

Module: Introduction**Page: Introduction****CC0.1****Introduction**

Please give a general description and introduction to your organization.

Founded in 1983, Advantech is a leader in providing trusted innovative embedded and automation products and solutions. Advantech offers comprehensive system integration, hardware, software, customer-centric design services, and global logistics support; all backed by industry-leading front and back office e-business solutions. Advantech has always been an innovator in the development and manufacture of high-quality, high-performance computing platforms. We cooperate closely with our partners to help provide complete solutions for a wide array of applications across a diverse range of industries. To realize our corporate vision of Enabling an Intelligent Planet, Advantech will continue collaborating and Partnering for Smart city & IoT Solutions.

At the core of Advantech's implementation of corporate citizenship is its commitment to Corporate Social Responsibility (CSR). In accord with that commitment, Advantech has established its Board, Audit Committee, Compensation Committee, Risk Management Committee and other mechanisms to oversee and help organize the corporate operation, audit institutions, improve corporate governance and make it fully responsible to its valued stakeholders. Moreover, through its quality management commitment which has been an essential part of its corporate culture, Advantech is devoted to consistent innovation in design, product quality and reliability, and in being responsible toward both its customers and the environment. Due to our on-going efforts, Advantech has not only grown steadily in size and profit, but also repeatedly won the endorsements of many well-known brands and product awards at home and abroad.

1. Building a Successful Sustainable LITA (altruistic) Enterprise:

Advantech believes, a corporation is just like an LITA (altruistic) tree rooted in the earth. To make the tree grow strongly, sunshine, air, water, and nutrients are needed, none is dispensable.

We think that perfect company governance and stakeholder balance will root the corporation deeply and establish a solid foundation. Sound organization development will grow into a strong trunk to support the corporation's operations; active talent cultivation will make the corporation flourish and expand with green shoots for market growth, and finally bear rich profitable fruit that the whole corporation can share together; and finally at last the fruit will drop to the ground to nourish the earth, so a corporation will also undertake full responsibility as a social citizen.

Advantech believes in altruism, and considers the "altruist LITA tree" spirit is the core value of the corporation. We believe, as a social organism, a corporation must sow good deeds with an altruistic spirit, and naturally gain unlimited blessings through a continuous virtuous cycle.

Advantech is proud and conscientious about its social citizenship responsibilities, and is expected to lead the whole industry to a place where everyone can live and work in peace and contentment.

2. Consider Stakeholder Balance as the Base of Operation:

Advantech thinks the base of sustainable operation is, seeking the perfect balance of stockholders. Only if the foundation is solid, can the enterprise last and the

LITA tree spirit be implemented. We abandon the traditional narrow value that aims to maximize stockholder benefit as the only goal. We believe, that in addition to the support of stockholders, the growth of a corporation also needs active employee involvement, customer satisfaction and trust, along with all their share of virtuous social engagement.

For stockholders with long support, we promise we will always operate in an open and honest spirit and reward them with a stable dividend as we progress toward a sustainable operation.

For employees, we promise Advantech will provide an honest and open development environment where employees can enjoy a beautiful life and entrust themselves for a lifetime.

For customers that trust us, we promise we will always focus on being a global leader in the system integration service field, and take "Enabling an intelligent planet" as our long-term vision for future development.

For society that coexists and thrives together with us, we promise we will dedicate ourselves to becoming a model corporate citizen, actively promote an altruistic spirit, and benefit the public with our industrial results, and return the corporation's growth back to society.

CC0.2

Reporting Year

Please state the start and end date of the year for which you are reporting data.

The current reporting year is the latest/most recent 12-month period for which data is reported. Enter the dates of this year first.

We request data for more than one reporting period for some emission accounting questions. Please provide data for the three years prior to the current reporting year if you have not provided this information before, or if this is the first time you have answered a CDP information request. (This does not apply if you have been offered and selected the option of answering the shorter questionnaire). If you are going to provide additional years of data, please give the dates of those reporting periods here. Work backwards from the most recent reporting year.

Please enter dates in following format: day(DD)/month(MM)/year(YYYY) (i.e. 31/01/2001).

Enter Periods that will be disclosed

Wed 01 Jan 2014 - Wed 31 Dec 2014

CC0.3

Country list configuration

Please select the countries for which you will be supplying data. If you are responding to the Electric Utilities module, this selection will be carried forward to assist you in completing your response.

Select country
Taiwan

CC0.4

Currency selection

Please select the currency in which you would like to submit your response. All financial information contained in the response should be in this currency.

TWD

CC0.6

Modules

As part of the request for information on behalf of investors, electric utilities, companies with electric utility activities or assets, companies in the automobile or auto component manufacture sub-industries, companies in the oil and gas sub-industries, companies in the information technology and telecommunications sectors and companies in the food, beverage and tobacco industry group should complete supplementary questions in addition to the main questionnaire.

If you are in these sector groupings (according to the Global Industry Classification Standard (GICS)), the corresponding sector modules will not appear below but will automatically appear in the navigation bar when you save this page. If you want to query your classification, please email respond@cdp.net.

If you have not been presented with a sector module that you consider would be appropriate for your company to answer, please select the module below. If you wish to view the questions first, please see <https://www.cdp.net/en-US/Programmes/Pages/More-questionnaires.aspx>.

Further Information

Advantech CSR Website: <http://www.advantech.com/csr/default.aspx>

Module: Management

CC1.1

Where is the highest level of direct responsibility for climate change within your organization?

Board or individual/sub-set of the Board or other committee appointed by the Board

CC1.1a

Please identify the position of the individual or name of the committee with this responsibility

At the core of Advantech's implementation of corporate citizenship is its commitment to Corporate Social Responsibility (CSR). In accord with that commitment, Advantech has established its Board, Audit Committee, Compensation Committee, Risk Management Committee and other mechanisms to oversee and help organize the corporate operation, audit institutions, improve corporate governance and make it fully responsible to its valued stakeholders. The organization of risk management steering committee: Board Chairman : CEO; Director on Board: COO, CFO, CTO, CIO, HR, Procurement V.P., Logistics V.P., Manufactory V.P. Everyone in Advantech has responsibility for enterprise risk management. The Chief Executive Officer is ultimately responsible and assumes ownership. Management team supports the risk management policy & process, promote compliance with its risk appetite, and manage risks within their spheres of responsibility. All employees are expected to be familiar with this policy, take a risk management approach to their work and escalate issues to the management team. The region, group and function heads are responsible for implementing the policy, monitoring its implementation in the everyday activities of their division. The risk management steering committee consists of the key executives is required to review and monitoring of the risk management process semi-annually to ensure that risks are effectively identified and assessed and that appropriate controls and responses are in place. An irregular meeting is hold by CEO when significant risk is triggered.

Advantech also builds the CSR committee team to manage all the relative tasks. Please find the attachment "Advantech CSR committee introduction" as detail reference.

CC1.2

Do you provide incentives for the management of climate change issues, including the attainment of targets?

Yes

CC1.2a

Please provide further details on the incentives provided for the management of climate change issues

Who is entitled to benefit from these incentives?	The type of incentives	Incentivized performance indicator	Comment
Board chairman	Monetary reward		The Chief Executive Officer is ultimately responsible and assumes ownership.
Board/Executive board	Monetary reward		CFO (Chief Financial Officer) and Legal Manager e.g.exchange rate, interest rate, global regulation analysis
Director on board	Monetary reward		COO, CFO, CTO, CIO, HR, Procurement V.P., Logistics V.P., Manufactory V.P. : 1.Financial Risks 2.Operational Risks 3.Technology Risks 4.Quality Risks 5.Human Resource Risks
Corporate executive team	Recognition (non-monetary)		Overall environmental factors that cause potential threat to Advantech's operations and business ranging from exchange rate, interest rate, political situation, important social event, educational level of invested area, significant market booming or depression that causes demand fluctuation, commodity and material price changes posing a threat to Advantech's operation and business, etc.
Business unit managers	Recognition (non-monetary)		The region, group and function heads are responsible for implementing the policy, monitoring its implementation in the everyday activities of their division.
All employees	Other non-monetary reward		All employees are expected to be familiar with this policy, take a risk management approach to their work and escalate issues to the management team.

Further Information

Please refer our BCP (Business Continuity Plan) procedure as attachment. For CSR committee, please also refer the Advantch CSR committee introduction as attachment

Attachments

<https://www.cdp.net/sites/2015/30/21330/Climate Change 2015/Shared Documents/Attachments/ClimateChange2015/CC1.Governance/Advantech CSR committee Introduction.pdf>
https://www.cdp.net/sites/2015/30/21330/Climate Change 2015/Shared Documents/Attachments/ClimateChange2015/CC1.Governance/E-009_Advantech Business Continuity Plan_A0.pdf

CC2.1

Please select the option that best describes your risk management procedures with regard to climate change risks and opportunities

Integrated into multi-disciplinary company wide risk management processes

CC2.1a

Please provide further details on your risk management procedures with regard to climate change risks and opportunities

Frequency of monitoring	To whom are results reported?	Geographical areas considered	How far into the future are risks considered?	Comment
Annually	Board or individual/sub-set of the Board or committee appointed by the Board	The risks facing an organization and its operations can result from factors both external and internal to the organization. The following five key risk categories and five risk sources are identified: Five Key risk categories: - Financial Risks - Operational Risks - Technology Risks - Quality Risks - Human Resource Risks Five risk sources: Natural Hazard: Significant geographical & natural environmental changes that pose impact or threat on Advantech's operation and business continuity.	Up to 1 year	Laws & Regulations: Laws & regulations those are relevant to Advantech's operation ranging from labor insurance, health care insurance, and environmental regulations, to accounting policies & financing regulation. Internal Resource: Misconduct or human mistake/error of management, staff, first-line personnel that causes serious damage or loss of Advantech's operations and business. Macro Environment: Overall environmental factors that cause potential threat to Advantech's operations and business ranging from exchange rate, interest rate, political situation, important social event, educational level of invested area, significant market booming or depression that causes demand fluctuation, commodity and material price changes posing a threat to Advantech's operation and business, etc. External Resource: Resource outside the business scope of Advantech ranging from local community, financing resource (i.e. banks, bondholders, stockholders), government, suppliers, etc.

CC2.1b

Please describe how your risk and opportunity identification processes are applied at both company and asset level

The risks facing an organization and its operations can result from factors both external and internal to the organization. The following five key risk categories and five risk sources are identified: Five Key risk categories: - Financial Risks - Operational Risks - Technology Risks - Quality Risks - Human Resource Risks Five risk sources: Natural Hazard: Significant geographical & natural environmental changes that pose impact or threat on Advantech's operation and business continuity.

CC2.1c

How do you prioritize the risks and opportunities identified?

Laws & Regulations: Laws & regulations those are relevant to Advantech's operation ranging from labor insurance, health care insurance, and environmental regulations, to accounting policies & financing regulation. Internal Resource: Misconduct or human mistake/error of management, staff, first-line personnel that causes serious damage or loss of Advantech's operations and business. Macro Environment: Overall environmental factors that cause potential threat to Advantech's operations and business ranging from exchange rate, interest rate, political situation, important social event, educational level of invested area, significant market booming or depression that causes demand fluctuation, commodity and material price changes posing a threat to Advantech's operation and business, etc. External Resource: Resource outside the business scope of Advantech ranging from local community, financing resource (i.e. banks, bondholders, stockholders), government, suppliers, etc.

CC2.1d

Please explain why you do not have a process in place for assessing and managing risks and opportunities from climate change, and whether you plan to introduce such a process in future

Main reason for not having a process	Do you plan to introduce a process?	Comment

CC2.2

Is climate change integrated into your business strategy?

Yes

CC2.2a

Please describe the process of how climate change is integrated into your business strategy and any outcomes of this process

The risks facing an organization and its operations can result from factors both external and internal to the organization. The following five key risk categories and five risk sources are identified: Five Key risk categories: - Financial Risks - Operational Risks - Technology Risks - Quality Risks - Human Resource Risks Five risk sources: Natural Hazard: Significant geographical & natural environmental changes that pose impact or threat on Advantech's operation and business continuity. Laws & Regulations: Laws & regulations those are relevant to Advantech's operation ranging from labor insurance, health care insurance, and environmental regulations, to accounting policies & financing regulation. Internal Resource: Misconduct or human mistake/error of management, staff, first-line personnel that causes serious damage or loss of Advantech's operations and business. Macro Environment: Overall environmental factors that cause potential threat to Advantech's operations and business ranging from exchange rate, interest rate, political situation, important social event, educational level of invested area, significant market booming or depression that causes demand fluctuation, commodity and material price changes posing a threat to Advantech's operation and business, etc. External Resource: Resource outside the business scope of Advantech ranging from local community, financing resource (i.e. banks, bondholders, stockholders), government, suppliers, etc.

CC2.2b

Please explain why climate change is not integrated into your business strategy

CC2.2c

Does your company use an internal price of carbon?

No, and we currently don't anticipate doing so in the next 2 years

CC2.2d

Please provide details and examples of how your company uses an internal price of carbon

CC2.3

Do you engage in activities that could either directly or indirectly influence public policy on climate change through any of the following? (tick all that apply)

- Direct engagement with policy makers
- Funding research organizations

CC2.3a

On what issues have you been engaging directly with policy makers?

Focus of legislation	Corporate Position	Details of engagement	Proposed legislative solution
Mandatory carbon reporting	Support	In the establishment of environmental, health and safety management system, Advantech already hired environmental engineering expert to identify our activities, products and services process.	According to GRI KPI index, collect the data once a month.
Energy efficiency	Support	In the establishment of environmental, health and safety management system, Advantech already hired environmental engineering expert to identify our activities, products and services process.	According to GRI KPI index, collect the data once a month.
Clean energy generation	Support	In the establishment of environmental, health and safety management system, Advantech already hired environmental engineering expert to identify our activities, products and services process.	
Energy efficiency	Support	Advantech built the Linkou green building and implement Intelligent Building Energy Management to perform effective green energy management. Please refer the attachment report for detail reference.	2014 Aug to 2015 May Energy Saving : 11.9% , 290Myh Expense saving: NT\$ 1.01M

CC2.3b

Are you on the Board of any trade associations or provide funding beyond membership?

CC2.3c

Please enter the details of those trade associations that are likely to take a position on climate change legislation

Trade association	Is your position on climate change consistent with theirs?	Please explain the trade association's position	How have you, or are you attempting to, influence the position?
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CC2.3d

Do you publicly disclose a list of all the research organizations that you fund?

Yes

CC2.3e

Do you fund any research organizations to produce or disseminate public work on climate change?

Yes

CC2.3f

Please describe the work and how it aligns with your own strategy on climate change

1. In the establishment of environmental, health and safety management system, Advantech already hired environmental engineering expert to identify our activities, products and services process which might be involved in legislation and regulations, and recorded it in list by assigner. 2. There are the consultants of the research organizations e.g. SGS, TUV and IST.

CC2.3g

Please provide details of the other engagement activities that you undertake

CC2.3h

What processes do you have in place to ensure that all of your direct and indirect activities that influence policy are consistent with your overall climate change strategy?

1. In the establishment of environmental, health and safety management system, Advantech already hired environmental engineering expert to identify our activities, products and services process which might be involved in legislation and regulations, and recorded it in list by assigner. 2. There are the consultants of the research organizations e.g. SGS, TUV and IST.

CC2.3i

Please explain why you do not engage with policy makers

CC2.4

Would your organization's board of directors support an international agreement between governments on climate change, which seeks to limit global temperature rise to under two degree Celsius from pre-industrial levels in line with IPCC scenarios such as RCP2.6?

Yes

CC2.4a

Please describe your board's position on what an effective agreement would mean for your organization and activities that you are undertaking to help deliver this agreement at the 2015 United Nations Climate Change Conference in Paris (COP 21)

1) Keep implementing the environmental, health and safety management system, Advantech already hired environmental engineering expert to identify our activities, products and services process which might be involved in legislation and regulations, and recorded it in list by assigner.

2) Implement intelligent genery saving solution in Advantech's building.

Further Information

1. Please refer our BCP (Business Continuity Plan) as attachment. 2. Please refer our 2014 CSR report as attachment, in that Chapter 4 is for environment. 3. Please refer Advantech Intelligent building solution report

Attachments

[https://www.cdp.net/sites/2015/30/21330/Climate Change 2015/Shared Documents/Attachments/ClimateChange2015/CC2.Strategy/Advantech CSR report- Chap 4 Environmental management.pdf](https://www.cdp.net/sites/2015/30/21330/Climate%20Change%202015/Shared%20Documents/Attachments/ClimateChange2015/CC2.Strategy/Advantech%20CSR%20report-Chapter%204%20Environmental%20management.pdf)
[https://www.cdp.net/sites/2015/30/21330/Climate Change 2015/Shared Documents/Attachments/ClimateChange2015/CC2.Strategy/E-009_Advantech Business Continuity Plan_A0.pdf](https://www.cdp.net/sites/2015/30/21330/Climate%20Change%202015/Shared%20Documents/Attachments/ClimateChange2015/CC2.Strategy/E-009_Advantech%20Business%20Continuity%20Plan_A0.pdf)
[https://www.cdp.net/sites/2015/30/21330/Climate Change 2015/Shared Documents/Attachments/ClimateChange2015/CC2.Strategy/Advantech intelligent Building Solution_For CDP_201506.pdf](https://www.cdp.net/sites/2015/30/21330/Climate%20Change%202015/Shared%20Documents/Attachments/ClimateChange2015/CC2.Strategy/Advantech%20intelligent%20Building%20Solution_For%20CDP_201506.pdf)

Page: CC3. Targets and Initiatives

CC3.1

Did you have an emissions reduction target that was active (ongoing or reached completion) in the reporting year?

Intensity target

CC3.1a

Please provide details of your absolute target

ID	Scope	% of emissions in scope	% reduction from base year	Base year	Base year emissions (metric tonnes CO2e)	Target year	Comment
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CC3.1b

Please provide details of your intensity target

ID	Scope	% of emissions in scope	% reduction from base year	Metric	Base year	Normalized base year emissions	Target year	Comment
Int1	Scope 2	96.82%	28.9%	metric tonnes CO2e per FTE employee	2013	7911	2014	2013 : Emissions in scope 2= 7162 tones CO2e, 2077 employees (7162/2077= 3.448) 2014 : Emissions in scope 2= 7911 tones CO2e, 3229 employees (7911/3229=2.449) Reduction target is (3.448-2.449)/3.448=28.9%

CC3.1c

Please also indicate what change in absolute emissions this intensity target reflects

ID	Direction of change anticipated in absolute Scope 1+2 emissions at target completion?	% change anticipated in absolute Scope 1+2 emissions	Direction of change anticipated in absolute Scope 3 emissions at target completion?	% change anticipated in absolute Scope 3 emissions	Comment
Int1	Increase	10.8	No change	0	2013 : Emissions in scope 1= 212 tones CO2e, scope 2= 7162 tones CO2e 2014 : Emissions in scope 1= 260 tones CO2e, scope 2= 7911 tones CO2e (260+7911) - (212+7162) / (212+7162) = 10.8% Note: Since Advantech construct a new Linkou building in 2014 due to increase of energy consuming

CC3.1d

For all of your targets, please provide details on the progress made in the reporting year

ID	% complete (time)	% complete (emissions)	Comment
Int1	100%	100%	2013 :3.448 tones CO2e per FTE employee (Emissions in scope 2= 7162 tones CO2e, 2077 employees) 2014 : 2.449 tones CO2e per FTE employee (Emissions in scope 2= 7911 tones CO2e, 3229 employees)

CC3.1e

Please explain (i) why you do not have a target; and (ii) forecast how your emissions will change over the next five years

CC3.2

Does the use of your goods and/or services directly enable GHG emissions to be avoided by a third party?

No

CC3.2a

Please provide details of how the use of your goods and/or services directly enable GHG emissions to be avoided by a third party

CC3.3

Did you have emissions reduction initiatives that were active within the reporting year (this can include those in the planning and/or implementation phases)

Yes

CC3.3a

Please identify the total number of projects at each stage of development, and for those in the implementation stages, the estimated CO2e savings

Stage of development	Number of projects	Total estimated annual CO2e savings in metric tonnes CO2e (only for rows marked *)
Under investigation		
To be implemented*		
Implementation commenced*		
Implemented*		
Not to be implemented		

CC3.3b

For those initiatives implemented in the reporting year, please provide details in the table below

Activity type	Description of activity	Estimated annual CO2e savings (metric tonnes CO2e)	Scope	Voluntary/ Mandatory	Annual monetary savings (unit currency - as specified in CC0.4)	Investment required (unit currency - as specified in CC0.4)	Payback period	Estimated lifetime of the initiative	Comment
Energy efficiency:	1.Purchase energy efficient products 2.Use energy efficient light bulbs						1-3 years		

Activity type	Description of activity	Estimated annual CO2e savings (metric tonnes CO2e)	Scope	Voluntary/ Mandatory	Annual monetary savings (unit currency - as specified in CC0.4)	Investment required (unit currency - as specified in CC0.4)	Payback period	Estimated lifetime of the initiative	Comment
Building fabric									
Energy efficiency: Building services	Smart building and Control temperature Advantech built the Linkou green building and implement Intelligent Building Energy Management to perform effective green energy management. Please refer the attachment report for detail reference.						1-3 years		
Transportation: use	Greater use of public transportation						1-3 years		
Product design	1. Energy Star Certification 2. WEEE 3R design						1-3 years		
Behavioral change	1.Promote use of stairs instead of elevators 2.Turn off lights when not in use						1-3 years		

CC3.3c

What methods do you use to drive investment in emissions reduction activities?

Method	Comment
Compliance with regulatory	EU ErP Directive, Energy Star, ISO14064, PAS2050

Method	Comment
requirements/standards	
Dedicated budget for energy efficiency	Purchase energy efficient products
Dedicated budget for low carbon product R&D	EU ErP Directive, Energy Star, ISO14064, PAS2050 certificaion budget
Employee engagement	Control building temperature, Use energy efficient light bulbs , Promote use of stairs instead of elevators, Turn off lights when not in use, Greater use of public transportation
Financial optimization calculations	Budget review
Internal price of carbon	electricity CO2
Internal incentives/recognition programs	Advantech Energy Efficiency Programs
Partnering with governments on technology development	Energy efficiency products development

CC3.3d

If you do not have any emissions reduction initiatives, please explain why not

Further Information

1. Attached "2014 Advantech GHG Analysis_201506.xls"2. Please refer our 2014 CSR report as attachment, in that Chapter 4 is for environment. 3. Please refer Advantech Intelligent building solution report

Attachments

[https://www.cdp.net/sites/2015/30/21330/Climate Change 2015/Shared Documents/Attachments/ClimateChange2015/CC3.TargetsandInitiatives/Advantech intelligent Building Solution_For CDP_201506.pdf](https://www.cdp.net/sites/2015/30/21330/Climate%20Change%202015/Shared%20Documents/Attachments/ClimateChange2015/CC3.TargetsandInitiatives/Advantech%20intelligent%20Building%20Solution_For%20CDP_201506.pdf)

[https://www.cdp.net/sites/2015/30/21330/Climate Change 2015/Shared Documents/Attachments/ClimateChange2015/CC3.TargetsandInitiatives/Advantech CSR report- Chap 4 Environmental management.pdf](https://www.cdp.net/sites/2015/30/21330/Climate%20Change%202015/Shared%20Documents/Attachments/ClimateChange2015/CC3.TargetsandInitiatives/Advantech%20CSR%20report-Chapter%204%20Environmental%20management.pdf)

[https://www.cdp.net/sites/2015/30/21330/Climate Change 2015/Shared Documents/Attachments/ClimateChange2015/CC3.TargetsandInitiatives/2014 Advantech GHG Analysis_201506.xls](https://www.cdp.net/sites/2015/30/21330/Climate%20Change%202015/Shared%20Documents/Attachments/ClimateChange2015/CC3.TargetsandInitiatives/2014%20Advantech%20GHG%20Analysis_201506.xls)

Page: CC4. Communication

CC4.1

Have you published information about your organization’s response to climate change and GHG emissions performance for this reporting year in places other than in your CDP response? If so, please attach the publication(s)

Publication	Status	Page/Section reference	Attach the document
In voluntary communications	Complete	CSR report/ Chapter 4. Environment	https://www.cdp.net/sites/2015/30/21330/Climate Change 2015/Shared Documents/Attachments/CC4.1/Advantech CSR report- Chap 4 Environmental management.pdf

Further Information

Advantech CSR Website: <http://www.advantech.com/csr/default.aspx>

Module: Risks and Opportunities

Page: CC5. Climate Change Risks

CC5.1

Have you identified any inherent climate change risks that have the potential to generate a substantive change in your business operations, revenue or expenditure? Tick all that apply

- Risks driven by changes in regulation
- Risks driven by changes in physical climate parameters
- Risks driven by changes in other climate-related developments

CC5.1a

Please describe your inherent risks that are driven by changes in regulation

Risk driver	Description	Potential impact	Timeframe	Direct/ Indirect	Likelihood	Magnitude of impact	Estimated financial implications	Management method	Cost of management
International agreements	1. 1997 Kyoto Protocol 2. 2009 Copenhagen Accord	Wider social disadvantages		Indirect (Client)	Virtually certain	Medium			
Air pollution limits	air pollution	Wider social disadvantages		Direct	Virtually certain	Low			
Carbon taxes	Carbon taxes of manufacturing sites	Increased operational cost		Direct	Likely	Medium			
Cap and trade schemes	Wal-Mart, the world's largest retailer, also announced in 2009 it would require all suppliers to place eco-labels on their products within 5 years.	Reduction/disruption in production capacity		Direct	Virtually certain	Medium-high			
Emission reporting obligations	Wal-Mart, the world's largest retailer, also announced in 2009 it would require all suppliers to place eco-labels on their products within 5 years.	Reduction/disruption in production capacity		Direct	Virtually certain	Medium-high			
Fuel/energy taxes and	Fuel/energy cost	Increased operational cost		Direct	Virtually certain	Medium			

Risk driver	Description	Potential impact	Timeframe	Direct/ Indirect	Likelihood	Magnitude of impact	Estimated financial implications	Management method	Cost of management
regulations									
Product efficiency regulations and standards	EU ErP Directive, Energy Star standard... etc.	Reduced demand for goods/services		Direct	Virtually certain	High			
Product labelling regulations and standards	CE, Energy Star.. etc.	Reduced demand for goods/services		Direct	Virtually certain	High			
Voluntary agreements	agreement with customer	Reduced demand for goods/services		Direct	Very likely	High			
General environmental regulations, including planning	EU ErP Directive, ISO 14064, PAS 2050, ISO 14067..etc.	Reduced demand for goods/services		Direct	Virtually certain	High			

CC5.1b

Please describe your inherent risks that are driven by change in physical climate parameters

Risk driver	Description	Potential impact	Timeframe	Direct/ Indirect	Likelihood	Magnitude of impact	Estimated financial implications	Management method	Cost of management
Change in precipitation pattern	earthquake	Increased capital cost		Direct	Likely	High			
Tropical cyclones (hurricanes and	typhoon	Increased capital cost		Direct	Likely	Medium-high			

Risk driver	Description	Potential impact	Timeframe	Direct/ Indirect	Likelihood	Magnitude of impact	Estimated financial implications	Management method	Cost of management
typhoons)									
Induced changes in natural resources	radiation materials from Japan	Increased capital cost		Indirect (Supply chain)	Likely	Medium			
Uncertainty of physical risks	influenza pandemic	Reduction in capital availability		Direct	Likely	Medium			

CC5.1c

Please describe your inherent risks that are driven by changes in other climate-related developments

Risk driver	Description	Potential impact	Timeframe	Direct/ Indirect	Likelihood	Magnitude of impact	Estimated financial implications	Management method	Cost of management
Reputation	CSR Reputation	Inability to do business		Direct	Very likely	High			
Changing consumer behaviour	Global environmental regulations change customer behaviour	Reduced demand for goods/services		Direct	Very likely	Medium-high			
Fluctuating socio-economic conditions	Fuel/energy cost	Increased operational cost		Direct	Virtually certain	Medium			
Increasing humanitarian demands	Electronic Industry Citizenship Coalition (EICC)	Wider social disadvantages		Direct	Virtually certain	Medium			
Uncertainty in market signals	Wal-Mart, the world's largest retailer, also announced in 2009 it	Reduced demand for goods/services		Direct	Very likely	Medium-high			

Risk driver	Description	Potential impact	Timeframe	Direct/ Indirect	Likelihood	Magnitude of impact	Estimated financial implications	Management method	Cost of management
	would require all suppliers to place eco-labels on their products within 5 years.								

CC5.1d

Please explain why you do not consider your company to be exposed to inherent risks driven by changes in regulation that have the potential to generate a substantive change in your business operations, revenue or expenditure

CC5.1e

Please explain why you do not consider your company to be exposed to inherent risks driven by physical climate parameters that have the potential to generate a substantive change in your business operations, revenue or expenditure

CC5.1f

Please explain why you do not consider your company to be exposed to inherent risks driven by changes in other climate-related developments that have the potential to generate a substantive change in your business operations, revenue or expenditure

Further Information

Attached Advantech BCP (Business Continuity Plan)

Attachments

[https://www.cdp.net/sites/2015/30/21330/Climate Change 2015/Shared Documents/Attachments/ClimateChange2015/CC5.ClimateChangeRisks/E-009_Advantech Business Continuity Plan_A0.pdf](https://www.cdp.net/sites/2015/30/21330/Climate%20Change%202015/Shared%20Documents/Attachments/ClimateChange2015/CC5.ClimateChangeRisks/E-009_Advantech%20Business%20Continuity%20Plan_A0.pdf)

Page: CC6. Climate Change Opportunities

CC6.1

Have you identified any inherent climate change opportunities that have the potential to generate a substantive change in your business operations, revenue or expenditure? Tick all that apply

- Opportunities driven by changes in regulation
- Opportunities driven by changes in physical climate parameters
- Opportunities driven by changes in other climate-related developments

CC6.1a

Please describe your inherent opportunities that are driven by changes in regulation

Opportunity driver	Description	Potential impact	Timeframe	Direct/Indirect	Likelihood	Magnitude of impact	Estimated financial implications	Management method	Cost of management
International agreements	1. 1997 Kyoto Protocol 2. 2009	Reduced operational costs		Direct	Virtually certain	Medium			

Opportunity driver	Description	Potential impact	Timeframe	Direct/Indirect	Likelihood	Magnitude of impact	Estimated financial implications	Management method	Cost of management
	Copenhagen Accord								
Air pollution limits	Air pollution	Wider social benefits		Direct	Virtually certain	Low			
Carbon taxes	Carbon taxes of manufacturing sites	Reduced operational costs		Direct	Very likely	Medium			
Cap and trade schemes	Wal-Mart, the world's largest retailer, also announced in 2009 it would require all suppliers to place eco-labels on their products within 5 years.	Increased demand for existing products/services		Direct	Very likely	Medium-high			
Emission reporting obligations	Wal-Mart, the world's largest retailer, also announced in 2009 it would require all suppliers to place eco-labels on their products within 5 years.	Increased demand for existing products/services		Direct	Very likely	Medium-high			
Fuel/energy taxes and regulations	Fuel/energy cost	Reduced operational costs		Direct	Virtually certain	Medium			
Product efficiency regulations	EU ErP Directive, Energy Star	New products/business services		Direct	Virtually certain	High			

Opportunity driver	Description	Potential impact	Timeframe	Direct/Indirect	Likelihood	Magnitude of impact	Estimated financial implications	Management method	Cost of management
and standards	standard... etc.								
	CE, Energy Star standard... etc.	New products/business services		Direct	Virtually certain	High			
Voluntary agreements	agreement with customer	New products/business services		Direct	Very likely	High			
General environmental regulations, including planning	EU ErP Directive, ISO 14064, PAS 2050, ISO 14067..etc.	Increased demand for existing products/services		Direct	Virtually certain	High			

CC6.1b

Please describe the inherent opportunities that are driven by changes in physical climate parameters

Opportunity driver	Description	Potential impact	Timeframe	Direct/Indirect	Likelihood	Magnitude of impact	Estimated financial implications	Management method	Cost of management
Change in precipitation pattern	earthquake, typhoon	Reduced capital costs		Direct	Virtually certain	High			
Change in precipitation extremes and droughts	Fuel/energy cost	Reduced operational costs		Indirect (Supply chain)	Very likely	Medium-high			
Change in mean (average) temperature	Carbon taxes	Reduced operational costs		Direct	Very likely	Medium			

Opportunity driver	Description	Potential impact	Timeframe	Direct/ Indirect	Likelihood	Magnitude of impact	Estimated financial implications	Management method	Cost of management
Induced changes in natural resources	Materials, Fuel, Energy...	Increased stock price (market valuation)		Indirect (Supply chain)	Very likely	Medium			

CC6.1c

Please describe the inherent opportunities that are driven by changes in other climate-related developments

Opportunity driver	Description	Potential impact	Timeframe	Direct/ Indirect	Likelihood	Magnitude of impact	Estimated financial implications	Management method	Cost of management
Changing consumer behaviour	Energy efficiency product development			Direct	Virtually certain	High			
	Energy efficiency product development			Direct	Virtually certain	High			
Reputation	Environment protection activities			Direct	Very likely	Medium-high			
Increasing humanitarian demands	Environment protection activities			Direct	Very likely	Medium-high			

CC6.1d

Please explain why you do not consider your company to be exposed to inherent opportunities driven by changes in regulation that have the potential to generate a substantive change in your business operations, revenue or expenditure

CC6.1e

Please explain why you do not consider your company to be exposed to inherent opportunities driven by physical climate parameters that have the potential to generate a substantive change in your business operations, revenue or expenditure

CC6.1f

Please explain why you do not consider your company to be exposed to inherent opportunities driven by changes in other climate-related developments that have the potential to generate a substantive change in your business operations, revenue or expenditure

Further Information

Module: GHG Emissions Accounting, Energy and Fuel Use, and Trading

Page: CC7. Emissions Methodology

CC7.1

Please provide your base year and base year emissions (Scopes 1 and 2)

Scope	Base year	Base year emissions (metric tonnes CO2e)
Scope 1	Wed 01 Jan 2014 - Wed 31 Dec 2014	260.2
Scope 2	Wed 01 Jan 2014 - Wed 31 Dec 2014	7911

CC7.2

Please give the name of the standard, protocol or methodology you have used to collect activity data and calculate Scope 1 and Scope 2 emissions

Please select the published methodologies that you use
ISO 14064-1

CC7.2a

If you have selected "Other" in CC7.2 please provide details of the standard, protocol or methodology you have used to collect activity data and calculate Scope 1 and Scope 2 emissions

CC7.3

Please give the source for the global warming potentials you have used

Gas	Reference
CO2	IPCC Fourth Assessment Report (AR4 - 100 year)
CH4	IPCC Fourth Assessment Report (AR4 - 100 year)
N2O	IPCC Fourth Assessment Report (AR4 - 100 year)
HFCs	IPCC Fourth Assessment Report (AR4 - 100 year)

CC7.4

Please give the emissions factors you have applied and their origin; alternatively, please attach an Excel spreadsheet with this data at the bottom of this page

Fuel/Material/Energy	Emission Factor	Unit	Reference
Electricity	0.522	metric tonnes CO2e per MWh	
Diesel/Gas oil	2.263	kg CO2e per liter	
Cooling	1430	metric tonnes CO2 per metric tonne	

Further Information

Attached "2014 Advantech GHG Analysis_201506.xls"

Attachments

https://www.cdp.net/sites/2015/30/21330/Climate Change 2015/Shared Documents/Attachments/ClimateChange2015/CC7.EmissionsMethodology/2014 Advantech GHG Analysis_201506.xls

CC8.1

Please select the boundary you are using for your Scope 1 and 2 greenhouse gas inventory

Financial control

CC8.2

Please provide your gross global Scope 1 emissions figures in metric tonnes CO₂e

260.2

CC8.3

Please provide your gross global Scope 2 emissions figures in metric tonnes CO₂e

7911

CC8.4

Are there any sources (e.g. facilities, specific GHGs, activities, geographies, etc.) of Scope 1 and Scope 2 emissions that are within your selected reporting boundary which are not included in your disclosure?

No

CC8.4a

Please provide details of the sources of Scope 1 and Scope 2 emissions that are within your selected reporting boundary which are not included in your disclosure

Source	Relevance of Scope 1 emissions from this source	Relevance of Scope 2 emissions excluded from this source	Explain why the source is excluded
--------	---	--	------------------------------------

CC8.5

Please estimate the level of uncertainty of the total gross global Scope 1 and 2 emissions figures that you have supplied and specify the sources of uncertainty in your data gathering, handling and calculations

Scope	Uncertainty range	Main sources of uncertainty	Please expand on the uncertainty in your data
Scope 1	More than 2% but less than or equal to 5%	Metering/ Measurement Constraints	Uncertainty in Emission Factor
Scope 2	More than 2% but less than or equal to 5%	Metering/ Measurement Constraints	Uncertainty in Emission Factor

CC8.6

Please indicate the verification/assurance status that applies to your reported Scope 1 emissions

Third party verification underway but not yet complete – first year it has taken place

CC8.6a

Please provide further details of the verification/assurance undertaken for your Scope 1 emissions, and attach the relevant statements

Type of verification or assurance	Attach the statement	Page/section reference	Relevant standard	Proportion of reported Scope 1 emissions verified (%)
Third party verification/assurance underway	https://www.cdp.net/sites/2015/30/21330/Climate Change 2015/Shared Documents/Attachments/CC8.6a/ISO14064 GHG 2008 Verification Statement.pdf	Advantech is applying CSR GR4 certification, SGS will perform on side audit in the end of July, 2015.	ISO14064-3	

CC8.6b

Please provide further details of the regulatory regime to which you are complying that specifies the use of Continuous Emissions Monitoring Systems (CEMS)

Regulation	% of emissions covered by the system	Compliance period	Evidence of submission
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CC8.7

Please indicate the verification/assurance status that applies to your reported Scope 2 emissions

Third party verification underway but not yet complete – first year it has taken place

CC8.7a

Please provide further details of the verification/assurance undertaken for your Scope 2 emissions, and attach the relevant statements

Type of verification or assurance	Attach the statement	Page/Section reference	Relevant standard	Proportion of reported Scope 2 emissions verified (%)
High assurance	https://www.cdp.net/sites/2015/30/21330/Climate Change 2015/Shared Documents/Attachments/CC8.7a/ISO14064 GHG 2008 Verification Statement.pdf	Advantech is applying CSR GR4 certification, SGS will perform on side audit in the end of July, 2015.	ISO14064-3	

CC8.8

Please identify if any data points have been verified as part of the third party verification work undertaken, other than the verification of emissions figures reported in CC8.6, CC8.7 and CC14.2

Additional data points verified	Comment
Year on year change in emissions (Scope 1 and 2)	please refer Further Information for attached "GRI A+ Assurance Statement_EN.pdf".
Product footprint verification	please refer Further Information for attached "Product Carbon Footprint Certification Statement.pdf".

CC8.9

Are carbon dioxide emissions from biologically sequestered carbon relevant to your organization?

No

CC8.9a

Please provide the emissions from biologically sequestered carbon relevant to your organization in metric tonnes CO2

Further Information

1. Attached "Product Carbon Footprint Certification Statement.pdf". 2. Attached "GRI A+ Assurance Statement_EN.pdf". 3. Attached "2014 Advantech GHG Analysis_201506.xls"

Attachments

[https://www.cdp.net/sites/2015/30/21330/Climate Change 2015/Shared Documents/Attachments/ClimateChange2015/CC8.EmissionsData\(1Jan2014-31Dec2014\)/GRI A+ Assurance Statement_EN.pdf](https://www.cdp.net/sites/2015/30/21330/Climate%20Change%202015/Shared%20Documents/Attachments/ClimateChange2015/CC8.EmissionsData(1Jan2014-31Dec2014)/GRI%20A%20Assurance%20Statement_EN.pdf)

[https://www.cdp.net/sites/2015/30/21330/Climate Change 2015/Shared Documents/Attachments/ClimateChange2015/CC8.EmissionsData\(1Jan2014-31Dec2014\)/2014 Advantech GHG Analysis_201506.xls](https://www.cdp.net/sites/2015/30/21330/Climate%20Change%202015/Shared%20Documents/Attachments/ClimateChange2015/CC8.EmissionsData(1Jan2014-31Dec2014)/2014%20Advantech%20GHG%20Analysis_201506.xls)

[https://www.cdp.net/sites/2015/30/21330/Climate Change 2015/Shared Documents/Attachments/ClimateChange2015/CC8.EmissionsData\(1Jan2014-31Dec2014\)/Product Carbon Footprint Certification Statement.pdf](https://www.cdp.net/sites/2015/30/21330/Climate%20Change%202015/Shared%20Documents/Attachments/ClimateChange2015/CC8.EmissionsData(1Jan2014-31Dec2014)/Product%20Carbon%20Footprint%20Certification%20Statement.pdf)

Page: CC9. Scope 1 Emissions Breakdown - (1 Jan 2014 - 31 Dec 2014)

CC9.1

Do you have Scope 1 emissions sources in more than one country?

No

CC9.1a

Please break down your total gross global Scope 1 emissions by country/region

Country/Region	Scope 1 metric tonnes CO2e
----------------	----------------------------

CC9.2

Please indicate which other Scope 1 emissions breakdowns you are able to provide (tick all that apply)

- By facility
- By GHG type

CC9.2a

Please break down your total gross global Scope 1 emissions by business division

Business division	Scope 1 emissions (metric tonnes CO2e)
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CC9.2b

Please break down your total gross global Scope 1 emissions by facility

Facility	Scope 1 emissions (metric tonnes CO2e)	Latitude	Longitude
Taiwan	260.2		

CC9.2c

Please break down your total gross global Scope 1 emissions by GHG type

GHG type	Scope 1 emissions (metric tonnes CO2e)
CH4	253.98
N2O	
HFCs	6.28
PFCs	
SF6	
CO2	

CC9.2d

Please break down your total gross global Scope 1 emissions by activity

Activity	Scope 1 emissions (metric tonnes CO2e)

CC9.2e

Please break down your total gross global Scope 1 emissions by legal structure

Legal structure	Scope 1 emissions (metric tonnes CO2e)
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Further Information

Attached "2014 Advantech GHG Analysis_201506.xls"

Attachments

[https://www.cdp.net/sites/2015/30/21330/Climate Change 2015/Shared Documents/Attachments/ClimateChange2015/CC9.Scope1EmissionsBreakdown\(1Jan2014-31Dec2014\)/2014 Advantech GHG Analysis_201506.xls](https://www.cdp.net/sites/2015/30/21330/Climate%20Change%202015/Shared%20Documents/Attachments/ClimateChange2015/CC9.Scope1EmissionsBreakdown(1Jan2014-31Dec2014)/2014%20Advantech%20GHG%20Analysis_201506.xls)

Page: CC10. Scope 2 Emissions Breakdown - (1 Jan 2014 - 31 Dec 2014)

CC10.1

Do you have Scope 2 emissions sources in more than one country?

No

CC10.1a

Please break down your total gross global Scope 2 emissions and energy consumption by country/region

Country/Region	Scope 2 metric tonnes CO2e	Purchased and consumed electricity, heat, steam or cooling (MWh)	Purchased and consumed low carbon electricity, heat, steam or cooling accounted for in CC8.3 (MWh)
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CC10.2

Please indicate which other Scope 2 emissions breakdowns you are able to provide (tick all that apply)

- By facility
- By activity

CC10.2a

Please break down your total gross global Scope 2 emissions by business division

Business division	Scope 2 emissions (metric tonnes CO2e)
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CC10.2b

Please break down your total gross global Scope 2 emissions by facility

Facility	Scope 2 emissions (metric tonnes CO2e)
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Facility	Scope 2 emissions (metric tonnes CO2e)
Taiwan	7911

CC10.2c

Please break down your total gross global Scope 2 emissions by activity

Activity	Scope 2 emissions (metric tonnes CO2e)
Electricity	7911

CC10.2d

Please break down your total gross global Scope 2 emissions by legal structure

Legal structure	Scope 2 emissions (metric tonnes CO2e)
-----------------	--

Further Information

Attached "2014 Advantech GHG Analysis_201506.xls"

Attachments

[https://www.cdp.net/sites/2015/30/21330/Climate Change 2015/Shared Documents/Attachments/ClimateChange2015/CC10.Scope2EmissionsBreakdown\(1Jan2014-31Dec2014\)/2014 Advantech GHG Analysis_201506.xls](https://www.cdp.net/sites/2015/30/21330/Climate%20Change%202015/Shared%20Documents/Attachments/ClimateChange2015/CC10.Scope2EmissionsBreakdown(1Jan2014-31Dec2014)/2014%20Advantech%20GHG%20Analysis_201506.xls)

CC11.1

What percentage of your total operational spend in the reporting year was on energy?

More than 95% but less than or equal to 100%

CC11.2

Please state how much fuel, electricity, heat, steam, and cooling in MWh your organization has purchased and consumed during the reporting year

Energy type	MWh
Fuel	40
Electricity	15155
Heat	0
Steam	0
Cooling	3

CC11.3

Please complete the table by breaking down the total "Fuel" figure entered above by fuel type

Fuels	MWh
Diesel/Gas oil	

CC11.4

Please provide details of the electricity, heat, steam or cooling amounts that were accounted at a low carbon emission factor in the Scope 2 figure reported in CC8.3

Basis for applying a low carbon emission factor	MWh associated with low carbon electricity, heat, steam or cooling	Comment
Tracking instruments, Guarantees of Origin		

Further Information

1.Attached "2014 Advantech GHG Analysis_201506.xls" 2.Please refer our 2014 CSR report as attachment, in that Chapter 4 is for environment (page40 for carbon emission).

Attachments

https://www.cdp.net/sites/2015/30/21330/Climate Change 2015/Shared Documents/Attachments/ClimateChange2015/CC11.Energy/2014 Advantech GHG Analysis_201506.xls

<https://www.cdp.net/sites/2015/30/21330/Climate Change 2015/Shared Documents/Attachments/ClimateChange2015/CC11.Energy/Advantech CSR report- Chap 4 Environmental management.pdf>

Page: CC12. Emissions Performance

CC12.1

How do your gross global emissions (Scope 1 and 2 combined) for the reporting year compare to the previous year?

Increased

CC12.1a

Please identify the reasons for any change in your gross global emissions (Scope 1 and 2 combined) and for each of them specify how your emissions compare to the previous year

Reason	Emissions value (percentage)	Direction of change	Comment
Emissions reduction activities	28.9	Decrease	2013 : Emissions in scope 2= 7162 tones CO2e, 2077 employees (7162/2077= 3.448) 2014 : Emissions in scope 2= 7911 tones CO2e, 3229 employees (7911/3229=2.449) Reduction target is (3.448-2.449)/3.448=28.9%
Divestment		No change	
Acquisitions		No change	
Mergers		No change	
Change in output		Increase	Since Advantech built new Linkou building.
Change in methodology		No change	
Change in boundary		Increase	Since Advantech built new Linkou building.
Change in physical operating conditions		No change	
Unidentified		No change	
Other		No change	

CC12.2

Please describe your gross global combined Scope 1 and 2 emissions for the reporting year in metric tonnes CO2e per unit currency total revenue

Intensity figure	Metric numerator	Metric denominator	% change from previous year	Direction of change from previous year	Reason for change
7.6	metric tonnes CO2e	unit total revenue	3.7	Decrease	1.2013: (Emissions) / (total revenue) = (7374 ton CO2) / (1025 M,USD) = 7.19 (ton CO2/ M,USD) 2. 2014: (Emissions) / (total revenue) = (8171 ton CO2) /

Intensity figure	Metric numerator	Metric denominator	% change from previous year	Direction of change from previous year	Reason for change
					(1180 M,USD) = 6.92 (ton CO2/ M,USD) 3. Reduction % = (6.92-7.19) / (7.19) = 3.7%

CC12.3

Please describe your gross global combined Scope 1 and 2 emissions for the reporting year in metric tonnes CO2e per full time equivalent (FTE) employee

Intensity figure	Metric numerator	Metric denominator	% change from previous year	Direction of change from previous year	Reason for change
3.7	metric tonnes CO2e	FTE employee	28.7	Decrease	1. 2013: (Emissions) / (Number of Employee) = (7374 ton CO2) / (2077 capita) = 3.55(ton CO2/ ppl) 2. 2014: (Emissions) / (Number of Employee) = (8171 ton CO2) / (3229 capita) = 2.53(ton CO2/ ppl) 3. Reduction % = (2.53- 3.55) / 3.55 = 28.7%

CC12.4

Please provide an additional intensity (normalized) metric that is appropriate to your business operations

Intensity figure	Metric numerator	Metric denominator	% change from previous year	Direction of change from previous year	Reason for change
0.006	metric tonnes CO2e	unit of production	64.9	Decrease	1.. 2013: (Emissions) / (Number of products produced) = (7374000 Kg CO2) / (1093433 pcs) = 6.74 (Kg CO2/ pcs) 2. 2014: (Emissions) / (Number of products produced) = (8171000 Kg CO2) / (3459934 pcs) =2.36 (Kg CO2/ pcs) 3. Reduction % = (2.36-6.74) / (6.74) = 64.9%

Further Information

Attached "2014 Advantech GHG Analysis_201506.xls"

Attachments

https://www.cdp.net/sites/2015/30/21330/Climate Change 2015/Shared Documents/Attachments/ClimateChange2015/CC12.EmissionsPerformance/2014 Advantech GHG Analysis_201506.xls

Page: CC13. Emissions Trading

CC13.1

Do you participate in any emissions trading schemes?

No, and we do not currently anticipate doing so in the next 2 years

CC13.1a

Please complete the following table for each of the emission trading schemes in which you participate

Scheme name	Period for which data is supplied	Allowances allocated	Allowances purchased	Verified emissions in metric tonnes CO2e	Details of ownership
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CC13.1b

What is your strategy for complying with the schemes in which you participate or anticipate participating?

CC13.2

Has your organization originated any project-based carbon credits or purchased any within the reporting period?

No

CC13.2a

Please provide details on the project-based carbon credits originated or purchased by your organization in the reporting period

Credit origination or credit purchase	Project type	Project identification	Verified to which standard	Number of credits (metric tonnes of CO2e)	Number of credits (metric tonnes CO2e): Risk adjusted volume	Credits cancelled	Purpose, e.g. compliance
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Further Information

CC14.1

Please account for your organization's Scope 3 emissions, disclosing and explaining any exclusions

Sources of Scope 3 emissions	Evaluation status	metric tonnes CO2e	Emissions calculation methodology	Percentage of emissions calculated using data obtained from suppliers or value chain partners	Explanation
Purchased goods and services	Not relevant, calculated				
Capital goods	Not relevant, calculated				
Fuel-and-energy-related activities (not included in Scope 1 or 2)	Not relevant, calculated				
Upstream transportation and distribution	Not relevant, calculated				
Waste generated in operations	Not relevant, calculated				
Business travel	Relevant, not yet calculated				
Employee commuting	Relevant, not yet calculated				
Upstream leased assets	Not relevant, calculated				
Downstream transportation and distribution	Not relevant, calculated				
Processing of sold products	Not relevant, calculated				
Use of sold products	Not relevant, calculated				
End of life treatment of sold products	Not relevant, calculated				
Downstream leased assets	Not relevant, calculated				

Sources of Scope 3 emissions	Evaluation status	metric tonnes CO2e	Emissions calculation methodology	Percentage of emissions calculated using data obtained from suppliers or value chain partners	Explanation
Franchises	Not relevant, calculated				
Investments	Not relevant, calculated				
Other (upstream)	Not relevant, calculated				
Other (downstream)	Not evaluated				

CC14.2

Please indicate the verification/assurance status that applies to your reported Scope 3 emissions

No emissions data provided

CC14.2a

Please provide further details of the verification/assurance undertaken, and attach the relevant statements

Type of verification or assurance	Attach the statement	Page/Section reference	Relevant standard	Proportion of Scope 3 emissions verified (%)

CC14.3

Are you able to compare your Scope 3 emissions for the reporting year with those for the previous year for any sources?

No, we don't have any emissions data

CC14.3a

Please identify the reasons for any change in your Scope 3 emissions and for each of them specify how your emissions compare to the previous year

Sources of Scope 3 emissions	Reason for change	Emissions value (percentage)	Direction of change	Comment
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CC14.4

Do you engage with any of the elements of your value chain on GHG emissions and climate change strategies? (Tick all that apply)

No, we do not engage

CC14.4a

Please give details of methods of engagement, your strategy for prioritizing engagements and measures of success

CC14.4b

To give a sense of scale of this engagement, please give the number of suppliers with whom you are engaging and the proportion of your total spend that they represent

Number of suppliers	% of total spend	Comment
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CC14.4c

If you have data on your suppliers' GHG emissions and climate change strategies, please explain how you make use of that data

How you make use of the data	Please give details
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CC14.4d

Please explain why you do not engage with any elements of your value chain on GHG emissions and climate change strategies, and any plans you have to develop an engagement strategy in the future

Attached GHG verification report to explain that all scope 3 emissions are outsourced, and we cannot control and track the scope 3 emissions

Further Information

Attached GHG verification report to explain that all scope 3 emissions are outsourced, and we cannot control and track the scope 3 emissions

Attachments

<https://www.cdp.net/sites/2015/30/21330/Climate Change 2015/Shared Documents/Attachments/ClimateChange2015/CC14.Scope3Emissions/Advantech GHG verification report.pdf>
<https://www.cdp.net/sites/2015/30/21330/Climate Change 2015/Shared Documents/Attachments/ClimateChange2015/CC14.Scope3Emissions/ISO14064 GHG 2008 Verification Statement.pdf>

Module: Sign Off

Page: CC15. Sign Off

CC15.1

Please provide the following information for the person that has signed off (approved) your CDP climate change response

Name	Job title	Corresponding job category
Deryu Yin/ YS Yang/ NJ LIn	EHS Committe Chief/ Management Representative/ Executer	Board/Executive board

Further Information

Module: ICT

Page: ICT1. Data center activities

ICT0.1a

Please identify whether "data centers" comprise a significant component of your business within your reporting boundary

No

ICT1.1

Please provide a description of the parts of your business that fall under "data centers"

ICT1.2

Please provide your absolute Scope 1 and 2 emissions and electricity consumption for the data centers component of your business

Business activity	Scope 1 emissions (metric tonnes CO2e)	Scope 2 emissions (metric tonnes CO2e)	Annual electricity consumption (MWh)	Electricity data collection method
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ICT1.3

What percentage of your ICT population sits in data centers where Power Usage Effectiveness (PUE) is measured on a regular basis?

Percentage	Comment
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ICT1.4

Please provide a Power Usage Effectiveness (PUE) value for your data center(s). You can provide this information as (a) an average, (b) a range or (c) by individual data center - please tick the data you wish to provide (tick all that apply)

ICT1.4a

Please provide your average PUE across your data centers

Number of data centers	Average PUE	% change from previous year	Direction of change	Comment
------------------------	-------------	-----------------------------	---------------------	---------

ICT1.4b

Please provide the range of PUE values across your data centers

Number of data centers	PUE Minimum Value	% change of PUE Minimum Value from previous year	PUE Maximum Value	% change of PUE Maximum Value from previous year	Direction of change	Comment
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ICT1.4c

Please provide your PUE values of all your data centers

Data center reference	PUE value	% change from previous year	Direction of change	Comment
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ICT1.5

Please provide details of how you have calculated your PUE value

ICT1.6

Do you use any alternative intensity metrics to assess the energy or emissions performance of your data center(s)?

ICT1.6a

Please provide details on the alternative intensity metrics you use to assess the energy or the emissions performance of your data center(s)

ICT1.7

Please identify the measures you are planning or have undertaken in the reporting year to increase the energy efficiency of your data center(s)

Status in reporting year	Energy efficiency measure	Comment
--------------------------	---------------------------	---------

ICT1.8

Do you participate in any other data center efficiency schemes or have buildings that are sustainably certified or rated?

ICT1.8a

Please provide details on the data center efficiency schemes you participate in or the buildings that are sustainably certified or rated

Scheme name	Level/certification (or equivalent) achieved in the reporting year	Percentage of your overall facilities to which the scheme applies
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ICT1.9

Do you measure the utilization rate of your data center(s)?

ICT1.9a

What methodology do you use to calculate the utilization rate of your data center(s)?

ICT1.10

Do you provide carbon emissions data to your clients regarding the data center services they procure?

ICT1.10a

How do you provide carbon emissions data to your clients regarding the data center services they procure?

ICT1.11

Please describe any efforts you have made to incorporate renewable energy into the electricity supply to your data center(s) or to re-use waste heat

Further Information

Page: ICT2. Provision of network/connectivity services

ICT0.1b

Please identify whether "provision of network/connectivity services" comprises a significant component of your business within your reporting boundary

No

ICT2.1

Please provide a description of the parts of your business that fall under "provision of network/connectivity services"

ICT2.2

Please provide your absolute Scope 1 and 2 emissions and electricity consumption for the provision of network/connectivity services component of your business

Business activity	Scope 1 emissions (metric tonnes CO2e)	Scope 2 emissions (metric tonnes CO2e)	Annual electricity consumption (MWh)	Electricity data collection method
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ICT2.3

Please describe your gross combined Scope 1 and 2 emissions or electricity use for the provision of network/connectivity services component of your business as an intensity metric

Intensity figure	Metric numerator	Metric denominator	% change from previous year	Direction of change from previous year	Reason for change
------------------	------------------	--------------------	--------------------------------	---	-------------------

ICT2.4

Please explain how you calculated the intensity figures given in response to Question ICT2.3

ICT2.5

Do you provide carbon emissions data to your clients regarding the network/connectivity services they procure?

ICT2.5a

How do you provide carbon emissions data to your clients regarding the network/connectivity services they procure?

Further Information

Page: ICT3. Manufacture or assembly of hardware/components

ICT0.1c

Please identify whether "manufacture or assembly of hardware/components" comprises a significant part of your business within your reporting boundary

No

ICT3.1

Please provide a description of the parts of your business that fall under "manufacture or assembly of hardware/components"

ICT3.2

Please provide your absolute Scope 1 and 2 emissions and electricity consumption for the manufacture or assembly of hardware/components part of your business

Business activity	Scope 1 emissions (metric tonnes CO2e)	Scope 2 emissions (metric tonnes CO2e)	Annual electricity consumption (MWh)	Electricity data collection method
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ICT3.3

Please identify the percentage of your products meeting recognized energy efficiency standards/specifications by sales weighted volume (full product range)

Product type	Standard (sleep mode)	Percentage of products meeting the standard by sales volume (sleep mode)	Standard (standby mode)	Percentage of products meeting the standard by sales volume (standby mode)	Standard (in use mode)	Percentage of products meeting the standard by sales volume (in use mode)	Comment
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ICT3.4

Of the new products released in the reporting year, please identify the percentage (as a percentage of all new products in that product type category) that meet recognized energy efficiency standards/specifications

Product type	Standard (sleep mode)	Percentage of new products meeting the standard (sleep mode)	Standard (standby mode)	Percentage of new products meeting the standard (standby mode)	Standard (in use mode)	Percentage of new products meeting the standard (in use mode)	Comment
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ICT3.5

Please describe the efforts your organization has made to improve the energy efficiency of your products

ICT3.6

Please describe the GHG emissions abatement measures you have employed specifically in your ICT manufacturing operations

ICT3.7

Do you provide carbon emissions data to your clients regarding the hardware/component products they procure?

ICT3.7a

How do you provide carbon emissions data to your clients regarding the hardware/component products they procure?

Further Information

Page: ICT4. Manufacture of software

ICT0.1d

Please identify whether "manufacture of software" comprises a significant component of your business within your reporting boundary

No

ICT4.1

Please provide a description of the parts of your business that fall under "manufacture of software"

ICT4.2

Please provide your absolute Scope 1 and 2 emissions and electricity consumption for the software manufacture component of your business

Business activity	Scope 1 emissions (metric tonnes CO2e)	Scope 2 emissions (metric tonnes CO2e)	Annual electricity consumption (MWh)	Electricity data collection method
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ICT4.3

Please describe your gross combined Scope 1 and 2 emissions for the software manufacture component of your business in metric tonnes CO2e per unit of production

Intensity figure	Metric numerator	Metric denominator	% change from previous year	Direction of change from previous year	Reason for change
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ICT4.4

What percentage of your software sales (by volume) is in an electronic format?

ICT4.5

Do you provide carbon emissions data to your clients regarding the software products they procure?

ICT4.5a

How do you provide carbon emissions data to your clients regarding the software products they procure?

Further Information

Page: ICT5. Business services (office based activities)

ICT0.1e

Please identify whether "business services (office based activities)" comprise a significant component of your business within your reporting boundary

No

ICT5.1

Please provide a description of the parts of your business that fall under "business services (office based activities)"

ICT5.2

Please provide your absolute Scope 1 and 2 emissions and electricity consumption for the business services (office based activities) component of your business

Business activity	Scope 1 emissions (metric tonnes CO2e)	Scope 2 emissions (metric tonnes CO2e)	Annual electricity consumption (MWh)	Electricity data collection method
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ICT5.3

Please describe your gross combined Scope 1 and 2 emissions for the business services (office based activities) component of your business in metric tonnes per square meter

Intensity figure	Metric numerator	Metric denominator	% change from previous year	Direction of change from previous year	Reason for change
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ICT5.4

Please describe your electricity use for the provision of business services (office based activities) component of your business in MWh per square meter

Intensity figure	Metric numerator	Metric denominator	% change from previous year	Direction of change from previous year	Reason for change
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Further Information

Page: ICT6. Other activities

ICT0.1f

Please identify whether "other activities" comprise a significant component of your business within your reporting boundary

No

ICT6.1

Please provide a description of the parts of your business that fall under "other"

ICT6.2

Please provide your absolute Scope 1 and 2 emissions and electricity consumption for the identified other activity component of your business

Activity	Scope 1 emissions (metric tonnes CO2e)	Scope 2 emissions (metric tonnes CO2e)	Annual electricity consumption (MWh)	Electricity data collection method
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ICT6.3

Please describe your gross combined Scope 1 and 2 emissions for your defined additional activity using an appropriate activity based intensity metric

Activity	Intensity figure	Metric numerator	Metric denominator	% change from previous year	Direction of change from previous year	Reason for change
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ICT6.4

If appropriate, please describe your electricity use for your defined additional activity using an appropriate activity based intensity metric

Activity	Intensity figure	Metric numerator	Metric denominator	% change from previous year	Direction of change from previous year	Reason for change
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Further Information

CDP 2015 Climate Change 2015 Information Request