

Corporate cases on the issue of carbon

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Institute for International Trade, HYUNSUK JANG



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Increasing pressure to open the carbon data

Recognition of importance of carbon emission reduction on supply chain

- Dell: requesting information of carbon emissions of suppliers from 2009
- P&G: releasing a score card about environmental sustainability of supply chain in May, 2010
- Siemens: including the ability to manage information of carbon emissions as requirements for PQ(Prequalification)

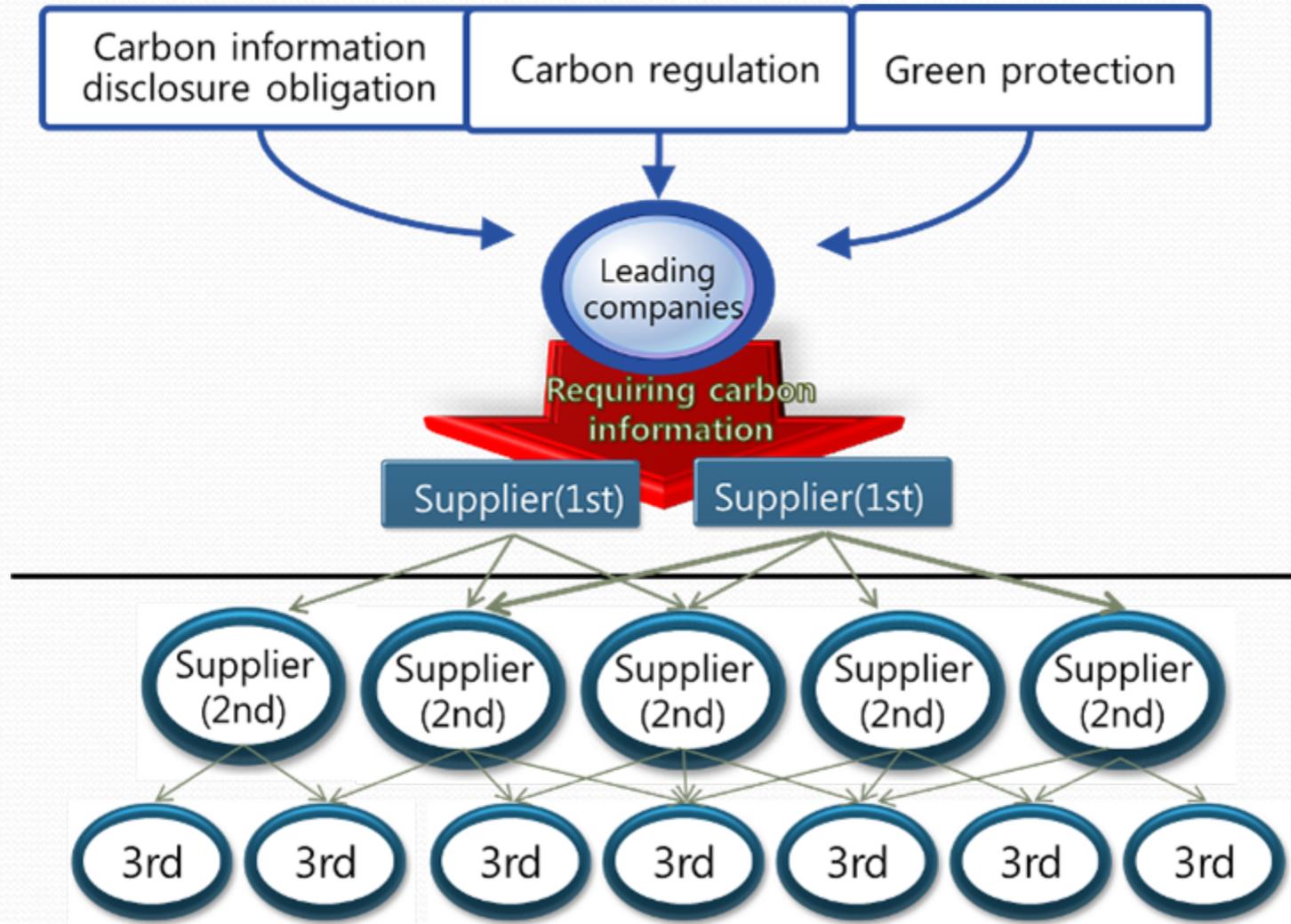
Leading companies induce regulation of carbon information management

- EU: They claim CIM(Carbon Inclusion Mechanism) which makes purchasing EU CER(Certified Emission Reduction) on products imported to the region compulsory

Publishing companies which report about carbon footprint report/carbon strategy report appear

- Nokia, Siemens, EIB(European Investment Bank), Rockefeller Brothers Fund, London Underground, Posco, Woongjin, Hynix etc.

Increasing pressure to open the carbon data



Requiring type of carbon emission information

Ask answering information about CDP (Carbon Disclosure Project)

- IBM, Baxter, BASF, Sony, Vodafone, PepsiCo, Acer etc.

<EICC >

<IBM>

1
2 **Data Reporting Form**
3
4
5 **Instructions:** Input data into yellow boxes, to the best of your knowledge grey
6 boxes will be calculated automatically. Click on the hyperlinked terms if you need
7 guidance on how to respond. Send your completed response to:
8 ghgsupport@bsr.org by July 15.

Key: Required Fields to complete
Optional Fields
Automatic fields

10
11 **General Information**
12
13 1. Company Name
14
15 2. **Contact Information**
16 Contact name
17 Title
18 Department
19 City
20 State
21 Country
22 Telephone number
23 Email address
24
25 3. **Global Operations (Estimated)**
26 Global Revenue Amount (Currency)
27 Number of workers (full-time equivalent)
28
29 4. **Reporting Time Period**
30 Beginning date *NOTE: Time period should reflect 12 mon
31 Ending date
32
33 **Direct and Indirect Emissions**
34

Supplier Requirements

IBM's Requirements for Suppliers Regarding a Corporate Responsibility Environmental Management System, Measuring Performance, and Disclosing Results

IBM asks its suppliers to:

1. define, deploy, and sustain a corporate responsibility and environmental management system that identifies significant aspects of the business with these matters, including those articulated in IBM's Supplier Code of Conduct and the Electronic Industry Citizenship Coalition Code of Conduct

2. establish programs (within the management system) to control and monitor risks that intersect with these matters and confirm compliance with applicable laws and any particular contractual requirements

3. measure performance associated with supplier's significant environmental risks where applicable and include at a minimum each of the following virtually all businesses:

- energy conservation
- scope 1 and scope 2 greenhouse gas emissions *

Requiring type of carbon emission information

Need through their own supplier questionnaire

- Walmart, HP, Dell, Lenovo, AMD, Intel, Fusitsu, Microsoft, AmTRAN Technology, Compal Electronics etc.

<HP, Dell, Lenovo, AMD, Intel>

If your firm has already determined your Scope 1 and 2 GHG emissions according to the WRI GHG protocol
A reference for the WRI GHG Emissions Protocol can be found here

Direct Greenhouse Gas (GHG) Annual Emissions (Scope 1)	Amount (MTCO2e)
Total global scope 1 emissions (in Metric Ton Carbon Dioxide Equivalents)	
Indirect GHG Annual Emissions from Purchased Electricity (Scope 2)	Amount (MTCO2e)
Total global scope 2 emissions (in Metric Ton Carbon Dioxide Equivalents)	

If you have not previously calculated Scope 1 and 2 emissions, please enter the following information:

Please enter the amount of fuel purchased per year for vehicles used in facility operations.

Transportation fuel for facility-owned vehicles	Amount	Units
Motor gasoline/Petrol		
Diesel		
Gas/Diesel oil		
Biofuel		
Kerosene		
Lubricants		
Compressed Natural Gas		
Liquefied Natural Gas		
Liquefied Petroleum gases		
Other		

<Fujitsu>

3-3. Are you doing activities with numerical target to limit or reduce CO2 emissions?

Doing activity to achieve numerical target → Yes

While the management unit you use.

Please choose a unit type using on your activities.

Base year *1	1890
Management unit	CO2 per \$10,000 Unit types → Resistant for sales Other
Active period	From 2009/4/1 to 2010/3/31 e.g. from YYYYMMDD to YYYYMMDD
Target value	Target types → Reduction amount rate We want to reduce 20% of emission by 2011 compared with 1890.
Activity scope (entire company, business places, etc.)	All domestic bases and branch offices
Details of activities *2	Replacement for high energy rate equipment, reduction of electricity usage
*1 If you have limiting or reducing emission target, you have to fill in the fiscal year for comparison. If you set the limit for you have to fill in the year when you start doing activities.	
*2 e.g. Reduction of electricity usage at the office, the simplification of manufacturing process, etc.	Please write the evidence's name which we can confirm what you wrote above.
Evidence's name	Activity of reducing greenhouse gas emission (our website)
Website URL	http://www.greenpeace.org/jp/GHG
Note: Please attach any of pdf documents which proves your activities if you don't announce on website.	
Please enter any comments or special instructions if you have.	
Our numerical target and reducing plan conform to the XCOO industry institute's guideline which we are belonging to.	

<Compal Electronics>

No	Compal Supplier GHG Survey	Pls select Yes/No
	Does your company complete GHG inventory? If yes, please provide latest inventory year, total gross global Scope 1 and Scope 2 GHG emissions respectively in metric tonnes of CO2e. (fill in column D) If no, (don't have to answer Question 2 to 6) when does your company plan for first GHG inventory? (fill in column D) 貴公司是否已完成溫室氣體盤查? 如是, 請於D欄填寫最近一次盤查的年度, 並分別列出範疇一與範疇二溫室氣體排放數據, 如否, 以下問題2至問題6無須填寫, 並於D欄填寫貴公司預計完成第一次溫室氣體盤查計畫時間。	Yes
	Does your company define a responsible organization/department/team for greenhouse gases management/reduction? 2 If yes, please provide the contact window's name, phone no., email in column D 請問貴公司是否已設立專責單位負責溫室氣體排放管理/減量? 如是, 請於D欄填寫單位名稱及聯絡窗口姓名、電話、email	Yes
	Has your company GHG inventory been verified by third party with certified statement? If yes, which third party? If no, when does your company plan for external verification? If no plan, pls answer NA. (fill column D) 請問貴公司溫室氣體盤查結果是否已經過第三方公正單位(外審)查證, 並獲得查證聲明? 如是, 請於D欄回覆第三方公正單位名稱, 如否, 請於D欄回覆計畫完成或外部查證時間, 如尚未計畫執行外部查證, 請填NA.	Yes
	Does your company have set up GHG emissions reduction target? If yes, please list the Y2010 target value and base year in column D. 請問貴公司是否已訂定溫室氣體減量目標? 如是, 請於D欄列出2010年目標與基準年。	Yes

Requiring type of carbon emission information

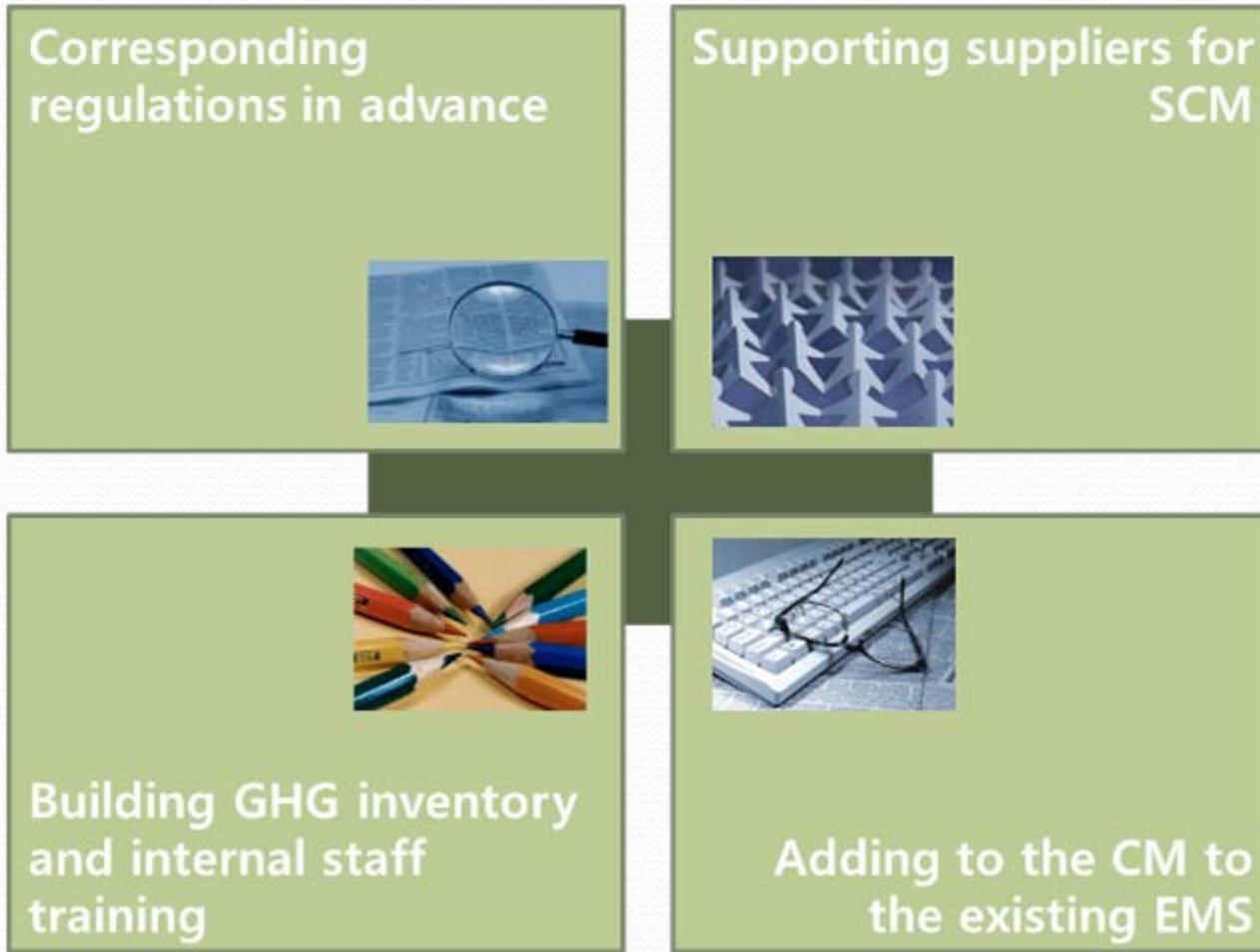
Enter information into on-line systems

- Wistron etc.

The screenshot displays the Wistron Green Product Management System interface. The main content area is titled "Data Entry (Trade Site) - Questionnaire" and includes a "Message Board" section. Below this is a "Detailed Information" section with a dropdown menu for "Department" set to "Grace Technology Team". A text box contains instructions: "This questionnaire is to investigate the understood the status with your company internal Greenhouse Gas (GHG) emissions inventory, please kindly fill in below questions and complete it on or before 1/15 /2013." and "Choosing the number of '0' means your company had not issued data with this item." There are fields for "Filed out by:" and "Upload Questionnaire Verification" with a "Browse..." button. A "Delete" button is also present. At the bottom, there is a table titled "I, GHG" with columns for "No.", "Question", "Result", and "Description".

No.	Question	Result	Description
1-1	Does your company have been the implementation of internal greenhouse gas (GHG) emissions inventory? 貴公司是否已執行內部溫室氣體(GHG)排放盤點?	0 1 2 3 4 5	See attached file
1-2	Does your company have agreed to have been implemented internal greenhouse gas (GHG) emissions inventory results to Wistron? If it is agreed to, please provide the internal greenhouse gas (GHG) emissions inventory results to Wistron. 貴公司是否同意將執行內部溫室氣體(GHG)排放盤點結果提交Wistron? 若已同意,請提供內部溫室氣體(GHG)排放盤點結果給Wistron。	0 1 2 3 4 5	
1-3	Does your company have commissioned a third party agency with the implementation of internal greenhouse gas (GHG) emissions inventory of the external validation? 貴公司是否委託第三方公證單位執行內部溫室氣體(GHG)排放盤點之外部驗證?	0 1 2 3 4 5	
1-4	Does your company have agreed to have commissioned a third party agency with the implementation of internal greenhouse gas (GHG) emissions inventory of the external validation results and certificate to Wistron? If it is agreed to, please provide the commission a third party agency with the implementation of the internal greenhouse gas (GHG) emissions inventory of the external validation results and certificate to Wistron. 貴公司是否同意將已委託第三方公證單位執行內部溫室氣體(GHG)排放盤點之外部驗證結果及證書提交Wistron?	0 1 2 3 4 5	

Case studies

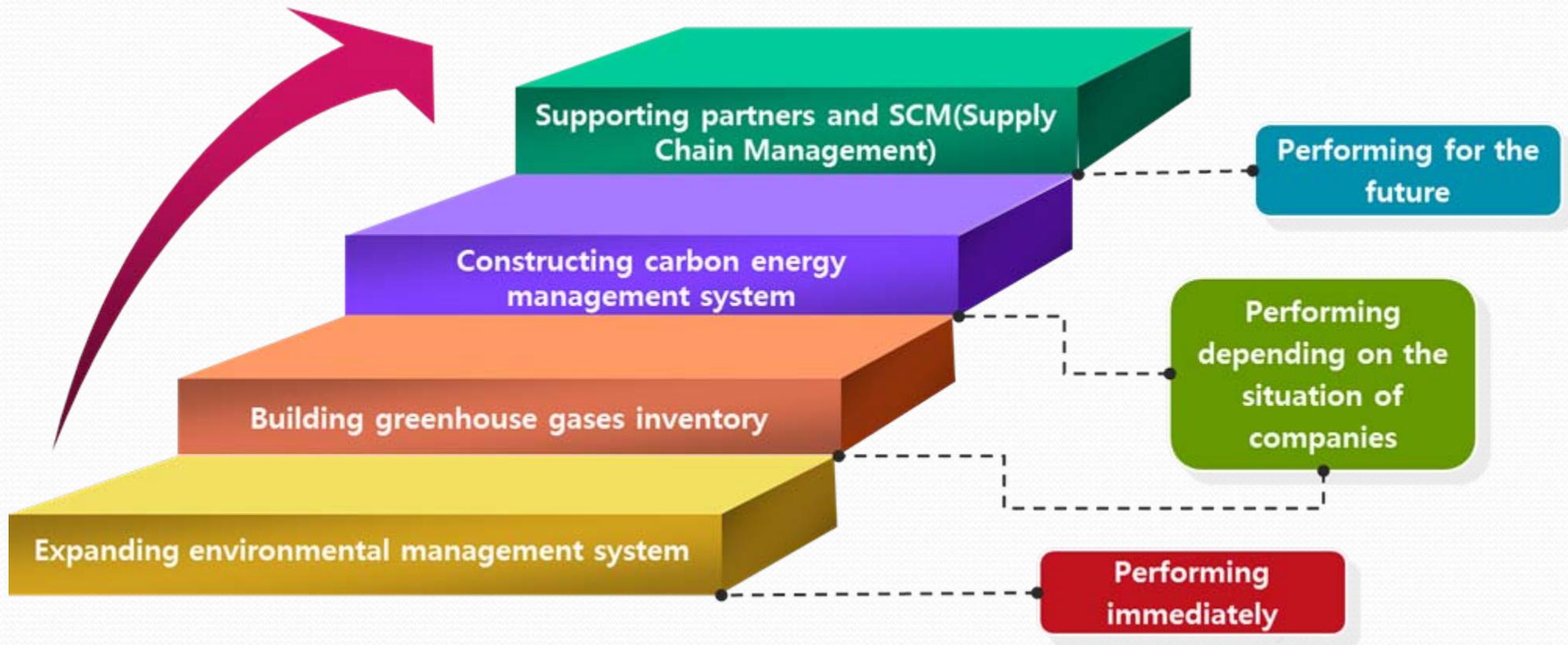


*SCM: Supply Chain Management
*GHG: Greenhouse gases

*CM: Carbon Management
*EMS : Environment Management System

Corporate response strategies

- 4 different possible strategic approach by corresponding degree and timing



Corporate response strategies

- Preparing active promotional strategies about various efforts and results



Thank you!

Institute for International Trade,
HYUN-SUK JANG
zestjang@kita.net