activities related to sustainability issues that cannot be met by traditional reporting by universities that only focus on research projects, publications, patents, graduates, curriculum and financial information (Garde, Rodríguez, and López 2013).

3. Research Method

3.1 Research Design

This research is descriptive. Research, whose purpose is to describe a problem, situation, and event. Descriptive research is usually designed to collect data that allows researchers to describe a person, event or situation. This type of research can help researchers to understand the characteristics of a group in certain situations (Sekaran and Bougie 2013, 97).

3.2 Population and Sample

The population of this study is universities in Indonesia. The number of universities in Indonesia registered in the Ministry of Technology, and Higher Education Research of the Republic of Indonesia in 2017 is 3,276. The sample used in this study is 20 universities which are the 20 best universities in the Dikti ranking in 2017. Because the sample is selected from the best universities, it will reflect the best practices and trends of universities in Indonesia.

3.3 Research Instrument

The research instruments used in this study are indicators adopted from the GRI G4 reporting guidelines and campus sustainability assessment tools. The researcher used the GRI G4 guide in this study for two reasons. First, compared to other sustainable reporting guidelines, GRI has a better background of experimentation. To date, the GRI guide has become a reference guide to sustainable reporting throughout the world. The

reason for the two authors using the GRI G4 guide is that GRI is considered as a tool that can harmonize many approaches related to sustainable reporting by universities (Lozano 2006b; Newport, Chesnes, and Lindner 2003). The limitations of the GRI guidelines do not include indicators related to sustainability in research, environmentally friendly buildings, canteens, and other issues relevant to universities (Fonseca et al. 2011). To fill these limitations, the researchers used a framework of 20 indicators of campus sustainability assessment instruments adopted from the research of Fonseca et al. (2011).

3.4 Data Collection Technique

The data collection technique used in this study is document observation. The type of data used in this study is secondary data, namely the data that is publicly available which is contained in universities reports and websites.

3.5 Data Analysis Technique

The analytical method used in this study is content analysis. Content analysis is a research technique used to produce conclusions that can be replicated and are valid from the text (or other things) in the context of its use (Krippendorff 2004, 18). Downe-Wamboldt (1992) describes content analysis as a research method that provides a systematic and objective way to make valid conclusions from verbal, visual or written data with the aim of describing and quantifying specific phenomena. The qualitative content analysis includes four stages, namely planning, data collection, data analysis and compilation which are elaborated as follows (Bengtsson 2016):

1. Planning

All research will begin by determining what researchers want to find out, from whom and how (Bengtsson 2016). At this stage, the determination of objectives, samples, and unit of analysis is carried out.

2. Data Collection

Research questions in this study will be answered using analysis of data in the form of information and reports published in 2017 and university websites.

3. Data Analysis

The data analysis phase aims to organize and obtain meaning from the data collected so that conclusions can be made that are valid and realistic (Polit and Beck 2006). The data analysis process includes four steps, namely decontextualization, recontextualization, categorization, and compilation. All stages in the content analysis in this study will be included in the appendix section. The following are the four stages of the data analysis process:

a. Decontextualisation

In this process, the researcher read the data and make a list of codes. The researcher must make a list and explanations of codes to reduce cognitive changes in the analysis process to maintain reliability (Downe-Wamboldt 1992; Morse and Richards 2002). In this study, a list of tick box frame codes was adopted from GRI G4 reporting standards and campus sustainability assessment tools adopted from the research of Fonseca et al. (2011).

b. Recontextualisation

In this process, researchers identify and label meaningful units in the data with codes based on existing indicators, then researchers re-read the original text and ensure all meaningful units have been recorded (Bengtsson 2016).

c. Categorization

In this process, researcher group report and information data published by universities into categories that are made based on GRI G4 reporting standards and campus sustainability assessment tools adopted from the research of Fonseca et al. (2011).

d. Compilation

In the compilation process, researchers carry out the analysis process by category, conduct reliability testing and make conclusions. Internal reliability was obtained when independent researchers re-analyzed the information and found the same results as the original researchers (Zohrabi 2013). According to Milne and Adler (1999), reliability in content analysis can be tested using two methods:

1. Proof that the data produced from the analysis process is reliable.
2. Reliability is related to coding instruments.

Because the coding instrument used in this study was taken from the GRI reporting guide, which is the most widely used sustainability reporting guide in the world and the campus sustainability assessment instrument adopted from the research of Fonseca et al. (2011) which has gone through previous reliability testing, then the reliability testing that will be conducted in this study is only to test the reliability of the data produced.

The most common way to prove the reliability of the data produced is to use multiple coder methods and compare the differences between the coder or analyze the differences that exist and then solve it with a discussion between coder (Milne and Adler 1999). In this study, researchers asked colleagues who had accounting knowledge to retest the disclosure assessments that had been carried out by universities using the GRI G4 standard and campus sustainability assessment instruments.

4. Report and Presentation

The report of a research effort is an official review of what was done, why the research was carried out, the results and the contribution to existing knowledge (Krippendorff 1991, 291-292). The reporting and presentation phase allows the rationality of research results to be evaluated by various parties.

4. Result And Discussion

4.1 Description of the Research Object

The object of this research is universities in Indonesia. The sample used in this study is 20 universities which are the 20 best universities according to the Ministry of Technology and Higher Education Research of the Republic of Indonesia in 2017. The 20 best universities are Universitas Gadjah Mada (UGM), Institut Teknologi Bandung (ITB), Institut Pertanian Bogor (IPB), Universitas Indonesia (UI), Institut Teknologi Sepuluh Nopember (ITS), Universitas Diponegoro (UD), Universitas Airlangga (UA), Universitas Brawijaya (UB), Universitas Hasanuddin (UH), Universitas Negeri

Yogyakarta (UNY), Universitas Sebelas Maret (UNS), Universitas Andalas (UAN), Universitas Pendidikan Indonesia (UPI), Universitas Padjajaran (UP), Universitas Negeri Malang (UNM), Universitas Negeri Semarang (UNES), Universitas Udayana (UU), Universitas Lampung (UL), Universitas Sumatera Utara (USU), and Universitas Jember (UJ). Sources of research data were obtained through financial reports, annual reports, rector's reports, and websites of each university. Information about the complete data source is presented in Table 4.1.

How is the practice of sustainable information disclosure by universities in Indonesia?

The results of an analysis of sustainability information disclosure by universities show that the most widely used channel of sustainability information disclosure by universities are websites (20), financial reports (15), annual reports (8), and the least widely used is the rector's report (3). These results indicate that the practice of sustainability information disclosure by universities in Indonesia still takes various forms. Table 4.1 shows the information channels used by each university.

In the identification process in this study, sustainability information channel is categorized as coming from financial reports, annual reports, rector reports and websites with the following conditions:

1. Financial statements, if university publishes the income statement and balance sheet.
2. Annual report, if the university publishes a report that has a one-year period. Some universities that are the sample of this study have different annual report titles.
3. Rector's report, if the college publishes the rector's speech in the form of a rector's report.
4. The website, if the university has a website that contains information about the organization's profile and study program information. For the website address of each university, is included in the appendix section.

Table 4. 1

Sustainability Information Channel used by Universities

No.	University Name	Sustainability Information Channel				Percentage of Availability of Information Channel
		Financial Report	Annual Report	Rector's Report	Website	
1	Universitas Gadjah Mada	✓		✓	✓	75%
2	Institut Teknologi Bandung	✓			✓	50%
3	Institut Pertanian Bogor	✓	✓		✓	75%
4	Universitas Indonesia	✓	✓		✓	75%
5	Institut Teknologi Sepuluh Nopember				✓	25%
6	Universitas Diponegoro				✓	25%
7	Universitas Airlangga	✓			✓	50%
8	Universitas Brawijaya	✓	✓		✓	75%
9	Universitas Hasanuddin	✓	✓		✓	75%
10	Universitas Negeri Yogyakarta	✓	✓		✓	75%
11	Universitas Sebelas Maret	✓		✓	✓	75%
12	Universitas Andalas	✓			✓	50%
13	Universitas Pendidikan Indonesia	✓			✓	50%
14	Universitas Padjajaran	✓	✓		✓	75%
15	Universitas Negeri Malang	✓			✓	50%
16	Universitas Negeri Semarang	✓	✓	✓	✓	100%
17	Universitas Udayana				✓	25%
18	Universitas Lampung				✓	25%
19	Universitas Sumatera Utara	✓	✓		✓	75%
20	Universitas Jember				✓	25%
Total		15 (75%)	8 (40%)	3 (15%)	20 (100%)	

Based on the identification results from table 4. 1, the most popular channel of information disclosure used by universities is the website. The majority of information disclosed on university websites is information on the standard categories of general disclosures, namely organizational profiles, study programs, research, college projects, governance, and ethics and integrity.

Some universities like Universitas Indonesia, Universitas Negeri Yogyakarta, Universitas Padjajaran, and Universitas Sumatera Utara enclose their financial statements in the annual report while Universitas Sebelas Maret encloses its financial statement on rector's report. Five universities namely Institut Teknologi Sepuluh Nopember, Universitas Diponegoro, Universitas Udayana, Universitas Lampung and Universitas Jember does not include the financial statements in the annual report, the rector's report, and the website. The non-publication of financial reports by several universities shows that some universities are less concerned about the information needs of stakeholders, this is reflected in the lack of access to information for stakeholders. For information disclosed by universities in the available channel of information, disclosure will be discussed more detail in the next sub-chapter.

What has sustainability information been disclosed by universities in Indonesia?

The three categories and subcategories most commonly disclosed by universities in Indonesia are general standard disclosures (69%), research (65%) and economics (48%). This is because the indicators in the general standard disclosures and economic disclosures such as profiles, strategies, and economic performance are common things disclosed by an entity, while research is one of the main activities of universities. Therefore, it is only natural that universities widely disclose this subcategory. The least disclosure subcategories are human rights (8%), communities (17%), and green buildings and procurement (19%). This percentage shows that the disclosures made by Indonesian universities are still limited in scope. The following graph 4.1 shows the level of disclosure of sustainability information by universities.

Graph 4.1

Level of Disclosure of Sustainability Information by Universities

The low disclosure of several indicators by universities can be caused by the following:

1. Universities don't do practice related to information in indicators,
2. Universities have carried out practices related to information in indicators, but because of the insufficient and unintegrated documentation process, universities are not able to disclose this information,
3. Indonesian universities only disclose information to authorities, so the information cannot be accessed by the public.

The results of the analysis show that the use of the GRI guidelines to assess the sustainability of universities still requires a lot of adjustments because many indicators in GRI that are related to human rights, society, and labor practices are still not reported by universities. Although universities can create new policies or programs to report these indicators, the cost-benefit constraints of the implementation of the new policies must be considered. There are more important indicators to be equipped by universities such as environmentally friendly buildings and curriculum. This opinion is supported by the argument from Fonseca et al. (2011) and Orr and Eagan (1992) below.

Buildings have a pedagogic role in the lives of students, staff, and faculty (Fonseca et al. 2011). The design of the building and the landscape of the college does not seem to influence the education process, but the fact is that buildings and landscapes reflect hidden curricula that have a strong influence on the educational process (Orr and Eagan 1992).

In the context of higher education, research and education are the main activities of the organization. The number of significant disclosures in the research indicator shows that Indonesian universities have attempted to measure the progress of their research activities. While the low disclosure of curriculum and teaching indicators shows that universities in Indonesia have not systematically measured the progress in implementing the principle of sustainability in lecture material. The low disclosure of curriculum and teaching indicators represents the absence of cultivating the principles of sustainability through teaching activities held by Indonesian universities. This shows that universities in Indonesia still have not contributed to sustainable development through the cultivation of ideas.

How is the conformity of sustainability information disclosed by universities in Indonesia with the GRI G4 indicator and campus sustainability assessment tools?

Based on the results of the data codification, it appears that the average Indonesian universities only disclose 31% of the indicators. The university with the most comprehensive disclosure was Universitas Negeri Semarang (45 indicators, 62% appropriate), and the one which least comprehensive disclosed indicators was Universitas Udayana (10 indicators, 14% appropriate). With the average rate of disclosures at 31% with only 10% (2 universities) have a percentage of conformity above 50%, it can be concluded that the disclosure of sustainability information by universities in Indonesia is still relatively low when compared to universities in Canada, which have a 37% rate of disclosure and universities in Lithuania which have a 48% rate of disclosure.

From the 20 samples, there are also no universities that disclose sustainability information in one integrated report. This is due to the absence of rules that require universities to issue integrated sustainability reports. The following possibilities can cause the low disclosure and lack of integration of sustainability information disclosed by Indonesian universities:

1. Sustainable development has not become a goal and has not been considered important by Indonesian university stakeholders. This led to the low demands of the stakeholders to universities to disclose sustainability information. The low demands of the stakeholders caused low disclosure by universities.
2. The lack of concern for the environment has resulted in environmentally friendly operations not being the norm in Indonesian society so that the level of sustainable information disclosure does not affect the legitimacy of universities.
3. Stakeholders of universities did not expect sustainability practices by universities so that the disclosures made by universities have fulfilled the expectations of stakeholders. Or the expectations of the stakeholders have not been met, but because of the lack of complaints channels of dissatisfaction, the stakeholders' dissatisfaction is not conveyed.

Apart from the above possibilities, universities still have a moral obligation to educate the public about the impact of their operations on the environment. Indonesian universities also need to improve the disclosure of sustainability information that they have done.

5. Conclusion

Related to the first research question, the reporting channels and report forms used by universities in Indonesia are still diverse, and the most popular reporting channels used by universities are websites. There are still universities that do not present financial reports. Reports generated by universities are still not integrated.

Related to the second research question, some conclusions can be drawn as follows:

a). The categories and subcategories most disclosed by universities are general standard disclosures with an average of 69%. Research with an average of 65%, and the economy with an average of 48%. The subcategories that were least disclosed were human rights with an average of 8%, community with an average of 17%, and green buildings and procurement with an average of 19%. This result showed that the information disclosed by universities is still limited to the scope of the organization's profile, strategy, and governance. The disclosure of specific disclosure standards, especially those related to the environment and society is still low. B). The low disclosure of several indicators by universities can be caused by the following: (1) universities do not practice-related information in indicators, (2) universities have carried out practices related to information in indicators, but because of insufficient and unintegrated documentation process, universities are not able to disclose this information, (3) Indonesian universities only disclose information to authorities, so the public can not access the information. C). Numerous adjustment is necessary for the use of GRI guidelines to assess the sustainability of universities because many indicators in GRI that are related to human rights, community, and labor practices are yet to be reported by universities. Although universities can create new policies or programs to report these indicators, the cost-benefit constraints of the implementation of the new policies must be considered. D). It is essential for Indonesian universities to complete the disclosure of information related to environmentally friendly buildings and curriculum. Two arguments support this conclusion, namely the argument from Fonseca et al. (2011) and Orr and Eagan (1992) described in chapter 4.

Related to the third research question, some conclusions can be drawn as follows:

a). With average conformity of 31%, sustainability information disclosure by universities in Indonesia is still relatively low compared to universities in Canada whose average conformity is 37% and universities in Lithuania whose conformity is 48%. B). The low disclosure of sustainability information by Indonesian universities shows that the demands of the world community in several international declarations have not been

effective in influencing Indonesian universities to make changes in the practice of education and policy-making that are more environmentally friendly. C). Of the 20 research sample, Universitas Negeri Semarang obtained the highest percentage of disclosure of 62% with the suitability of information disclosure with the GRI G4 standard and the Campus Sustainability Assessment Instrument as many as 45 indicators.

5.1 Suggestion and limitation

There are some limitations of this study. First, the data analyzed in this study is only limited to those revealed by the 20 best universities in Indonesia in 2017. It would be better if the next research adds to the sampled universities and adds data from the reports disclosed in the previous year. Second, the assessment in this study uses a checklist technique with a 1-0 rating and performed by one coder. To reduce subjectivity, subsequent researches could use a rating model of 0-4 and be performed by 2 or more coders. Finally, preferably, universities disclose more sustainability information related to green buildings and curricula in addition to creating an integrated sustainability report to facilitate communication with stakeholders who wish to access sustainability information. Integrated sustainability information disclosure will improve comparability and can illustrate the extent to which universities contribute to sustainable development.

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Appendix

Appendix 1:

List of Rankings and Universities Codes

Rank	University Name	Code
1	Universitas Gadjah Mada	UGM
2	Institut Teknologi Bandung	ITB
3	Institut Pertanian Bogor	IPB
4	Universitas Indonesia	UI
5	Institut Teknologi Sepuluh Nopember	ITS
6	Universitas Diponegoro	UD
7	Universitas Airlangga	UA
8	Universitas Brawijaya	UB
9	Universitas Hasanuddin	UH
10	Universitas Negeri Yogyakarta	UNY
11	Universitas Sebelas Maret	UNS
12	Universitas Andalas	UAN
13	Universitas Pendidikan Indonesia	UPI
14	Universitas Padjajaran	UP
15	Universitas Negeri Malang	UNM
16	Universitas Negeri Semarang	UNES
17	Universitas Udayana	UU
18	Universitas Lampung	UL
19	Universitas Sumatera Utara	USU
20	Universitas Jember	UJ

Appendix 2:

List of GRI G4 Categories and Indicators and Campus Sustainability assessment instruments developed by Fonseca et al. (2011).

No	Category and Indicator
	General Standard Disclosure
1	Strategy and Analysis
2	Organizational Profile
3	Identified Material Aspects and Boundaries

No	Category and Indicator
4	Stakeholders Engagement
5	Report Profile
6	Governance
7	Ethics and Integrity
	Specific Standard Disclosures
	<i>Economic</i>
8	Economic Performance
9	Market Presence
10	Indirect Economic Impacts
11	Procurement Practices
	<i>Environmental</i>
12	Materials
13	Energy
14	Water
15	Biodiversity
16	Emissions
17	Effluents and Waste
18	Products and Services
19	Compliance
20	Transport
21	Overall
22	Supplier Environmental Assesment
23	Environmental Grievance Mechanisms
	<i>Labor Practices and Decent Work</i>
24	Employment
25	Labor/Management Relations
26	Occupational Health and Safety
27	Training and Education
28	Diversity and Equal Opportunity
29	Equal Remuneration for Women and Men
30	Supplier Assessment for Labor Practices
31	Labor Practices Grievance Mechanisms
	<i>Human Rights</i>

No	Category and Indicator
32	Investment
33	Non-discrimination
34	Freedom of Association and Collective Bargaining
35	Child Labor
36	Forced or Compulsory Labor
37	Security Practices
38	Indigenous Right
39	Assessment
40	Supplier Human Rights Assessment
41	Human Rights Grievance Mechanisms
	<i>Society</i>
42	Local Communities
43	Anti-Corruption
44	Public Policy
45	Anti-competitive Behavior
46	Compliance
47	Supplier Assessment for Impacts on Society
48	Grievance Mechanisms for Impacts on Society
	<i>Product Responsibility</i>
49	Customer Health and Safety
50	Product and Service Labeling
51	Market Communications
52	Customer Privacy
53	Compliance
	Campus Sustainability Assessment Instrument
	<i>Research</i>
54	Policies Related to Sustainability in Research
55	Research Centres/Labs Related to Sustainability
56	Sustainability-related Research Programs
57	Incentives to Sustainability Research
58	Funding and Grants for Sustainability Research
59	Academic Production Related to Sustainability
60	Sustainability-related Research Projects

No	Category and Indicator
	<i>Curriculum and Teaching</i>
61	Policies Related to Sustainability in Curriculum
62	Courses Related to Sustainability
63	Students Taking Sustainability-related Courses
64	Sustainability Literacy Assessment
65	Degree Programs Related to Sustainability
66	Non-curricular Teaching Initiatives Related to Sustainability
67	Scholarships Offered to Sustainability-related Education
	<i>Green Buildings and Procurement</i>
68	Green Buildings and Renovations
69	Green Spaces
70	Food Services
71	Recycled Paper
72	Green Electronics
73	Green Furniture

Process of Quantitative Content Analysis (Bengtsson 2016)

Figure 3. 1 Process of Qualitative content Analysis (Bengtsson 2016)

Appendix 4: Suitability of Sustainability Information Disclosure by Universities with GRI G4 Standards and Campus Sustainability Assessment Instruments

N o	Category and Indicator	UG M	IT B	IP B	UI	IT S	U D	U A	UB	U H	UN Y	UN S	U A N	U PI	UP	UN M	UN ES	U U	U L	US U	UJ	Total (Aver age)
	General Standard Disclosure																					
1	Strategy and Analysis	✓	✓	✓	✓			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	18
2	Organizational Profile	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	20
3	Identified Material Aspects and Boundaries	✓					✓				✓				✓							4
4	Stakeholders Engagement				✓				✓						✓					✓		4
5	Report Profile	✓	✓	✓	✓			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓			✓		15
6	Governance	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	20
7	Ethics and Integrity	✓	✓	✓	✓			✓		✓	✓	✓	✓	✓	✓	✓	✓	✓		✓	✓	16
	Percentage of Suitability	86 %	71 %	71 %	86 %	29 %	43 %	71 %	71 %	71 %	86 %	71 %	71 %	71 %	100 %	71 %	71 %	57 %	43 %	86 %	57 %	(69%)
	Economic																					
8	Economic Performance	✓	✓	✓	✓			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓			✓		15
9	Market Presence	✓																				1
10	Indirect Economic Impacts	✓													✓							2
11	Procurement Practices	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	20
	Percentage of Suitability	100 %	50 %	50 %	50 %	25 %	25 %	50 %	50 %	50 %	50 %	50 %	50 %	50 %	75 %	50 %	50 %	25 %	25 %	50 %	25 %	(48%)
	Environmental																					
12	Materials																✓			✓		2

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N o	Category and Indicator	UG M	IT B	IP B	UI	IT S	U D	U A	UB	U H	UN Y	UN S	U A N	U PI	UP	UN M	UN ES	U U	U L	US U	UJ	Total (Aver age)
1 3	Energy	✓			✓	✓									✓		✓			✓		6
1 4	Water	✓																		✓		2
1 5	Biodiversity			✓					✓				✓				✓	✓				5
1 6	Emissions					✓											✓			✓		3
1 7	Effluents and Waste					✓											✓			✓		3
1 8	Products and Services	✓	✓	✓	✓		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	19
1 9	Compliance																					0
2 0	Transport	✓		✓	✓	✓		✓				✓	✓		✓	✓	✓			✓		11
2 1	Overall																✓					1
2 2	Supplier Environmental Assesment																					0
2 3	Environmental Grievance Mechanisms		✓		✓	✓	✓					✓					✓		✓		✓	8
	Percentage of Suitability	33 %	17 %	25 %	33 %	42 %	17 %	17 %	17 %	8 %	8%	25 %	25 %	8 %	25 %	17 %	75 %	17 %	17 %	58 %	17 %	(25%)
	Labor Practices and Decent Work																					
2 4	Employment	✓			✓	✓					✓	✓		✓	✓		✓			✓		9
2 5	Labor/Manageme nt Relations										✓											1
2 6	Occupational Health and Safety	✓															✓					2

N o	Category and Indicator	UG M	IT B	IP B	UI	IT S	U D	U A	UB	U H	UN Y	UN S	U A N	U PI	UP	UN M	UN ES	U U	U L	US U	UJ	Total (Aver age)
2 7	Training and Education	✓			✓	✓					✓	✓			✓		✓			✓		8
2 8	Diversity and Equal Opportunity				✓												✓					2
2 9	Equal Remuneration for Women and Men	✓			✓										✓		✓			✓		5
3 0	Supplier Assessment for Labor Practices																					0
3 1	Labor Practices Grievance Mechanisms		✓		✓	✓	✓					✓					✓		✓		✓	8
	Percentage of Suitability	50 %	13 %	0 %	63 %	38 %	13 %	0 %	0%	0 %	38 %	38 %	0%	13 %	38 %	0%	75 %	0 %	13 %	38 %	13 %	(22%)
	Human Rights																					
3 2	Investment																					0
3 3	Non- discrimination					✓									✓		✓					3
3 4	Freedom of Association and Collective Bargaining										✓											1
3 5	Child Labor																					0
3 6	Forced or Compulsory Labor																					0
3 7	Security Practices				✓				✓		✓									✓		4
3 8	Indigenous Right																					0
3 9	Asesment																					0

N o	Category and Indicator	UG M	IT B	IP B	UI	IT S	U D	U A	UB	U H	UN Y	UN S	U A N	U PI	UP	UN M	UN ES	U U	U L	US U	UJ	Total (Aver age)
4 0	Supplier Human Rights Assessment																					0
4 1	Human Rights Grievance Mechanisms		✓		✓	✓	✓					✓					✓		✓		✓	8
	Percentage of Suitability	0%	10 %	0 %	20 %	20 %	10 %	0 %	10 %	0 %	20 %	10 %	0%	0 %	10 %	0%	20 %	0 %	10 %	10 %	10 %	(8%)
	Society																					
4 2	Local Communities	✓			✓				✓		✓	✓		✓	✓	✓	✓			✓		10
4 3	Anti-Corruption											✓										1
4 4	Public Policy				✓										✓		✓					3
4 5	Anti-competitive Behavior																✓					1
4 6	Compliance				✓																	1
4 7	Supplier Assessment for Impacts on Society																					0
4 8	Grievance Mechanisms for Impacts on Society		✓		✓	✓	✓					✓					✓		✓		✓	8
	Percentage of Suitability	14 %	14 %	0 %	57 %	14 %	14 %	0 %	14 %	0 %	14 %	43 %	0%	14 %	29 %	14 %	57 %	0 %	14 %	14 %	14 %	(17%)
	Product Responsibility																					
4 9	Customer Health and Safety	✓			✓									✓	✓		✓					5
5 0	Product and Service Labeling	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	20

N o	Category and Indicator	UG M	IT B	IP B	UI	IT S	U D	U A	UB	U H	UN Y	UN S	U A N	U PI	UP	UN M	UN ES	U U	U L	US U	UJ	Total (Average)
51	Market Communications			✓	✓						✓				✓							3
52	Customer Privacy																					0
53	Compliance				✓						✓											2
	Percentage of Suitability	40 %	20 %	40 %	80 %	20 %	20 %	20 %	20 %	20 %	60 %	20 %	20 %	40 %	60 %	20 %	40 %	20 %	20 %	20 %	20 %	(30%)
	Research																					
54	Policies Related to Sustainability in Research	✓	✓	✓	✓	✓			✓	✓	✓	✓		✓	✓	✓	✓			✓		14
55	Research Centres/Labs Related to Sustainability	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		19
56	Sustainability-related Research Programs		✓	✓	✓	✓	✓		✓	✓	✓	✓		✓	✓	✓	✓			✓		14
57	Incentives to Sustainability Research				✓	✓			✓		✓	✓			✓		✓					7
58	Funding and Grants for Sustainability Research		✓		✓	✓			✓		✓	✓	✓		✓		✓			✓		10
59	Academic Production Related to Sustainability	✓	✓		✓	✓	✓	✓	✓		✓	✓			✓	✓	✓			✓		13
60	Sustainability-related Research Projects		✓	✓	✓	✓	✓		✓	✓	✓	✓		✓	✓	✓	✓			✓		14
	Percentage of Suitability	43 %	86 %	57 %	100 %	100 %	57 %	29 %	100 %	57 %	100 %	100 %	29 %	57 %	100 %	71 %	100 %	14 %	14 %	86 %	0 %	(65%)

N o	Category and Indicator	UG M	IT B	IP B	UI	IT S	U D	U A	UB	U H	UN Y	UN S	U A N	U PI	UP	UN M	UN ES	U U	U L	US U	UJ	Total (Aver age)
	Curriculum and Teaching																					
6 1	Policies Related to Sustainability in Curriculum	✓		✓	✓						✓		✓	✓	✓		✓					8
6 2	Courses Related to Sustainability				✓						✓						✓					3
6 3	Students Taking Sustainability- related Courses																					0
6 4	Sustainability Literacy Assessment			✓																		1
6 5	Degree Programs Related to Sustainability				✓						✓				✓		✓					4
6 6	Non-curricular Teaching Initiatives Related to Sustainability			✓	✓						✓				✓		✓				✓	6
6 7	Scholarships Offered to Sustainability- related Education		✓	✓	✓				✓	✓	✓	✓			✓		✓	✓	✓		✓	12
	Percentage of Suitability	14 %	14 %	57 %	71 %	0%	0 %	0 %	14 %	14 %	71 %	14 %	14 %	14 %	57 %	0%	71 %	14 %	14 %	0 %	29 %	(24%)
	Green Buildings and Procurement																					
6 8	Green Buildings and Renovations				✓		✓		✓						✓		✓					5
6 9	Green Spaces	✓		✓	✓	✓			✓						✓		✓			✓		8
7 0	Food Services	✓	✓	✓					✓					✓								5

N o	Category and Indicator	UG M	IT B	IP B	UI	IT S	U D	U A	UB	U H	UN Y	UN S	U A N	U PI	UP	UN M	UN ES	U U	U L	US U	UJ	Total (Aver age)
7 1	Recycled Paper			✓													✓			✓		3
7 2	Green Electronics				✓															✓		2
7 3	Green Furniture																					0
	Percentage of Suitability	33 %	17 %	50 %	50 %	17 %	17 %	0 %	50 %	0 %	0%	0%	0%	17 %	33 %	0%	50 %	0 %	0 %	50 %	0 %	(19%)
	Total Indicator	73	73	73	73	73	73	73	73	73	73	73	73	73	73	73	73	73	73	73	73	
	Total Indicator being Reported	27	21	23	42	23	15	12	23	14	30	26	14	18	35	16	45	10	12	30	13	(22,45)
	Percentage of Suitability	37 %	29 %	32 %	58 %	32 %	21 %	16 %	32 %	19 %	41 %	36 %	19 %	25 %	48 %	22 %	62 %	14 %	16 %	41 %	18 %	(31%)

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