

## **Online-Appendix zu**

# "Opportunities and Challenges in Commissioning Materiality-Driven Sustainability Reporting Towards the SDGs: The Case of Cadeler A/S"

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### APPENDIX

Table 1 GRI Standards Framework incl.	G4 Aaareaation Laver and Disclosure	s (based on GRI. 2020a)

Category	Subcategory	Standard	Торіс		Description
conomic		GRI 201	Economic Performance	201-1	Direct economic value generated and distributed
				201-2	Financial implications and other risks and opportunities due to climate change
				201-3	Defined benefit plan obligations and other retirement plans
				201-4	Financial assistance received from government
		GRI 202	Market Presence	202-1	Ratios of standard entry level wage by gender compared to local minimum wage
				202-2	Proportion of senior management hired from the local community
		GRI 203	Indirect Economic	203-1	Infrastructure investments and services supported
			Impacts	203-2	Significant indirect economic impacts
		GRI 204	Procurement Practices	204-1	Proportion of spending on local suppliers
		GRI 205	Anti-Corruption	205-1	Operations assessed for risks related to corruption
				205-2	Communication and training about anti-corruption policies and procedures
				205-3	Confirmed incidents of corruption and actions taken
		GRI 206	Anti-Corruptive Behavior	206-1	Legal actions for anti-competitive behavior, anti-trust, and monopoly practices
		GRI 207	Tax	207-1	Approach to tax
				207-2	Tax governance, control, and risk management
				207-3	Stakeholder engagement and management of concerns related to tax
				207-4	Country-by-country reporting
nviron-m		GRI 301	Materials	301-1	Materials used by weight or volume
ental				301-2	Recycled input material used
				301-3	Reclaimed products and their packaging materials
		GRI 302	Energy	302-1	Energy consumption within the organization
				302-2	Energy consumption outside the organization
				302-3	Energy intensity
				302-4	Reduction of energy consumption
				302-5	Reductions in energy requirements or products and services
		GRI 303	Water & Effluents	303-1	Interactions with water as a shared resource
				301-2	Management of water discharge-related impacts
				303-3	Water withdrawal
				303-4	Water discharge
				303-5	Water consumption
		GRI 304	Biodiversity	304-1	Operational sites owned, leased, managed in, or adjacent to, protected areas and areas of high biodiversity va
					outside protected areas
				304-2	Significant impacts of activities on products, and services on biodiversity
				304-3	Habitats protected or restored
				304-4	IUCN Red List species and national conservation list species with habitats in areas affected by operations
		GRI 305	Emissions	305-1	Direct (Scope 1) GHG emissions
				305-2	Energy indirect (Scope 2) GHG emissions
				305-3	Other indirect (Scope 3) GHG emissions
				305-4	GHG emissions intensity
				305-5	Reduction of GHG emissions
				305-6	Emissions of ozone-depleting substances (ODS)
				305-7	Nitrogen oxides (NOx), sulfur oxides (SOx), and other significant air emissions
		GRI 306	Waste	306-1	Waste generation and significant waste-related impacts
				306-2	Management of significant waste-related impacts
				306-3	Waste generated
				306-4	Waste diverted from disposal
				306-5	Wasted directed to disposal
		GRI 307	Environmental	307-1	Non-compliance with environmental laws and regulations
			Compliance		· · · · · · · · · · · · · · · · · · ·
		GRI 308	Supplier Environmental	308-1	New suppliers that were screened using environmental criteria
			Assessment	308-2	Negative environmental impacts in the supply chain and actions taken
ocial	Labor Practices	GRI 401	Employment	401-1	New employee hires and employee turnover
	and Decent			401-2	Benefits provided to full-time employees that are not provided to temporary or part-time employees
	Work			401-3	Parental leave
		GRI 402	Labor/Management	402-1	Minimum notice period regarding operational changes
			Relations		
		GRI 403	Occupational Health &	403-1	Occupational health and safety management system
			Safety	403-2	Hazard identification, risk assessment, and incident investigation
				403-3	Occupational health services
				403-4	Worker participation, consultation, and communication on occupational health and safety
				403-5	Worker training on occupational health and safety
				403-6	Promotion of worker health
				403-7	Prevention and mitigation of occupational health and safety impacts directly linked by business relationships
				403-8	Workers covered by an occupational health and safety management system
				403-9	Work-related injuries
				403-10	Work-related ill health
		GRI 404	Training and Education	404-1	Average hours of training er year per employee
		5 404		404-1	Programs for upgrading employee skills and translation assistance programs

		GRI 405	Diversity and Equal	405-1	Diversity and governance bodies and employees
			Opportunity	405-2	Ratio of basic salary and remuneration of women to men
Social	Human Rights	GRI 406	Non-Discrimination	406-1	Incidents of discrimination and corrective actions taken
Table	1 (continued	)			
		GRI 407	Freedom of Association and Collective Bargaining	407-1	Operations and suppliers in which the right to freedom of association and collective bargaining may be at risk
		GRI 408	Child Labor	408-1	Child Labor and suppliers at significant risk for incidents of child labor
		GRI 409	Forced or Compulsory Labor	409-1	Operations and suppliers at significant risk for incidents of forced or compulsory labor
		GRI 410	Security Practices	410-1	Security personnel trained in human rights policies and procedures
		GRI 411	Rights of Indigenous People	411-1	Incidents of violations involving rights of indigenous people
		GRI 412	Human Rights	412-1	Operations that have been subject to human rights reviews or impact assessments
			Assessment	412-2	Employee training on human rights policies or procedures
				412-3	Significant investment agreements and contracts that include human rights clauses or that underwent huma rights screening
Social	Society	GRI 413	Local Communities	413-1	Operations with local community engagement, impact assessments, and development programs
				413-2	Operations with significant actual and potential negative impacts on local communities
		GRI 414	Supplier Social	414-1	New suppliers that were screened using social criteria
			Assessment	414-2	Negative social impacts in the supply chain and actions taken
		GRI 415	Public Policy	415-1	Political contributions
Social	Product	GRI 416	Customer Health and	416-1	Assessment of the health and safety impacts of product and service categories
	Responsibility		Safety	416-2	Incidents of non-compliance concerning the health and safety impacts of products and services
		GRI 417	Marketing and Labeling	417-1	Requirements for product and service information and labeling
				417-2	Incidents of non-compliance concerning product and service information and labeling
				417-3	Incidents of non-compliance concerning marketing communications
		GRI 418	Customer Privacy	418-1	Substantiated complaints concerning breaches privacy and losses of customer data
		GRI 419	Socioeconomic Compliance	419-1	Non-compliance with laws and regulations in the social and economic area

Table 2 – Triangular Fuzzy Conversion Scale at  $\alpha = 0.5$  (Chang, 1996; Lee, 2010)

Linguistic Scale	Triangular Fuzzy Conversion Scale	Triangular Fuzzy Reciprocal Scale
Equally important	(1, 1, 1)	(1, 1, 1)
Weakly More important	(1, 3/2, 2)	(1/2, 2/3, 1)
Moderately More important	(3/2, 2, 5/2)	(2/5, 1/2, 2/3)
Strongly More important	(2, 5/2, 3)	(1/3, 2/5, 1/2)
Extremely More important	(5/2, 3, 7/2)	(2/7, 1/3, 2/5)

Table 3 – RI of 500,000 Random Matrices (Alonso & Lamata, 2006)

n	3	4	5	6	7	8	9	10	11	12
RI(n)	0.5245	0.8815	1.1086	1.2479	1.3417	1.4057	1.4499	1.4854	1.5140	1.5365

Table 4 –  $\lambda_{max}$  contingent on consistency ratio tolerance  $CR_{max}$  (Alonso & Lamata, 2006)

$\alpha \setminus n$	3	4	5	6	7	8	9	10	11	12
0.05	3.0479	4.1364	5.2249	6.3134	7.4019	8.4904	9.5789	10.6674	11.7559	12.8444
0.10	3.0958	4.2728	5.4498	6.6268	7.8038	8.9808	10.1578	11.3348	12.5118	13.6888
0.15	3.1438	4.4092	5.6747	6.9402	8.2057	9.4712	10.7367	12.0022	13.2676	14.5331
0.20	3.1917	4.5457	5.8996	7.2536	8.6076	9.9616	11.3156	12.6695	14.0235	15.3775

Table 5 – Pairwise Comparison Sets: Scopes and Quantity of Preference Sets collected in Cadeler A/S (own work)

Branch	Subcategorie s	# Sets	Total	Topics	# Sets	Total	Disclosures	# Sets	Total	Grand Total
Economic	n/a	n/a	n/a	21	3	63	17	1	17	80
Environmenta I	n/a	n/a	n/a	28	3	84	61	1	61	145

Social	6	4	24	n/a	n/a	n/a	n/a	n/a	n/a	24
LPDW	n/a	n/a	n/a	10	4	40	52	2	104	144
HR	n/a	n/a	n/a	21	3	63	3	1	3	66
SOC	n/a	n/a	n/a	3	3	9	2	1	2	11
PR	n/a	n/a	n/a	6	3	18	4	1	4	22
Total			24			277			191	492

GRI Topic	Extremely	Strongly	Moderatel	Weakly	Equally	Weakly	Moderatel	Strongly	Extremely	GRI Topic
-	More	More	y More	More		Less	y Less	Less	Less	-
/laterials							х			Energy
/laterials					х					Water & Effluents
/laterials					х					Biodiversity
/laterials							х			Emissions
/laterials						х				Waste
/laterials							х			Environmental Compliance
/laterials						V				Supplier Environmental
						Х				Assessment
nergy			х							Water & Effluents
nergy							х			Biodiversity
nergy					х					Emissions
nergy				х						Waste
nergy					х					Environmental Compliance
nergy										Supplier Environmental
						х				Assessment
Vater & Effluents						х				Biodiversity
Vater & Effluents							х			Emissions
Vater & Effluents						х				Waste
Vater & Effluents							х			Environmental Compliance
Vater & Effluents										Supplier Environmental
					х					Assessment
iodiversity							х			Emissions
iodiversity						х				Waste
iodiversity							х			Environmental Compliance
iodiversity										Supplier Environmental
					х					Assessment
missions				х						Waste
missions						х				Environmental Compliance
missions										Supplier Environmental
				Х						Assessment
Vaste							х			Environmental Compliance
Vaste										Supplier Environmental
				х						Assessment
nvironmental Compliance										Supplier Environmental
			х							Assessment

#### Table 6 – Illustrative Perspective on Environmental Topics

Table 7 – Illustrative Perspective on Environmental Disclosures within "Materials" (GRI 301)

GRI Disclosure	Extremely More	Strongly More	Moderatel y More	Weakly More	Equally	Weakly Less	Moderatel y Less	Strongly Less	Extremely Less	GRI Disclosure
Materials used by weight or volume	Wore	Wore	X	Wore		Less	y 1033	2033	Less	Recycled input material used
Materials used by weight or volume			х							Reclaimed products and their packaging materials
Recycled input material used					х					Reclaimed products and their packaging materials

Standard	Торіс	Disclosure	Local Weight	Global We	ight		
						CV 0.34 0.27 0.11 0.30 0.34 0.33 0.46	Disclosur
				Торіс	S.D.		e
GRI 201	Economic Performance	GRI 201-1	32.93%	18.46%	6.21%	0.34	6.08%
		GRI 201-2	39.47%				7.28%
		GRI 201-3	12.04%				2.22%
		GRI 201-4	15.56%				2.87%
GRI 202	Market Presence	GRI 202-1	50.00%	10.54%	2.86%	0.27	5.27%
		GRI 202-2	50.00%				5.27%
GRI 203	Indirect Economic Impacts	GRI 203-1	50.00%	12.64%	1.39%	0.11	6.32%
		GRI 203-2	50.00%				6.32%
GRI 204	Procurement Practices	GRI 204-1	100.00%	12.33%	3.76%	0.30	12.33%
GRI 205	Anti-Corruption	GRI 205-1	32.30%	16.82%	5.78%	0.34	5.43%
		GRI 205-2	18.16%				3.05%
		GRI 205-3	49.54%				8.33%
GRI 206	Anti-Corruptive Behavior	GRI 206-1	100.00%	16.29%	5.37%	0.33	16.29%
GRI 207	Тах	GRI 207-1	33.87%	12.93%	5.95%	0.46	4.38%
		GRI 207-2	33.87%				4.38%
		GRI 207-3	21.17%				2.74%
		GRI 207-4	11.09%				1.43%

#### Table 8 – Overall Results of the Economic Category

Table 9 – Overall Results of the Environmental Category

Standard	Торіс	Disclosure	Local Weight	Global We	ight		
				Торіс	S.D.	CV	Disclosur e
GRI 301	Materials	GRI 301-1	49.06%	8.03%	2.51%	0.31	3.94%
		GRI 301-2	25.47%				2.05%
		GRI 301-3	25.47%				2.05%
GRI 302	Energy	GRI 302-1	22.65%	15.36%	1.18%	0.08	3.48%
		GRI 302-2	10.28%				1.58%
		GRI 302-3	28.09%				4.32%
		GRI 302-4	24.29%				3.73%
		GRI 302-5	14.68%				2.26%
GRI 303	Water & Effluents	GRI 303-1	15.42%	10.50%	1.65%	0.16	1.62%
		GRI 303-2	28.02%				2.94%
		GRI 303-3	16.44%				1.73%
		GRI 303-4	25.55%				2.68%
		GRI 303-5	14.56%				1.53%
GRI 304	Biodiversity	GRI 304-1	12.59%	8.22%	2.56%	0.31	1.04%
		GRI 304-2	36.03%				2.96%
		GRI 304-3	26.44%				2.17%
		GRI 304-4	24.93%				2.05%
GRI 305	Emissions	GRI 305-1	16.54%	14.87%	1.72%	0.12	2.46%
		GRI 305-2	8.24%				1.22%
		GRI 305-3	11.73%				1.74%
		GRI 305-4	21.95%				3.26%
		GRI 305-5	17.26%				2.57%
		GRI 305-6	12.15%				1.81%
		GRI 305-7	12.15%				1.81%
GRI 306	Waste	GRI 306-1	14.14%	11.82%	1.22%	0.10	1.67%
		GRI 306-2	16.62%				1.97%
		GRI 306-3	25.42%				3.01%
		GRI 306-4	25.42%				3.01%
		GRI 306-5	18.40%				2.17%
GRI 307	Environmental Compliance	GRI 307-1	100.00%	22.87%	4.30%	0.19	22.87%
GRI 308	Supplier Environmental	GRI 308-1	50.00%	8.32%	1.99%	0.24	4.16%
	Assessment	GRI 308-2	50.00%				4.16%

Subcategory	Standard	Торіс	Disclosure	Local Weight		Global Weight						
		-		Торіс	Disclosure	Subcategory	S.D.	cv	Торіс	S.D.	cv	Disclosure
Labor	GRI 401	Employment	GRI 401-1	23.33%	46.64%	30.37%	13.79%	0.45	7.08%	2.76%	0.39	3.30%
Practices and			GRI 401-2		26.86%							1.90%
Decent Work			GRI 401-3		26.50%							1.88%
	GRI 402	Labor/ Management Relations	GRI 402-1	14.09%	100.00%	1			4.28%	1.89%	0.44	4.28%
	GRI 403	Occupational Health & Safety	GRI 403-1	27.75%	8.34%				8.43%	5.27%	0.63	0.70%
			GRI 403-2		11.28%							0.95%
			GRI 403-3		7.19%							0.61%
			GRI 403-4		8.22%							0.69%
			GRI 403-5		10.83%							0.91%
			GRI 403-6		7.13%							0.60%
			GRI 403-7		11.31%							0.95%
			GRI 403-8		8.10%							0.68%
			GRI 403-9		14.00%							1.18%
			GRI 403-10		13.60%							1.15%
	GRI 404	Training and Education	GRI 404-1	17.56%	36.10%				5.33%	1.84%	0.34	1.93%
			GRI 404-2		31.83%							1.70%
		_	GRI 404-3		32.07%							1.71%
	GRI 405	Diversity and Equal Opportunity	GRI 405-1	17.28%					5.25%	2.03%	0.39	2.44%
			GRI 405-2		53.57%							2.81%
Human Rights <u>G</u>	GRI 406	Non-Discrimination	GRI 406-1	15.10%	100.00%	31.32%	9.13%	0.29	4.73%	1.68%	0.35	4.73%
	GRI 407	Freedom of Association and Collective Bargaining	GRI 407-1	9.21%	100.00%				2.88%	0.36%	0.12	2.88%
	GRI 408	Child Labor	GRI 408-1	20.65%	100.00%	1			6.47%	3.42%	0.53	6.47%
	GRI 409	Forced or Compulsory Labor	GRI 409-1	18.77%	100.00%				5.88%	3.15%	0.54	5.88%
	GRI 410	Security Practices	GRI 410-1	12.67%	100.00%	I			3.97%	1.05%	0.26	3.97%
	GRI 411	Rights of Indigenous People	GRI 411-1	11.31%	100.00%	1			3.54%	1.25%	0.35	3.54%
	GRI 412	Human Rights Assessment	GRI 412-1	12.30%	29.33%	1			3.85%	1.50%	0.39	1.13%
		c c	GRI 412-2		29.33%							1.13%
			GRI 412-3		41.35%							1.59%
Society	GRI 413	Local Communities	GRI 413-1	30.14%	41.67%	20.74%	3.98%	0.19	6.25%	1.97%	0.32	2.60%
-			GRI 413-2		58.33%							3.65%
	GRI 414	Supplier Social Assessment	GRI 414-1	34.77%	34.29%	1			7.21%	1.25%	0.17	2.47%
			GRI 414-2		65.71%							4.74%
	GRI 415	Public Policy	GRI 415-1	35.09%	100.00%	1			7.28%	1.50%	0.21	7.28%
Product	GRI 416	Customer Health and Safety	GRI 416-1	43.35%			3.31%	0.19	7.62%	2.93%	0.38	2.22%
Responsibility		·····,	GRI 416-2		70.83%							5.40%
	GRI 417	Marketing and Labeling	GRI 417-1	20.35%					3.58%	0.13%	0.04	0.61%
			GRI 417-2		41.46%							1.48%
			GRI 417-3		41.46%							1.48%
	GRI 418	Customer Privacy	GRI 418-1	17.23%					3.03%	0.62%	0.20	3.03%
	GRI 419	Socioeconomic Compliance	GRI 419-1	19.08%					3.35%	0.12%	0.04	3.35%

#### Table 10 – Overall Results on the Social Category

GRI Topic	Direct Competitors ( $n = 6$ )	<b>OEMs (</b> $n = 3$ <b>)</b>	Windfarm Developers ( $n = 10$ )	Stakeholder Audience ( $n = 19$ )
GRI 201	0	0	18	18
GRI 202	0	0	4	4
GRI 203	0	0	6	6
GRI 204	0	1	7	8
GRI 205	6	2	12	20
GRI 206	6	2	11	19
GRI 207	1	0	4	55555555
r				
	0.5268	0.3482	0.8125	0.7500
T stat	1.3858	0.8306	3.1165	2.5355
p-value	0.2244	0.4440	0.0264	0.0522

Table 11 – Recurring Economic Topics in Stakeholder Groups

Table 12 – Recurring Environmental Topics in Stakeholder Groups

GRI Topic	Direct Competitors ( $n = 6$ )	<b>OEMs (</b> $n = 3$ <b>)</b>	Windfarm Developers ( $n = 10$ )	Stakeholder Audience ( $n = 19$ )
GRI 301	5	3	15	23
GRI 302	14	2	40	56
GRI 303	7	3	20	30
GRI 304	6	2	21	29
GRI 305	15	6	43	64
GRI 306	6	4	23	33
GRI 307	11	3	19	33
GRI 308	5	5	31	41
r				
	0.8095	0.0893	0.3571	0.6845
T stat	3.3776	0.2196	0.9366	2.3001
p-value	0.0149	0.8335	0.3851	0.0611

Table 12 – Recurring Social Topics in Stakeholder Groups

GRI Topic	Direct Competitors ( $n = 6$ )	<b>OEMs (</b> $n = 3$ <b>)</b>	Windfarm Developers ( $n = 10$ )	Stakeholder Audience ( $n = 19$ )
GRI 401	3	2	16	21
GRI 402	2	2	10	
GRI 403	11	4	44	59
GRI 404	4	0	20	24
GRI 405	6	2	17	25
GRI 406	7	1	15	23
GRI 407	5	1	8	14
GRI 408	4	1	9	14
GRI 409	3	1	9	13
GRI 410	3	1	8	12
GRI 411	3	1	8	12
GRI 412	4	1	10	15
GRI 413	2	3	11	16
GRI 414	4	2	11	17
GRI 415	1	0	3	4
GRI 416	1	1	8	10
GRI 417	0	0	4	4
GRI 418	0	0	4	4
GRI 419	0	0	4	4
r <sub>s</sub>				
	0.2193	0.4763	0.4382	0.3873
T stat	0.9267	2.2335	2.0098	1.7320
p-value	0.3670	0.0392	0.0606	0.1014

Rank	<b>GRI Topic</b>	SDG	SDG Targets	
1	GRI 201	13, 8, 9	13.1, 8.1, 8.2, 9.4, 9.5	
2	GRI 205	16	16.5	
3	GRI 206	16	16.3	
4	GRI 207	17, 10, 1	17.1, 17.3, 10.4, 1.3, 1.1	
5	GRI 203	9, 8, 5, 3, 1	9.1, 9.4, 8.2, 8.3, 8.4, 8.5, 5.4, 1.4	
6	GRI 204	8	8.3	
7	GRI 202	8, 5, 1	8.5, 5.1, 1.2	

Table 14 – Corresponding SDGs and SDG Targets for Material Economic Topics (based on GRI, 2020b)

Table 15 – Corresponding SDGs and SDG Targets for Material Environmental Topics (based on GRI, 2020b)

Rank	<b>GRI Topic</b>	SDG	SDG Targets
1	GRI 307	16 (12)	16.3 (12.4)
2	GRI 302	7, 8, 12, 13	7.2, 7.3, 8.4, 12.2, 13.1
3	GRI 305	15, 14, 13, 12, 3	15.2, 14.3, 13.1, 12.4, 3.9
4	GRI 306	12, 11, 3, 6	12.4, 12.5, 11.6, 3.9, 6.3
5	GRI 303	6, 7, 12	6.3, 6.4, 6.A, 6.B, 7.2, 12.4
6	GRI 308	n/a	n/a
7	GRI 304	6, 14, 15	6.6, 14.2, 15.1, 15.5
8	GRI 301	8, 12	8.4, 12.2, 12.5

Table 16 – Corresponding SDGs and SDG Targets for Material Social Topics (based on GRI, 2020b)

Rank	GRI Topic	SDG	SDG Targets
1	GRI 403	8, 16, 3	8.8, 16.1, 16.7, 3.3, 3.4, 3.5, 3.6, 3.7, 3.8, 3.9
2	GRI 416	16 (8)	16.3, (8.8)
3	GRI 415	16	16.5
4	GRI 414	5, 8, 16	5.2, 8.8, 16.1
5	GRI 401	5, 8, 10, 3	5.1, 5.4, 8.5, 8.6, 10.3, 3.2
6	GRI 408	8, 16	8.7, 16.2
7	GRI 413	1, 2	1.4, 2.3
8	GRI 409	8	8.7
9	GRI 404	4, 5, 8, 10	4.3, 4.4, 4.5, 5.1, 8.2, 8.5, (8.6), 10.3
10	GRI 405	5, 8, 10	5.1, 5.8, 8.5, 10.3
11	GRI 406	5, 8	5.1, 8.8
12	GRI 402	8	8.8
13	GRI 410	16	16.1
14	GRI 412	n/a	n/a
15	GRI 417	16, 12	16.3, 12.8
16	GRI 411	2	2.3
17	GRI 419	16	16.3
18	GRI 418	16	16.1, 16.3
19	GRI 407	8	8.8

Table 17 – Sensitivity Analysis on Economic Topics (Global Weights)

	$\lambda = 0$						ĵ	\ = 0.5							$\lambda = 1$						
	$\alpha = 0$ $\alpha$	a = 0.2 a	$\alpha = 0.4 \alpha$	$\alpha = 0.5 \alpha$	$\alpha = 0.6 \alpha$	$\alpha = 0.8$	α = 1	$\alpha = 0$ $\alpha$	$\alpha = 0.2 \alpha$	$\alpha = 0.4 \alpha$	$\alpha = 0.5 \alpha$	α = 0.6 α	$\alpha = 0.8$	α = 1	$\alpha = 0$ $\alpha$	$\alpha = 0.2 \alpha$	$\alpha = 0.4 \alpha$	$\alpha = 0.5 \alpha$	$\alpha = 0.6 \alpha$	$\alpha = 0.8$	α = 1
GRI 201	18.69%	18.77%	18.82%	18.83%	18.83%	18.84%	18.90%	18.69%	18.65%	18.54%	18.46%	18.36%	18.12%	17.86%	18.69%	18.56%	18.38%	18.27%	18.15%	17.89%	17.63%
GRI 202	10.20%	10.22%	10.33%	10.43%	10.55%	10.91%	11.45%	10.20%	10.25%	10.41%	10.54%	10.71%	11.20%	12.01%	10.20%	10.27%	10.46%	10.60%	10.78%	11.29%	12.13%
GRI 203	12.56%	12.51%	12.47%	12.45%	12.45%	12.45%	12.51%	12.56%	12.57%	12.61%	12.64%	12.67%	12.76%	12.87%	12.56%	12.62%	12.69%	12.73%	12.77%	12.85%	12.95%
GRI 204	12.35%	12.28%	12.18%	12.11%	12.03%	11.83%	11.51%	12.35%	12.35%	12.34%	12.33%	12.31%	12.27%	12.17%	12.35%	12.40%	12.43%	12.43%	12.43%	12.40%	12.32%
GRI 205	16.88%	16.80%	16.68%	16.61%	16.53%	16.32%	16.02%	16.88%	16.88%	16.85%	16.82%	16.79%	16.67%	16.46%	16.88%	16.93%	16.94%	16.93%	16.90%	16.79%	16.55%
GRI 206	16.28%	16.18%	16.06%	15.98%	15.91%	15.72%	15.48%	16.28%	16.28%	16.29%	16.29%	16.28%	16.24%	16.11%	16.28%	16.36%	16.42%	16.44%	16.44%	16.40%	16.25%
GRI 207	13.03%	13.24%	13.46%	13.58%	13.70%	13.93%	14.13%	13.03%	13.02%	12.97%	12.93%	12.88%	12.75%	12.52%	13.03%	12.85%	12.69%	12.61%	12.53%	12.37%	12.17%

Table 18 – Sensitivity Analysis on Economic Disclosures (Global Weights)

	$\lambda = 0$																				
							î	$\lambda = 0.5$							$\lambda = 1$						
	$\alpha = 0$ c	x = 0.2  o	a = 0.4 c	x = 0.5 c	x = 0.6 c	x = 0.8	$\alpha = 1$	$\alpha = 0$	x = 0.2 0	x = 0.4 c	x = 0.5 c	x = 0.6 c	a = 0.8	$\alpha = 1$	$\alpha = 0$	$\alpha = 0.2 \alpha$	x = 0.4	x = 0.5 c	x = 0.6 c	x = 0.8	$\alpha = 1$
GRI 201-1	6.19%	6.25%	6.28%	6.30%	6.31%	6.34%	6.39%	6.19%	6.17%	6.12%	6.08%	6.03%	5.90%	5.72%	6.19%	6.12%	6.02%	5.96%	5.89%	5.73%	5.54%
GRI 201-2	7.52%	7.63%	7.70%	7.72%	7.73%	7.72%	7.68%	7.52%	7.48%	7.37%	7.28%	7.18%	6.92%	6.58%	7.52%	7.36%	7.15%	7.04%	6.90%	6.61%	6.26%
GRI 201-3	2.12%	2.10%	2.11%	2.12%	2.14%	2.21%	2.33%	2.12%	2.14%	2.18%	2.22%	2.27%	2.42%	2.66%	2.12%	2.17%	2.24%	2.29%	2.35%	2.51%	2.79%
GRI 201-4	2.86%	2.79%	2.72%	2.68%	2.64%	2.56%	2.49%	2.86%	2.86%	2.87%	2.87%	2.88%	2.89%	2.89%	2.86%	2.92%	2.97%	2.99%	3.01%	3.04%	3.05%
GRI 202-1	5.10%	5.11%	5.17%	5.21%	5.28%	5.45%	5.72%	5.10%	5.12%	5.21%	5.27%	5.35%	5.60%	6.00%	5.10%	5.14%	5.23%	5.30%	5.39%	5.65%	6.06%
GRI 202-2	5.10%	5.11%	5.17%	5.21%	5.28%	5.45%	5.72%	5.10%	5.12%	5.21%	5.27%	5.35%	5.60%	6.00%	5.10%	5.14%	5.23%	5.30%	5.39%	5.65%	6.06%
GRI 203-1	6.28%	6.25%	6.23%	6.23%	6.22%	6.23%	6.25%	6.28%	6.29%	6.30%	6.32%	6.34%	6.38%	6.43%	6.28%	6.31%	6.35%	6.36%	6.38%	6.43%	6.47%
GRI 203-2	6.28%	6.25%	6.23%	6.23%	6.22%	6.23%	6.25%	6.28%	6.29%	6.30%	6.32%	6.34%	6.38%	6.43%	6.28%	6.31%	6.35%	6.36%	6.38%	6.43%	6.47%
GRI 204-1	12.35%	12.28%	12.18%	12.11%	12.03%	11.83%	11.51%	12.35%	12.35%	12.34%	12.33%	12.31%	12.27%	12.17%	12.35%	12.40%	12.43%	12.43%	12.43%	12.40%	12.32%
GRI 205-1	5.42%	5.33%	5.22%	5.17%	5.11%	4.99%	4.87%	5.42%	5.42%	5.43%	5.43%	5.43%	5.43%	5.39%	5.42%	5.51%	5.57%	5.60%	5.62%	5.63%	5.59%
GRI 205-2	2.94%	2.90%	2.88%	2.88%	2.89%	2.92%	2.99%	2.94%	2.96%	3.01%	3.05%	3.10%	3.23%	3.39%	2.94%	3.01%	3.11%	3.17%	3.23%	3.38%	3.55%
GRI 205-3	8.52%	8.58%	8.58%	8.56%	8.53%	8.40%	8.17%	8.52%	8.49%	8.40%	8.33%	8.25%	8.01%	7.67%	8.52%	8.41%	8.26%	8.16%	8.05%	7.77%	7.41%
GRI 206-1	16.28%	16.18%	16.06%	15.98%	15.91%	15.72%	15.48%	16.28%	16.28%	16.29%	16.29%	16.28%	16.24%	16.11%	16.28%	16.36%	16.42%	16.44%	16.44%	16.40%	16.25%
GRI 207-1	4.45%	4.54%	4.63%	4.68%	4.72%	4.80%	4.85%	4.45%	4.44%	4.41%	4.38%	4.35%	4.26%	4.13%	4.45%	4.36%	4.27%	4.22%	4.18%	4.07%	3.94%
GRI 207-2	4.45%	4.54%	4.63%	4.68%	4.72%	4.80%	4.85%	4.45%	4.44%	4.41%	4.38%	4.35%	4.26%	4.13%	4.45%	4.36%	4.27%	4.22%	4.18%	4.07%	3.94%
GRI 207-3	2.73%	2.74%	2.76%	2.77%	2.78%	2.81%	2.83%	2.73%	2.73%	2.74%	2.74%	2.74%	2.73%	2.72%	2.73%	2.73%	2.73%	2.73%	2.73%	2.74%	2.73%
GRI 207-4	1.40%	1.41%	1.44%	1.46%	1.48%	1.53%	1.60%	1.40%	1.40%	1.42%	1.43%	1.45%	1.49%	1.54%	1.40%	1.40%	1.42%	1.43%	1.45%	1.49%	1.55%

Table – 19 Sensitivity Analysis on Environmental Topics (Global Weights)

	$\lambda = 0$						i	$\lambda = 0.5$							$\lambda = 1$						
	$\alpha = 0$ $\alpha$	$\alpha = 0.2$	$\alpha = 0.4$	$\alpha = 0.5$	$\alpha = 0.6$	$\alpha = 0.8$	α = 1	$\alpha = 0$	$\alpha = 0.2$	$\alpha = 0.4 \alpha$	$\alpha = 0.5 \alpha$	$\alpha = 0.6 \alpha$	$\alpha = 0.8$	$\alpha = 1$	$\alpha = 0$	$\alpha = 0.2$	$\alpha = 0.4$	$\alpha = 0.5 \alpha$	$\alpha = 0.6 \alpha$	$\alpha = 0.8$	α = 1
GRI 301	7.84%	7.85%	7.93%	7.99%	8.08%	8.31%	8.68%	7.84%	7.87%	7.96%	8.03%	8.13%	8.39%	8.78%	7.84%	7.88%	7.98%	8.06%	8.15%	8.41%	8.81%
GRI 302	15.45%	15.37%	15.25%	15.18%	15.10%	14.92%	14.75%	15.45%	15.43%	15.39%	15.36%	15.32%	15.20%	15.01%	15.45%	15.49%	15.48%	15.46%	15.42%	15.29%	15.08%
GRI 303	10.42%	10.50%	10.62%	10.69%	10.79%	11.02%	11.36%	10.42%	10.44%	10.47%	10.50%	10.54%	10.65%	10.83%	10.42%	10.39%	10.39%	10.40%	10.43%	10.52%	10.69%
GRI 304	7.90%	7.90%	7.99%	8.07%	8.17%	8.47%	8.90%	7.90%	7.95%	8.10%	8.22%	8.37%	8.78%	9.39%	7.90%	7.99%	8.17%	8.30%	8.46%	8.89%	9.52%
GRI 305	15.02%	14.96%	14.84%	14.76%	14.66%	14.41%	14.09%	15.02%	15.00%	14.92%	14.87%	14.79%	14.59%	14.28%	15.02%	15.03%	14.98%	14.92%	14.86%	14.65%	14.33%
GRI 306	11.85%	11.69%	11.49%	11.37%	11.22%	10.83%	10.24%	11.85%	11.84%	11.83%	11.82%	11.81%	11.75%	11.62%	11.85%	11.96%	12.04%	12.07%	12.08%	12.07%	11.98%
GRI 307	23.47%	23.66%	23.72%	23.70%	23.64%	23.41%	22.98%	23.47%	23.38%	23.09%	22.87%	22.60%	21.87%	20.83%	23.47%	23.16%	22.71%	22.43%	22.11%	21.32%	20.28%
GRI 308	8.05%	8.06%	8.16%	8.24%	8.34%	8.61%	9.00%	8.05%	8.09%	8.22%	8.32%	8.44%	8.78%	9.25%	8.05%	8.11%	8.26%	8.36%	8.49%	8.84%	9.32%

Table 20 – Sensitivity Analysis on Environmental Disclosures (Global Weights)

	$\lambda = 0$						:	$\lambda = 0.5$							$\lambda = 1$						
	$\alpha = 0$ o	a = 0.2 c	$\alpha = 0.4  o$	α = 0.5 α	= 0.6 a	a = 0.8	α = 1	$\alpha = 0$ $\alpha$	x = 0.2  a	x = 0.4 a	α = 0.5 α	= 0.6 0	a = 0.8	α = 1	$\alpha = 0$ o	$\alpha = 0.2 \alpha$	x = 0.4 c	a = 0.5 o	a = 0.6 a	α = 0.8	<b>α</b> = 1
GRI 301-1	3.92%	3.94%	3.96%	3.97%	3.99%	4.02%	4.06%	3.92%	3.92%	3.93%	3.94%	3.95%	3.98%	4.03%	3.92%	3.91%	3.91%	3.91%	3.92%	3.95%	4.00%
GRI 301-2	1.96%	1.96%	1.99%	2.01%	2.04%	2.14%	2.31%	1.96%	1.97%	2.01%	2.05%	2.09%	2.20%	2.37%	1.96%	1.98%	2.04%	2.07%	2.12%	2.23%	2.40%
GRI 301-3	1.96%	1.96%	1.99%	2.01%	2.04%	2.14%	2.31%	1.96%	1.97%	2.01%	2.05%	2.09%	2.20%	2.37%	1.96%	1.98%	2.04%	2.07%	2.12%	2.23%	2.40%
GRI 302-1	3.51%	3.50%	3.49%	3.48%	3.48%	3.47%	3.47%	3.51%	3.50%	3.49%	3.48%	3.47%	3.42%	3.36%	3.51%	3.50%	3.49%	3.48%	3.46%	3.41%	3.33%
GRI 302-2	1.51%	1.50%	1.51%	1.52%	1.53%	1.58%	1.66%	1.51%	1.52%	1.55%	1.58%	1.61%	1.70%	1.84%	1.51%	1.54%	1.58%	1.61%	1.65%	1.75%	1.89%
GRI 302-3	4.47%	4.45%	4.37%	4.31%	4.24%	4.04%	3.77%	4.47%	4.45%	4.37%	4.32%	4.24%	4.05%	3.79%	4.47%	4.45%	4.37%	4.32%	4.25%	4.06%	3.79%
GRI 302-4	3.77%	3.78%	3.80%	3.80%	3.81%	3.83%	3.86%	3.77%	3.76%	3.75%	3.73%	3.71%	3.66%	3.57%	3.77%	3.75%	3.72%	3.69%	3.67%	3.60%	3.50%
GRI 302-5	2.19%	2.14%	2.08%	2.06%	2.04%	2.01%	1.99%	2.19%	2.20%	2.23%	2.26%	2.28%	2.36%	2.45%	2.19%	2.25%	2.32%	2.36%	2.40%	2.48%	2.57%
GRI 303-1	1.57%	1.62%	1.69%	1.75%	1.81%	1.96%	2.19%	1.57%	1.58%	1.60%	1.62%	1.64%	1.71%	1.82%	1.57%	1.55%	1.54%	1.55%	1.57%	1.63%	1.73%
GRI 303-2	3.01%	3.02%	3.00%	2.98%	2.95%	2.87%	2.73%	3.01%	3.00%	2.97%	2.94%	2.91%	2.82%	2.70%	3.01%	2.99%	2.95%	2.92%	2.89%	2.81%	2.69%
GRI 303-3	1.70%	1.70%	1.72%	1.74%	1.76%	1.82%	1.91%	1.70%	1.70%	1.72%	1.73%	1.74%	1.77%	1.80%	1.70%	1.70%	1.71%	1.72%	1.73%	1.75%	1.78%
GRI 303-4	2.70%	2.70%	2.69%	2.68%	2.68%	2.66%	2.63%	2.70%	2.70%	2.69%	2.68%	2.68%	2.65%	2.62%	2.70%	2.70%	2.69%	2.68%	2.67%	2.65%	2.62%
GRI 303-5	1.44%	1.46%	1.51%	1.55%	1.59%	1.72%	1.91%	1.44%	1.46%	1.50%	1.53%	1.57%	1.69%	1.88%	1.44%	1.45%	1.49%	1.52%	1.56%	1.68%	1.87%
GRI 304-1	0.96%	0.95%	0.97%	0.98%	1.00%	1.07%	1.17%	0.96%	0.97%	1.01%	1.04%	1.07%	1.17%	1.33%	0.96%	0.98%	1.03%	1.07%	1.11%	1.22%	1.38%
GRI 304-2	2.92%	2.92%	2.93%	2.94%	2.95%	2.97%	2.99%	2.92%	2.92%	2.95%	2.96%	2.98%	3.04%	3.12%	2.92%	2.93%	2.95%	2.97%	2.99%	3.06%	3.15%
GRI 304-3	2.08%	2.09%	2.13%	2.16%	2.20%	2.31%	2.47%	2.08%	2.10%	2.14%	2.17%	2.22%	2.33%	2.49%	2.08%	2.10%	2.15%	2.18%	2.22%	2.33%	2.48%
GRI 304-4	1.94%	1.94%	1.96%	1.99%	2.02%	2.12%	2.28%	1.94%	1.96%	2.01%	2.05%	2.10%	2.24%	2.46%	1.94%	1.98%	2.04%	2.09%	2.14%	2.29%	2.52%
GRI 305-1	2.49%	2.52%	2.54%	2.55%	2.56%	2.59%	2.61%	2.49%	2.49%	2.47%	2.46%	2.44%	2.39%	2.31%	2.49%	2.46%	2.43%	2.41%	2.39%	2.33%	2.24%
GRI 305-2	1.15%	1.13%	1.12%	1.12%	1.13%	1.15%	1.19%	1.15%	1.16%	1.20%	1.22%	1.26%	1.36%	1.51%	1.15%	1.19%	1.24%	1.28%	1.32%	1.43%	1.59%
GRI 305-3	1.72%	1.72%	1.73%	1.73%	1.74%	1.76%	1.79%	1.72%	1.73%	1.74%	1.74%	1.75%	1.78%	1.82%	1.72%	1.73%	1.74%	1.75%	1.76%	1.79%	1.83%
GRI 305-4	3.40%	3.37%	3.29%	3.23%	3.16%	2.97%	2.72%	3.40%	3.38%	3.31%	3.26%	3.20%	3.03%	2.79%	3.40%	3.39%	3.33%	3.28%	3.22%	3.05%	2.80%
GRI 305-5	2.63%	2.55%	2.43%	2.36%	2.28%	2.08%	1.83%	2.63%	2.62%	2.59%	2.57%	2.54%	2.45%	2.33%	2.63%	2.67%	2.68%	2.67%	2.65%	2.58%	2.45%
GRI 305-6	1.81%	1.84%	1.86%	1.88%	1.89%	1.93%	1.98%	1.81%	1.81%	1.81%	1.81%	1.80%	1.79%	1.77%	1.81%	1.79%	1.78%	1.77%	1.76%	1.74%	1.72%
<u>GRI 305-7</u>	1.81%	1.84%	1.86%	1.88%	1.89%	1.93%	1.98%	1.81%	1.81%	1.81%	1.81%	1.80%	1.79%	1.77%	1.81%	1.79%	1.78%	1.77%	1.76%	1.74%	1.72%
GRI 306-1	1.62%	1.61%	1.61%	1.62%	1.63%	1.64%	1.65%	1.62%	1.63%	1.65%	1.67%	1.70%	1.76%	1.84%	1.62%	1.64%	1.67%	1.70%	1.73%	1.80%	1.89%
GRI 306-2	1.91%	1.92%	1.95%	1.96%	1.98%	2.02%	2.05%	1.91%	1.92%	1.95%	1.97%	1.99%	2.06%	2.16%	1.91%	1.92%	1.94%	1.96%	1.99%	2.06%	2.18%
GRI 306-3	3.09%	3.04%	2.94%	2.88%	2.81%	2.61%	2.33%	3.09%	3.08%	3.04%	3.01%	2.96%	2.85%	2.66%	3.09%	3.11%	3.10%	3.07%	3.04%	2.93%	2.75%
GRI 306-4	3.09%	3.04%	2.94%	2.88%	2.81%	2.61%	2.33%	3.09%	3.08%	3.04%	3.01%	2.96%	2.85%	2.66%	3.09%	3.11%	3.10%	3.07%	3.04%	2.93%	2.75%
<u>GRI 306-5</u>	2.13%	2.09%	2.05%	2.03%	2.00%	1.95%	1.88%	2.13%	2.14%	2.16%	2.17%	2.19%	2.24%	2.30%	2.13%	2.18%	2.23%	2.26%	2.29%	2.35%	2.42%

GRI 307-1	23.47%	23.66%	23.72%	23.70%	23.64%	23.41%	22.98%	23.47%	23.38%	23.09%	22.87%	22.60%	21.87%	20.83%	23.47%	23.16%	22.71%	22.43%	22.11%	21.32%	20.28%
GRI 308-1	4.02%	4.03%	4.08%	4.12%	4.17%	4.31%	4.50%	4.02%	4.05%	4.11%	4.16%	4.22%	4.39%	4.63%	4.02%	4.06%	4.13%	4.18%	4.25%	4.42%	4.66%
GRI 308-2	4.02%	4.03%	4.08%	4.12%	4.17%	4.31%	4.50%	4.02%	4.05%	4.11%	4.16%	4.22%	4.39%	4.63%	4.02%	4.06%	4.13%	4.18%	4.25%	4.42%	4.66%

Table 21 – Sensitivity Analysis on Social Subcategories (Global Weights)

	$\lambda = 0$														$\lambda = 1$						
	$\alpha = 0$ $\alpha$	$\alpha = 0.2 \alpha$	$\alpha = 0.4$	$\alpha = 0.5 \alpha$	α = 0.6 α	$\alpha = 0.8$	$\alpha = 1$	$\alpha = 0$ a	$\alpha = 0.2 \alpha$	$\alpha = 0.4  c$	$\alpha = 0.5 \alpha$	$\alpha = 0.6 \alpha$	$\alpha = 0.8$	α = 1	$\alpha = 0$ a	$\alpha = 0.2 \alpha$	$\alpha = 0.4$	$\alpha = 0.5 \alpha$	$\alpha = 0.6 \alpha$	$\alpha = 0.8$	$\alpha = 1$
LPDW	30.92%	30.76%	30.40%	30.13%	29.79%	28.90%	27.64%	30.92%	30.83%	30.57%	30.37%	30.13%	29.49%	28.65%	30.92%	30.89%	30.69%	30.52%	30.31%	29.76%	29.00%
HR	31.40%	31.52%	31.64%	31.70%	31.77%	31.95%	32.26%	31.40%	31.39%	31.35%	31.32%	31.28%	31.22%	31.22%	31.40%	31.28%	31.15%	31.08%	31.02%	30.90%	30.86%
SOC	20.42%	20.41%	20.51%	20.59%	20.71%	21.02%	21.45%	20.42%	20.47%	20.63%	20.74%	20.88%	21.23%	21.67%	20.42%	20.52%	20.71%	20.83%	20.98%	21.33%	21.75%
PR	17.25%	17.30%	17.46%	17.58%	17.73%	18.13%	18.66%	17.25%	17.30%	17.46%	17.57%	17.71%	18.05%	18.46%	17.25%	17.31%	17.46%	17.57%	17.70%	18.01%	18.39%

Table 22 – Sensitivity Analysis on Social Topics (Global Weights)

	$\lambda = 0$						i	$\lambda = 0.5$							$\lambda = 1$						
	$\alpha = 0$ $\alpha$	= 0.2 a	a = 0.4 a	a = 0.5 a	= 0.6 a	= 0.8	α = 1	$\alpha = 0$ $\alpha$	a = 0.2 a	a = 0.4 a	a = 0.5 a	= 0.6 a	= 0.8	$\alpha = 1$	$\alpha = 0$ $\alpha$	α = 0.2 α	a = 0.4 o	α = 0.5 α	a = 0.6 a	a = 0.8	$\alpha = 1$
LPDW																					
GRI 401	7.28%	7.26%	7.18%	7.11%	7.03%	6.81%	6.51%	7.28%	7.25%	7.15%	7.08%	7.00%	6.78%	6.48%	7.28%	7.24%	7.14%	7.07%	6.98%	6.76%	6.48%
GRI 402	4.24%	4.22%	4.20%	4.19%	4.17%	4.15%	4.13%	4.24%	4.25%	4.26%	4.28%	4.30%	4.36%	4.47%	4.24%	4.27%	4.31%	4.33%	4.36%	4.45%	4.58%
GRI 403	8.62%	8.58%	8.48%	8.40%	8.30%	8.03%	7.65%	8.62%	8.59%	8.50%	8.43%	8.34%	8.11%	7.78%	8.62%	8.60%	8.51%	8.45%	8.36%	8.14%	7.83%
GRI 404	5.43%	5.39%	5.30%	5.24%	5.16%	4.96%	4.66%	5.43%	5.42%	5.37%	5.33%	5.29%	5.17%	5.01%	5.43%	5.44%	5.41%	5.39%	5.36%	5.26%	5.13%
GRI 405	5.35%	5.31%	5.24%	5.19%	5.12%	4.94%	4.68%	5.35%	5.33%	5.28%	5.25%	5.20%	5.08%	4.90%	5.35%	5.34%	5.31%	5.28%	5.25%	5.14%	4.98%
HR																					
GRI 406	4.76%	4.79%	4.81%	4.83%	4.84%	4.88%	4.95%	4.76%	4.76%	4.74%	4.73%	4.72%	4.68%	4.64%	4.76%	4.73%	4.69%	4.67%	4.65%	4.59%	4.53%
GRI 407	2.82%	2.85%	2.90%	2.93%	2.97%	3.07%	3.22%	2.82%	2.83%	2.86%	2.88%	2.91%	3.00%	3.16%	2.82%	2.82%	2.84%	2.86%	2.88%	2.97%	3.14%
GRI 408	6.57%	6.60%	6.60%	6.60%	6.59%	6.55%	6.52%	6.57%	6.55%	6.50%	6.47%	6.42%	6.30%	6.14%	6.57%	6.52%	6.44%	6.38%	6.32%	6.18%	6.00%
GRI 409	5.96%	6.00%	6.03%	6.04%	6.05%	6.06%	6.08%	5.96%	5.95%	5.91%	5.88%	5.84%	5.75%	5.62%	5.96%	5.90%	5.82%	5.77%	5.72%	5.60%	5.45%
GRI 410	3.93%	3.89%	3.85%	3.83%	3.82%	3.79%	3.78%	3.93%	3.93%	3.95%	3.97%	3.99%	4.05%	4.16%	3.93%	3.97%	4.02%	4.05%	4.09%	4.17%	4.30%
GRI 411	3.52%	3.56%	3.61%	3.65%	3.68%	3.77%	3.89%	3.52%	3.53%	3.54%	3.54%	3.55%	3.57%	3.61%	3.52%	3.50%	3.48%	3.48%	3.48%	3.49%	3.51%
GRI 412	3.83%	3.83%	3.83%	3.83%	3.83%	3.83%	3.82%	3.83%	3.84%	3.84%	3.85%	3.86%	3.88%	3.90%	3.83%	3.84%	3.86%	3.87%	3.88%	3.90%	3.93%
SOC																					
GRI 413	6.00%	6.02%	6.13%	6.22%	6.34%	6.70%	7.30%	6.00%	6.04%	6.16%	6.25%	6.37%	6.72%	7.25%	6.00%	6.05%	6.17%	6.27%	6.39%	6.72%	7.22%
GRI 414	7.15%	7.16%	7.18%	7.20%	7.22%	7.27%	7.31%	7.15%	7.16%	7.19%	7.21%	7.23%	7.28%	7.30%	7.15%	7.17%	7.20%	7.22%	7.23%	7.27%	7.29%
GRI 415	7.27%	7.24%	7.20%	7.17%	7.14%	7.05%	6.84%	7.27%	7.27%	7.28%	7.28%	7.27%	7.24%	7.12%	7.27%	7.30%	7.34%	7.35%	7.35%	7.34%	7.24%
PR																					
GRI 416	7.61%	7.68%	7.75%	7.79%	7.83%	7.92%	7.99%	7.61%	7.62%	7.62%	7.62%	7.62%	7.60%	7.55%	7.61%	7.56%	7.52%	7.49%	7.47%	7.43%	7.36%
GRI 417	3.48%	3.46%	3.46%	3.48%	3.50%	3.57%	3.69%	3.48%	3.50%	3.54%	3.58%	3.62%	3.72%	3.85%	3.48%	3.53%	3.60%	3.64%	3.69%	3.80%	3.92%
GRI 418	2.91%	2.91%	2.95%	2.99%	3.03%	3.16%	3.35%	2.91%	2.93%	2.98%	3.03%	3.08%	3.22%	3.40%	2.91%	2.94%	3.01%	3.06%	3.11%	3.25%	3.43%
GRI 419	3.25%	3.25%	3.29%	3.33%	3.37%	3.48%	3.63%	3.25%	3.27%	3.32%	3.35%	3.40%	3.51%	3.65%	3.25%	3.28%	3.33%	3.37%	3.42%	3.53%	3.67%

Table 23 – Sensitivity Analysis on Social Disclosures (Global Weights)

	$\lambda = 0$							$\lambda = 0.5$							$\lambda = 1$						
	$\alpha = 0$	$\alpha = 0.2$	$\alpha = 0.4$	$\alpha = 0.5$	$\alpha = 0.6$	$\alpha = 0.8$	$\alpha = 1$	$\alpha = 0$	$\alpha = 0.2$	$\alpha = 0.4$	$\alpha = 0.5$	$\alpha = 0.6$	$\alpha = 0.8$	$\alpha = 1$	$\alpha = 0$	$\alpha = 0.2$	$\alpha = 0.4$	$\alpha = 0.5$	$\alpha = 0.6$	$\alpha = 0.8$	$\alpha = 1$
LPDW	u – v	u = 0.2	u = 0. 1	u = 0.5	u = 0.0	u = 0.0	u – 1	u – v	u = 0.2	u = 0. 1	u – 0.5	u = 0.0	u – 0.0	u – 1	u – o	u = 0.2	u = 0.1	u = 0.5	u = 0.0	u – 0.0	u = 1
GRI 401-1	3.52%	3.56%	3.53%	3.49%	3.44%	3.27%	3.01%	3.52%	3.48%	3.38%	3.30%	3.21%	2.98%	2.68%	3.52%	3.43%	3.28%	3.19%	3.09%	2.86%	2.58%
GRI 401-2	1.91%	1.88%	1.85%	1.82%	1.80%	1.76%	1.72%	1.91%	1.91%	1.91%	1.90%	1.90%	1.88%	1.86%	1.91%	1.94%	1.95%	1.95%	1.95%	1.94%	1.91%
GRI 401-3	1.85%	1.82%	1.80%	1.79%	1.79%	1.78%	1.78%	1.85%	1.85%	1.87%	1.88%	1.89%	1.92%	1.94%	1.85%	1.88%	1.91%	1.93%	1.94%	1.97%	1.98%
<u>GRI 402-1</u>	4.24%	4.22%	4.20%	4.19%	4.17%	4.15%	4.13%	4.24%	4.25%	4.26%	4.28%	4.30%	4.36%	4.47%	4.24%	4.27%	4.31%	4.33%	4.36%	4.45%	4.58%
GRI 403-1	0.70%	0.69%	0.67%	0.66%	0.65%	0.62%	0.59%	0.70%	0.70%	0.70%	0.70%	0.70%	0.70%	0.70%	0.70%	0.71%	0.72%	0.72%	0.72%	0.73%	0.72%
GRI 403-2	0.99%	0.99%	0.98%	0.98%	0.97%	0.94%	0.91%	0.99%	0.98%	0.96%	0.95%	0.93%	0.89%	0.83%	0.99%	0.97%	0.95%	0.94%	0.92%	0.88%	0.82%
GRI 403-3	0.60%	0.60%	0.60%	0.61%	0.61%	0.62%	0.63%	0.60%	0.60%	0.60%	0.61%	0.61%	0.63%	0.65%	0.60%	0.60%	0.60%	0.61%	0.61%	0.63%	0.65%
GRI 403-4	0.69%	0.69%	0.69%	0.68%	0.68%	0.67%	0.66%	0.69%	0.69%	0.69%	0.69%	0.69%	0.69%	0.69%	0.69%	0.70%	0.70%	0.70%	0.70%	0.70%	0.70%
GRI 403-5	0.93%	0.92%	0.89%	0.87%	0.85%	0.80%	0.73%	0.93%	0.93%	0.92%	0.91%	0.90%	0.88%	0.84%	0.93%	0.94%	0.94%	0.93%	0.93%	0.90%	0.86%
GRI 403-6	0.59%	0.59%	0.59%	0.59%	0.59%	0.60%	0.61%	0.59%	0.59%	0.60%	0.60%	0.61%	0.62%	0.65%	0.59%	0.59%	0.60%	0.61%	0.61%	0.63%	0.66%
GRI 403-7	0.99%	0.99%	0.98%	0.97%	0.96%	0.92%	0.86%	0.99%	0.99%	0.97%	0.95%	0.93%	0.88%	0.81%	0.99%	0.98%	0.96%	0.94%	0.93%	0.88%	0.81%
GRI 403-8	0.69%	0.69%	0.69%	0.69%	0.69%	0.69%	0.68%	0.69%	0.69%	0.68%	0.68%	0.68%	0.67%	0.67%	0.69%	0.68%	0.68%	0.68%	0.67%	0.67%	0.67%
GRI 403-9	1.24%	1.24%	1.22%	1.20%	1.18%	1.12%	1.03%	1.24%	1.23%	1.20%	1.18%	1.15%	1.08%	0.98%	1.24%	1.22%	1.19%	1.17%	1.14%	1.07%	0.97%
<u>GRI 403-10</u>	1.20%	1.19%	1.16%	1.14%	1.12%	1.05%	0.95%	1.20%	1.19%	1.17%	1.15%	1.12%	1.05%	0.96%	1.20%	1.19%	1.17%	1.15%	1.12%	1.06%	0.97%
GRI 404-1	2.00%	1.99%	1.96%	1.93%	1.89%	1.79%	1.65%	2.00%	1.99%	1.95%	1.93%	1.89%	1.82%	1.72%	2.00%	1.98%	1.95%	1.92%	1.90%	1.83%	1.74%
GRI 404-2	1.73%	1.71%	1.69%	1.67%	1.64%	1.58%	1.49%	1.73%	1.72%	1.71%	1.70%	1.68%	1.65%	1.60%	1.73%	1.73%	1.72%	1.72%	1.71%	1.68%	1.64%
GRI 404-3	1.71%	1.69%	1.66%	1.65%	1.63%	1.59%	1.51%	1.71%	1.71%	1.71%	1.71%	1.71%	1.71%	1.69%	1.71%	1.72%	1.74%	1.75%	1.75%	1.76%	1.75%
GRI 405-1	2.43%	2.42%	2.40%	2.40%	2.39%	2.38%	2.37%	2.43%	2.43%	2.43%	2.44%	2.44%	2.45%	2.48%	2.43%	2.44%	2.46%	2.47%	2.47%	2.49%	2.52%
GRI 405-2	2.92%	2.90%	2.84%	2.79%	2.74%	2.57%	2.30%	2.92%	2.90%	2.85%	2.81%	2.76%	2.63%	2.42%	2.92%	2.90%	2.85%	2.82%	2.77%	2.65%	2.47%
HR																					
GRI 406-1	4.76%	4.79%	4.81%	4.83%	4.84%	4.88%	4.95%	4.76%	4.76%	4.74%	4.73%	4.72%	4.68%	4.64%	4.76%	4.73%	4.69%	4.67%	4.65%	4.59%	4.53%
GRI 407-1	2.82%	2.85%	2.90%	2.93%	2.97%	3.07%	3.22%	2.82%	2.83%	2.86%	2.88%	2.91%	3.00%	3.16%	2.82%	2.82%	2.84%	2.86%	2.88%	2.97%	3.14%
GRI 408-1	6.57%	6.60%	6.60%	6.60%	6.59%	6.55%	6.52%	6.57%	6.55%	6.50%	6.47%	6.42%	6.30%	6.14%	6.57%	6.52%	6.44%	6.38%	6.32%	6.18%	6.00%
GRI 409-1	5.96%	6.00%	6.03%	6.04%	6.05%	6.06%	6.08%	5.96%	5.95%	5.91%	5.88%	5.84%	5.75%	5.62%	5.96%	5.90%	5.82%	5.77%	5.72%	5.60%	5.45%
GRI 410-1	3.93%	3.89%	3.85%	3.83%	3.82%	3.79%	3.78%	3.93%	3.93%	3.95%	3.97%	3.99%	4.05%	4.16%	3.93%	3.97%	4.02%	4.05%	4.09%	4.17%	4.30%
GRI 411-1	3.52%	3.56%	3.61%	3.65%	3.68%	3.77%	3.89%	3.52%	3.53%	3.54%	3.54%	3.55%	3.57%	3.61%	3.52%	3.50%	3.48%	3.48%	3.48%	3.49%	3.51%
GRI 412-1	1.10%	1.10%	1.11%	1.13%	1.14%	1.19%	1.26%	1.10%	1.10%	1.12%	1.13%	1.14%	1.19%	1.25%	1.10%	1.10%	1.12%	1.13%	1.15%	1.19%	1.24%
GRI 412-2	1.10%	1.10%	1.11%	1.13%	1.14%	1.19%	1.26%	1.10%	1.10%	1.12%	1.13%	1.14%	1.19%	1.25%	1.10%	1.10%	1.12%	1.13%	1.15%	1.19%	1.24%
GRI 412-3	1.64%	1.63%	1.60%	1.58%	1.54%	1.45%	1.30%	1.64%	1.64%	1.61%	1.59%	1.57%	1.50%	1.41%	1.64%	1.64%	1.62%	1.60%	1.58%	1.53%	1.45%
SOC																					
GRI 413-1	2.40%	2.38%	2.43%	2.49%	2.57%	2.84%	3.37%	2.40%	2.43%	2.53%	2.60%	2.71%	2.99%	3.45%	2.40%	2.47%	2.60%	2.69%	2.79%	3.08%	3.49%
GRI 413-2	3.60%	3.64%	3.70%	3.73%	3.77%	3.86%	3.93%	3.60%	3.61%	3.63%	3.65%	3.67%	3.72%	3.80%	3.60%	3.58%	3.57%	3.58%	3.60%	3.65%	3.74%
GRI 414-1	2.38%	2.34%	2.32%	2.32%	2.33%	2.37%	2.44%	2.38%	2.40%	2.44%	2.47%	2.51%	2.61%	2.74%	2.38%	2.45%	2.54%	2.59%	2.65%	2.77%	2.92%
GRI 414-2	4.77%	4.82%	4.86%	4.88%	4.89%	4.91%	4.88%	4.77%	4.76%	4.75%	4.74%	4.72%	4.67%	4.56%	4.77%	4.72%	4.66%	4.63%	4.59%	4.50%	4.37%

GRI 415-1	7.27%	7.24%	7.20%	7.17%	7.14%	7.05%	6.84%	7.27%	7.27%	7.28%	7.28%	7.27%	7.24%	7.12%	7.27%	7.30%	7.34%	7.35%	7.35%	7.34%	7.24%
PR																					
GRI 416-1	2.18%	2.15%	2.13%	2.13%	2.13%	2.14%	2.16%	2.18%	2.18%	2.21%	2.22%	2.24%	2.29%	2.35%	2.18%	2.22%	2.27%	2.31%	2.34%	2.42%	2.50%
GRI 416-2	5.44%	5.53%	5.62%	5.67%	5.71%	5.78%	5.83%	5.44%	5.43%	5.41%	5.40%	5.37%	5.31%	5.20%	5.44%	5.34%	5.24%	5.19%	5.13%	5.01%	4.86%
GRI 417-1	0.58%	0.57%	0.57%	0.57%	0.58%	0.59%	0.62%	0.58%	0.58%	0.60%	0.61%	0.62%	0.66%	0.71%	0.58%	0.60%	0.62%	0.64%	0.66%	0.70%	0.76%
GRI 417-2	1.45%	1.44%	1.45%	1.45%	1.46%	1.49%	1.53%	1.45%	1.46%	1.47%	1.48%	1.50%	1.53%	1.57%	1.45%	1.47%	1.49%	1.50%	1.52%	1.55%	1.58%
GRI 417-3	1.45%	1.44%	1.45%	1.45%	1.46%	1.49%	1.53%	1.45%	1.46%	1.47%	1.48%	1.50%	1.53%	1.57%	1.45%	1.47%	1.49%	1.50%	1.52%	1.55%	1.58%
GRI 418-1	2.91%	2.91%	2.95%	2.99%	3.03%	3.16%	3.35%	2.91%	2.93%	2.98%	3.03%	3.08%	3.22%	3.40%	2.91%	2.94%	3.01%	3.06%	3.11%	3.25%	3.43%
GRI 419-1	3.25%	3.25%	3.29%	3.33%	3.37%	3.48%	3.63%	3.25%	3.27%	3.32%	3.35%	3.40%	3.51%	3.65%	3.25%	3.28%	3.33%	3.37%	3.42%	3.53%	3.67%

		-		-							
	Scenarios				Items				Ranks		
	# Accurate	Number	Α	ccuracy	# Accurate	Number	Α	ccuracy	# Accurate	Number	Accuracy
Economic											
Topics	14	2	20	70.00%	4		7	57.14%	124	140	88.57%
Disclosures	20	2	20	100.00%	15	1	L5	100.00%	300	300	100.00%
Environmental											
Topics	13	2	20	65.00%	4		8	50.00%	148	160	92.50%
Disclosures	11	2	20	55.00%	17	3	31	54.84%	573	620	92.42%
Social											
Subcategories	20	2	20	100.00%	4		4	100.00%	80	80	100.00%
Topics	3	2	20	15.00%	4	1	19	21.05%	294	380	77.37%
Disclosures	0	2	20	0.00%	14	3	30	46.67%	510	600	85.00%
LPDW											
Topics	19	2	20	95.00%	3		5	60.00%	98	100	98.00%
Disclosures	2	2	20	10.00%	3	1	18	16.67%	275	360	76.39%
HR											
Topics	17	2	20	85.00%	4		7	57.14%	134	140	95.71%
Disclosures	20	2	20	100.00%	3		3	100.00%	60	60	100.00%
SOC											
Topics	12	2	20	60.00%	0		3	0.00%	44	60	73.33%
Disclosures	20	2	20	100.00%	4		4	100.00%	80	80	100.00%
PR											
Topics	20	2	20	100.00%	4		4	100.00%	80	80	100.00%
Disclosures	20	2	20	100.00%	5		5	100.00%	100	100	100.00%

#### Table 24 – Relative Robustness Scores of Scenarios, Topics, Disclosures, and Ranks (Global Weights)