

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

Please give a general description and introduction to your organization.

Equinix, Inc. (Nasdaq: EQIX) connects the world's leading businesses to their customers, employees and partners inside the most interconnected data centers. Across five continents, Equinix is where companies come together to realize new opportunities and accelerate their business, IT and cloud strategies.

As the world economy becomes increasingly digitized, businesses require instant, secure, robust global interconnection to collaborate, compete and grow. We've spent 17 years and \$12.5 billion building a global platform that provides exactly the interconnection they need.

Platform Equinix™ includes 145 International Business Exchange™ (IBX®) data centers in 40 metros in 21 countries. Equinix IBX data centers offer much more than just state-of-the-art, carrier-neutral colocation space. Equinix's facilities also host 8,000+ customers from every major industry ecosystem, enabling major networks, enterprises and business partners to interconnect to each other and to more than 1,150+ available networks. These customers have created robust digital ecosystems for cloud, mobility, content and financial services inside Equinix. When customers locate their data in an Equinix data center, they are surrounded by opportunities to make new interconnections across regions and businesses with partners, service providers and networks.

We also give our customers numerous ways to connect, including direct cross connects, peering and cloud services. And every Equinix IBX data center delivers operational expertise, standards compliance and physical security to safeguard our customers' valuable information.

Equinix IBX data centers provide:

**Reliability**—All Equinix IBX data centers are equipped with full UPS power, backup systems and N+1 (or greater) redundancy, with a proven, industry-leading >99.9999% uptime record.

**Power Density**—With robust heating, ventilation and air conditioning systems, Equinix IBX data centers exceed the requirements of even the most power-hungry deployments.

**Security**—Each Equinix IBX data center utilizes an array of security equipment, techniques and procedures to control, monitor and record access to the facility, including individual cages.

Recovery—IBXflex™ Space provides operations centers and storage space when our customers need it. Equinix Smart Hands™ offers 24-hour access to qualified technical support. With Equinix, our customers can maintain mission-critical operations and equipment under any circumstances.

Proven Expertise—We can help our customers configure and support their high-power density deployments. Equinix Professional Services offers practical guidance and proven solutions to help you optimize and future-proof your data center architecture. Our Professional Services experts have decades of specialized data center expertise and hands-on experience in assessing, enabling, migrating, optimizing, planning, designing, testing and deploying IT infrastructure, networks and cloud architectures.

We've built our leading market position on commitments to disciplined global expansion, thriving digital ecosystems and operational excellence. We believe these commitments will allow us to continue to meet our customers' evolving needs in an increasingly digital and interconnected future.

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## 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

Fri 01 Jan 2016 - Sat 31 Dec 2016

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## 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

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### 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.

USD(\$)

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### CC0.6

#### Modules

As part of the request for information on behalf of investors, companies in the electric utility sector, companies in the automobile and auto component manufacturing sector, companies in the oil and gas sector, companies in the information and communications technology sector (ICT) and companies in the food, beverage and tobacco sector (FBT) should complete supplementary questions in addition to the core questionnaire.

If you are in these sector groupings, the corresponding sector modules will not appear among the options of question CC0.6 but will automatically appear in the ORS navigation bar when you save this page. If you want to query your classification, please email [respond@cdp.net](mailto: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 in CC0.6.

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### Further Information

**Module: Management**

**Page: CC1. Governance**

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**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

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**CC1.1a****Please identify the position of the individual or name of the committee with this responsibility**

Since 2014 Equinix has had a formal Corporate Sustainability program. Our President and CEO (Stephen M. Smith) was appointed by the board as the executive sponsor and the program is broken into four key pillars each supported by various members of the Executive staff who serve on a Steering Committee. The four pillars are:

- Environment (supported by Sam Kapoor, Chief Global Operations Officer and Mark Adams, Chief Development Officer)
- People (supported by Debra McCowan, Chief Human Resources Officer)
- Governance (supported by Brandi Galvin Morandi, Chief Legal Officer, General Counsel & Secretary and Keith D. Taylor, Chief Financial Officer)
- Community (supported by Stephen M. Smith, Chief Executive Officer & President and Brian Thomas, Chief of Staff, Office of the CEO)

Notably, as a global data center provider Equinix's most material impact come from its environmental footprint and our large purchases of electric power needed to run our data centers. Therefore our Chief Global Operations Officer (CGOO) Sam Kapoor plays a lead role in determining the direction of our program including overseeing the team responsible for the Program Office and day-to-day management of this program.

Supporting the CGOO is a team of three that comprise the Global Utilities & Sustainability team including a Senior Director (David Rinard), a Manager (Jennifer Ruch who is the day-to-day PMO for the entire Corporate Sustainability program globally and also the key point of contact for the Environment pillar/track), and analyst (Swathy Sajjalgud).

Under the PMO is a Working Team that focuses on day to day execution, meets monthly and reports to the Steering Committee twice a year. With respect to CDP, climate change issues such as energy sourcing and renewable energy procurement fall under the Environment track and thus under our CGOO Sam Kapoor.

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**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
Other: C-Suite officer	Monetary reward	Emissions reduction project Energy reduction project Efficiency target	Chief Global Operations Officer (CGOO) Sam Kapoor is responsible for Global Operations KPIs including performance of the Global Utilities & Sustainability Team and the regional Energy Efficiency Programs (EEPs). Projects range from emissions and energy reduction via technologies, process, and low carbon energy purchasing
Energy managers	Monetary reward	Environmental criteria included in purchases	The Global Utilities & Sustainability Team is responsible for ensuring that low carbon products are evaluated during purchasing
Environment/Sustainability managers	Monetary reward	Emissions reduction target	The Global Utilities & Sustainability team works on energy and sustainability reporting and transparency and toward our long term goal to reach 100% renewable energy throughout our global portfolio thus resulting in zero carbon services for ourselves and our customers. This team is specifically responsible for confronting climate change issues and responding to stakeholders around climate change issues
All employees	Monetary reward	Behavior change related indicator	Equinix participates in a variety of different pre-tax commuter benefit programs where employees are eligible to use pre-tax dollars toward public transportation. And all employees are encouraged to seek local incentives towards biking, carpooling etc.

**Further Information**

Equinix's Corporate Sustainability Report details more around our engagement and management of Climate Change issues

**Attachments**

**Page: CC2. Strategy**

**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	Equinix's risk management team along with its insurers work globally site by site. Each site is rated against top threats and risks specific to each site.	> 6 years	Equinix's enterprise risk management (ERM) process considers both near term and long term risks of climate change as imbedded into procurement, design, and operations. 50-70 individuals globally are surveyed about most pressing risks to the business. This creates a risk map that is used to prioritize and assess risks. Although climate change was not identified as one of the top 23 risks, issues around our power sources and renewable energy does come up. Furthermore, risks such as data center disruption (such as from earthquakes, hurricanes and floods) are prioritized and working with our insurers Equinix takes steps to mitigate/avoid these risks such as increasing floor levels above flood plains, constructing roofs designed to withstand excessive wind speeds, etc. Further information is provided in CC2.1b and CC2.1c.

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**CC2.1b****Please describe how your risk and opportunity identification processes are applied at both company and asset level**

Equinix's Enterprise Risk Management (ERM) team is responsible for evaluating risks, consequences, and implementing ways to minimize the impact of threats and risks at the corporate and asset level. ERM team surveys 50-70 individuals at the board, executive, VP, and director level globally. This creates a risk maps that is used to prioritize and assess; examples of risks include: privacy, REIT conversion, cyber security, financial misstatement, IBX disruption earthquake, hurricane, floods which result from climate change.

At the company level, Business Continuity Program Office (BCPO) adopts industry standard methodologies implemented globally. They identify and evaluate risks e.g. technology failures, natural disasters, disruption of service to customers, and are committed to ensuring that mitigation measures are in place. There are ongoing business continuity-mandated testing protocols.

At the asset level supporting BCPO, Ops deploys global maintenance standards. Our insurance company also has standards. We use: ISO / IEC 27001:2005 and 27001:2013 Information Security (all sites), ISO 22301 Business Continuity (subset of legacy sites and existing sites). Each site has a threat and risk assessment AND a business continuity plan (BCP). BCP for each site covers how we plan to respond, vendors we use, maintenance schedules, fuel delivery schedules, communication plans.

Equinix works with its insurers to reduce the likelihood or impact of threats and risks. We include our insurance co. at the design (new) or due diligence phase (acquired) and assess climate change issues such as hurricanes, floods, earthquakes and environmental quality risks. Decisions such as floor height, underground/above ground storage tanks are made. Involved parties include: Design and Construction, Design Engineering, operations, real estate, GCs , Legal, and risk management. At the corporate and site level we also manage consumption of electricity and our carbon footprint globally.

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**CC2.1c****How do you prioritize the risks and opportunities identified?**

Enterprise Risk Management (ERM) is responsible for identifying and prioritizing the risks to the organization. Once prioritized the Business Continuity Program Office (BCPO) prioritizes and adopts best practices, standards, policies, and processes/SOPs. Every site has a mitigation BCP plan that shows how we will respond to threats – which may include climate change threats such as flood, earthquakes, fires.

Global Power Procurement prioritizes utilities-costs risks through criteria such as market exposure and timing, global commodities market changes, regulatory risks, and issues that may impact energy , fuel prices and aspects of operations. We work closely with other business units (Marketing, Sales) to ensure that our strategy is aligned with what we believe our customers want. We prioritize ensuring that we meet the long terms needs of our customers.

Through our Global Sustainability Program, Global Design Standards Program, and Energy Efficiency Program (EEP), we also prioritize initiatives such as energy efficiency improvements, upgrades, and retrofits including capital expenditures and the deployment of regional and global efficiency standards :

LEED

- Singapore SS564 and BCA-IMDA Green Mark
- CASBEE
- ISO 14001
- ISO 50001

We do this in both existing and new builds. We also prioritize design innovations that reduce our PUE or bring new technologies to our data centers:

- fuel cells (SV5)
- solar (SG3, AM3, and SV10)

- indirect evaporative cooling

Our Global Sustainability Program prioritizes the sustainability and climate change needs of our customers and the related risks and opportunities. Equinix is in the supply chains of the world's biggest companies and for our customers to meet sustainability goals we too must set ambitious goals. We are committed to transparency and we are the only colocation provider to publish a GRI Corporate Sustainability Report.

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#### 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

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#### CC2.2

**Is climate change integrated into your business strategy?**

Yes

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#### CC2.2a

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

- I. At Equinix, our purpose is to protect, connect, and power the digital economy, and we believe that it is important to do this in an environmentally sustainable way. As a global data center provider we consume a large amount of electricity – making our carbon footprint and climate change impact of paramount importance
- II. Our business strategy focuses on designing, building, and operating with high energy efficiency and energy reduction targets set at the local level and with a long-term goal of using 100% clean and renewable energy resulting in emissions reductions and carbon-neutral data center and interconnection services that directly address climate change. Our vision is to be a leader in sustainability. The following show how we are aligning our strategy to address climate change:
  - a. Renewable Energy:
    - i. 100% renewable energy goal (April 2015) and achievement of RE100 goal of 50% by end of 2017 against 2015 baseline
    - ii. Global renewables of 2,077 GWh or 56% coverage stretching across all 3 regions of the world and customers benefit from renewables



at over 100

iii. Market-Based Scope 2 equal to 797,792 mtCO<sub>2</sub>e; decrease from 795,669 reported in 2015 and prior to acquisitions Telecity and Bit-

isle.

1. Carbon intensity 309mtCO<sub>2</sub>e/GWh (2015) to 216 mtCO<sub>2</sub>e/GWh (2016) or 30% decrease

iv. sites

b. Other Work: design standards, energy efficiency, certification, compliance

i. Energy efficiency includes upgrades and retrofits

1. Actively monitoring air flow

2. Optimize cold aisle temperature, chiller efficiency, chilled water flow

3. Motion controlled lighting or LEDs

ii. New design standards

1. Fuel cells (SV5), deep lake water cooling (TR2), solar panels (SG3, AM3)

2. Innovative cooling: indirect evaporative cooling

3. LEED Silver levels for all new builds where possible

iii. Certification / Compliance

1. Standards such as ISO 50001/14001 and local standards (SS 564 in Singapore)

2. U.S. EPA ENERGY STAR data centers

3. Compliance with all state, regional, and country regulations

III. Our strategy was influenced by factors such as: need to control growing energy costs; changing market dynamics in both the regulatory space and customer space; and growth within our industry and need to respond to demands of customers. Our customers depend on us for quality and reliability; and increasingly for sustainability and our ability to help them meeting supply chain climate change goals. Other risks: changing weather patterns more severe storms, temperature extremes, water availability.

IV. Short term strategy: monitor electricity prices (both brown and green) and evaluate contracts for opportunities to source low carbon energy, measure Power Usage Effectiveness (PUE), throughout year monitor location-based and market-based Scope 2 emissions. Global Power Procurement is closely linked to our long term emissions reduction / renewable energy goals.

V. Long term strategy: select energy that will enable the electricity grid of the future –prioritize local and additional renewable energy and actively look for products that lower climate change impact and have lasting impacts on society. In 2015 we signed 225 MW of long term Power Purchase Agreements in Texas and Oklahoma to bring new wind power online. Our 15 year contracts ensure that our long term strategy is aligned with our short term.

VI. Our approach to addressing climate change and moving towards 100% renewables is a strategic advantage. We were the first data center company to announce a 100% goal. While we are not at 100% yet, we are one of the largest players in the space. Customers take advantage of low carbon energy at over 100 data centers. In some places we source 100% renewable already. In 2015 we reported 33.5% coverage and we've grown to 56% in 2016. No other data center company has the depth and breadth of coverage like we do.

VII. In 2016 our most substantial business decisions related to global climate change include:

a. Increased transparency –released our 1st GRI sustainability report (<http://www.equinix.com/company/sustainability/>). We believe that in order to address climate change impact companies must commit to transparency around their impact. We are the only data center company to publish a full sustainability report detailing our impacts across all ESG pillars.

b. Investing in renewables in Asia-Pacific - in 2016 we became the first data center company to purchase large amount of renewable energy certificates and emissions reductions credits in Asia. We know that addressing global climate change is going to take changes throughout the world and we wanted to be first to start down the path in Asia. We purchased IRECs to cover 100% of Hong Kong, and we purchased IRECs and Japanese emission reduction credits to cover 50% of Japan. All this moves our Asia footprint from effectively 0% in 2015 to 35.6% renewable in 2016

c. Acquiring new companies and expanding renewables in EMEA – in 2016 we acquired Telecity which added 34 data centers and 1.1 million sq ft of space nearly doubling our European presence. In 2015 Equinix brought all (100%) of its European load off brown and onto green power. Last year in 2016, we actively worked to move as many Telecity contracts off brown and onto green power. At the end of the 2016 year we were 81.4% renewable; a remarkable accomplishment given our

growth.

VIII. In 2015 we joined the American Business Act on Climate Pledge. We stood with many companies recognizing the importance of the Paris Agreement. We continue to stand by our pledge and our efforts to combat climate change.

IX. At this time Equinix has not looked at forward looking scenario analyses but we do project our own energy into the future and look to address the carbon footprint of our portfolio under business scenarios around growth and investment in renewables and efficiency.

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#### CC2.2b

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

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#### CC2.2c

**Does your company use an internal price on carbon?**

No, but we anticipate doing so in the next 2 years

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#### CC2.2d

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

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#### 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

Trade associations

Other

**CC2.3a**

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

Focus of legislation	Corporate Position	Details of engagement	Proposed legislative solution
Energy efficiency	Support	EU JRC Code of Conduct of Best Practice for Data Centres - Expert Committee annual review of EU Code of Conduct; CENELEC Technical Committee TCT/7/3 for EN 50600 Standards for Data Centres; Medium Combustion Plant Directive (MCPD); EU Industrial Emissions Directive (IED)	Assess requirements, clarify transposition of EU directives into UK law
Clean energy generation	Support	In February 2016 Equinix participated in an "education day" for Virginia (USA) legislators and state regulatory commission staff to communicate how access to affordable renewable energy in the VA market is important to Equinix. Approximately 20 -25% of our load is in VA and it is growing.	We support increased access to renewable energy for corporate buyers either through increases in the state RPS or direct opportunities for procurement

**CC2.3b**

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

Yes

**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?
NAREIT	Unknown	NAREIT does not have a position on climate change legislation or the Paris Agreement. It does support and work on U.S. EPA Energy Star and the U.S. Department of Energy 179D commercial buildings energy efficiency	Equinix interfaces with NAREIT Leader in the Light Sustainability Working Forum through the Real Estate Sustainability Council (RESC) subgroup and we support efforts to increase REIT sustainability across various areas of work including efficiency and

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?
		tax deduction.	renewables. Our CEO is on the Advisory Board of Governors at NAREIT as well.
Business Renewables Center	Consistent	The Business Renewables Center (BRC) is a member-based platform that streamlines and accelerates corporate purchasing of off-site, large-scale wind and solar energy. The BRC supports climate legislation and the Paris Agreement. The BRC works closely with RE100.	Equinix is a member of the Advisory Board for the Business Renewables Center (BRC). We also participate in various BRC events throughout the year influencing corporations to increase procurement of renewable energy through the use of products such as VPPAs.

CC2.3d

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

CC2.3e

Please provide details of the other engagement activities that you undertake

Equinix strives to be a leader in data center and REIT sustainability. Equinix participates in a variety of industry and NGO advocacy opportunities, initiatives and activities. Some key organizations include:

1. Corporate Renewable Energy Buyers' Principles
  - a. Signatory and active member attending 2x annual events
2. Business Renewables Center (BRC)
  - a. Member of Advisory Board for the Business Renewable Center.
  - b. "Faculty" participant in 3 Bootcamp events (August 2016; February 2017; June 2017) put on by the Business Renewables Center (BRC) <http://www.businessrenewables.org>. Numerous customers and potential customers of Equinix at each event. They are 3 day sessions designed to educate the "students" the "ins and outs" of the strategy around using utility scale virtual Power Purchase Agreements (vPPA's) to meet their clean/renewable energy goals.
  - c. Participant in a group of customers/developers/investors who met with BRC in Sept. 2016 to put develop a high level Term Sheet primer for BRC members to use as a starting framework when issuing vPPA Request for Proposals (RFP's).
3. RE100
  - a. Member of RE100 with an interim target of 50% by end of 2017 against a 2015 baseline

4. The Green Grid (including regional working teams)
  - a. Equinix is a member of The Green Grid and participates in Green Grid conferences and occasionally comments on white papers and other draft publications in the U.S., Europe and Asia-Pacific.
  - b. In Asia-Pacific, Equinix engaged with The Green Grid (TGG) Singapore Working Group which covers issues such as data center cooling efficiency technologies, configurations and requirements. This is a technical working group that utilizes elements of ISO/IEC 30134-2. The goal is to promote a debate on the effect of cooling technologies, data center configuration and server environmental requirements on the efficiencies of data centers within Singapore and other countries with tropical climates. The project is targeting a delivery date of Q4 2016.
5. Renewable Energy Buyers' Alliance (REBA)
  - a. Active member attending 2x annual events
  - b. Subject matter expert for breakout groups at Renewable Energy Buyer's Alliance (REBA) in November 2016
6. U.S. EPA Green Power Partnership
  - a. Recognized by the EPA as a green power partner lead for our 2016 efforts: <http://www.equinix.com/newsroom/press-releases/pr/123549/equinix-recognized-by-the-u-s-environmental-protection-agency-as-top-user-of-green-power/>
7. BSR Future of Internet Power
  - a. Participant in FoIP discussions around Scope 2 reporting and how to green the data center industry
8. National Association of Real Estate Investment Trusts (NAREIT)
  - a. Equinix interfaces with NAREIT Leader in the Light Sustainability Working Forum through the Real Estate Sustainability Council (RESC) subgroup and we support efforts to increase REIT sustainability across various areas of work including efficiency and renewables.
  - b. Our CEO is on the Advisory Board of Governors at NAREIT as well.
9. EU related:
  - a. EU Joint Research Council (JRC) Eco-Management and Audit Scheme (EMAS) Sectoral Reference Documents - Technical Working Group for the Telecommunication and ICT Services sector in the development of the Best Environmental Practices (BEMPs).
  - b. EU JRC Code of Conduct of Best Practice for Data Centres - Expert Committee annual review of EU Code of
  - c. Conduct
  - d. techUK Participant: Data Centre Council, Technical Committee & Professional Committee. Engaged around Climate Change Agreements and other legislation
  - e. CENELEC Technical Committee TCT/7/3 for EN 50600 Standards for Data Centres
10. Singapore Infocomm Development Authority and the National Research Foundation
  - a. Panel member for the Green Data Center Research Programme
11. NGOs: We also engage with NGOs such as: Greenpeace, USGBC LEED, BREEAM, Tokyo Metropolitan Government, ASHRAE, AIA, and many others around the world.
12. Customers: We also engage our customers around renewable energy and sustainability. In the past 6 months have held phone calls with customers/potential customers to share non-confidential info around what we have learned in our vPPA experiences. We also complete many different surveys and requests for presentations to our external stakeholders on how Equinix is greening its portfolio.
13. Surveys: We also engage with third-party surveys such as: CDP Investor Climate Change and Supply Chain Surveys, EcoVadis Supplier Sustainability Rating, Global Real Estate Sustainability Benchmark (GRESB), MSCI Environment, Social and Governance (ESG) Corporate Data Verification, and others.

**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?**

Equinix' s Global Procurement Policy guides procurement of energy products (electricity and natural gas) globally. Our 100% renewable energy goal informs how we make decisions in procuring energy for our global platform and working towards our long term goal of providing carbon neutral services for our customers and partners. We execute on purchasing bundled/unbundled renewable energy certificates, power purchase agreements, carbon offsets (and emissions reductions credits), and onsite generation such as solar and fuel cells. Our Global Operations (under which Global Sustainability falls) function ensures that our goals of designing, building and operating to the highest environmental standards are considered throughout the design and construction process as well as for existing sites. We design our data centers to include innovations such as: highly efficient cooling and uninterruptible power systems (UPS) and innovative indirect evaporative cooling systems (IDEC) which save 80% of power and 80% of water as compared to commonly used water cooled chiller plant based data center cooling systems. At the same time our global process ensures that our climate change strategy of both reducing energy consumption and reducing our carbon footprint through the widespread use of renewable energy is implemented globally.

With respect to our broader business strategy, we have created a Corporate Sustainability program, as described earlier, of which sustainability (climate change) is a part of (it falls under the Environment track). The Corporate Sustainability program is led by the CEO with Executive level inputs (Steering Committee members) globally ensuring that our direct and indirect activities related to all aspects of corporate sustainability / corporate responsibility including climate change are clearly reported and monitored. With respect to our suppliers, we have prepared an Equinix Business Partner Code of Conduct that is now embedded into one Global Supplier Information Form (GSIF) this is a required form that we asked all new suppliers to fill out and sign. Otherwise, a supplier is not added or created in Oracle system, which means we will not be able to transact to issue Purchase orders, or process payment. The Business Partner Code of Conduct covers a number of relevant corporate sustainability issues although not necessarily climate change specifically. Finally with respect to Governance and Political Activities and Contributions, our Corporate Code of Business Conduct (or Code of Conduct for short) has been created and all Equinix employees receive training on how the CoC should guide Equinix employees' actions and strategy. We recently hired a public policy director who is working closely with our Governance pillar (part of the Corporate Sustainability program) to ensure that our policy approach is in line with our corporate sustainability and governance approaches.

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CC2.3g

Please explain why you do not engage with policy makers

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**Further Information**

Our Corporate Sustainability Report details how we engage with NGO and other partners. Our 2016 report will be release on July 20th on this website: <http://www.equinix.com/company/sustainability/>

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**Attachments**

**Page: CC3. Targets and Initiatives**

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**CC3.1**

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

Renewable energy consumption and/or production target

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**CC3.1a**

Please provide details of your absolute target

ID	Scope	% of emissions in scope	% reduction from base year	Base year	Base year emissions covered by target (metric tonnes CO2e)	Target year	Is this a science-based target?	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 covered by target	Target year	Is this a science-based target?	Comment
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**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
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**CC3.1d**

Please provide details of your renewable energy consumption and/or production target

ID	Energy types covered by target	Base year	Base year energy for energy type covered (MWh)	% renewable energy in base year	Target year	% renewable energy in target year	Comment
RE1	Electricity	2015	2597896	33.5%	2017	50%	On June 3, 2016 Equinix was announced as a new member of the RE100.



ID	Energy types covered by target	Base year	Base year energy for energy type covered (MWh)	% renewable energy in base year	Target year	% renewable energy in target year	Comment
	consumption						We set an interim goal of sourcing 50% renewable energy (against a 2015 baseline) by 2017 as well as a long term aspirational goal becoming 100% clean and renewable. As of the end of 2015, Equinix was 33.5% renewable on an annual MWh basis. By the end of 2016 reached 56% renewable consuming 2,077 GWh of renewables during CY 2016 out of 3,692 GWh of total electricity consumption

#### CC3.1e

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

ID	% complete (time)	% complete (emissions or renewable energy)	Comment
RE1	66%	100%	Globally Equinix was 56% renewable for 2016; up from 33.5% last year. One year early, we achieved our RE100 goal of 50% renewable by end of 2017 against 2015 baseline. Hence we put 100% complete in the column in the left. In fact, against 2015 (2,600 GWh) we were actually 80% renewable (2,077 GWh of renewables). And therefore exceeded our short term target.

#### CC3.1f

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

Do you classify any of your existing goods and/or services as low carbon products or do they enable a third party to avoid GHG emissions?

Yes

CC3.2a

Please provide details of your products and/or services that you classify as low carbon products or that enable a third party to avoid GHG emissions

Level of aggregation	Description of product/Group of products	Are you reporting low carbon product/s or avoided emissions?	Taxonomy, project or methodology used to classify product/s as low carbon or to calculate avoided emissions	% revenue from low carbon product/s in the reporting year	% R&D in low carbon product/s in the reporting year	Comment
Product	Equinix is a global multi-tenant colocation data center company. By offering purpose-built efficient spaces for our customers to house their IT equipment and cross-connect with desired partners, we enable a data center environment that is extremely energy and environmentally friendly. As such the more than 8,000+ companies who colocate inside Equinix data centers including industries such as cloud services, online advertising and financial services, have been able to build new markets and unlock revenue opportunities while at the same	Avoided emissions	Other:	56%		The methodology assumes that all locations where Equinix purchases renewable energy are calculated with a low carbon emissions factor such that the net emissions (market-based Scope 2 emissions) is lower than the gross emissions (location-based Scope 2 emissions). The computation of the CO2e avoided through the purchase of RECs and green power products is computed using The Greenhouse Gas Protocol: A Corporate Accounting and Reporting Standard (Revised Edition), eGrid or IEA,

Level of aggregation	Description of product/Group of products	Are you reporting low carbon product/s or avoided emissions?	Taxonomy, project or methodology used to classify product/s as low carbon or to calculate avoided emissions	% revenue from low carbon product/s in the reporting year	% R&D in low carbon product/s in the reporting year	Comment
	<p>time avoiding having to build and operate thousands of individual less efficient facilities. Since 2015 we have had a long term goal to power our global portfolio with 100% renewable energy. In 2016 we are reporting a total 56% renewable globally with a breakdown of: 40.6% (Americas); 35.6% (Asia-Pacific); and 81.4% (EMEA). Our renewables contracts move our Scope 2 footprint from 1,533,036 (location-based) to 792,991 (market-based): an avoidance of 729,045 mtCO<sub>2</sub>e globally. This means that our customers by partnering with Equinix will be able to take advantage of lower carbon energy supplies at over 100 sites globally and in almost every market in the world.</p>					<p>and the IPCC Second Assessment Report (SAR - 100 year) and the relevant location-based emissions factors for each site. Due to sensitivity around disclosing revenue data at a disaggregate level Equinix is unable to produce a % revenue from low carbon products in reporting year. We have entered 56% which is the percent of our electricity consumption that was covered by our renewable energy purchases in 2016.</p>

**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	111	
To be implemented*	0	
Implementation commenced*	33	7663
Implemented*	74	805927
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: Building services	Equinix's Global Energy Efficiency Program (EEP) completed 119 projects from 2011 to 2016. Additional work in the	76882	Scope 2 (location-based)	Voluntary		22400000	1-3 years	11-15 years	46 projects with an investment over \$22.4 million were implemented (aka completed in 2016) which total about 77,000

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
	efficiency space was also completed that did not meet criteria to be specified as a specific project. Of the 119, 46 projects were completed in 2016 including upgrades and retrofits such as chiller upgrades, granular temperature control systems, UPS upgrades, etc.								mtCO2e of planned avoided emissions annually based on location-based Scope 2 reporting methodology. Since 2011 Equinix has completed over \$93 million of energy efficiency projects (over 119 larger projects completed and this is on top of site to site improvements and small adjustments such as temperature setpoints, blanking panels, containment, etc.)
Energy efficiency: Building services	Enhanced commissioning, prototype modelling on mechanical systems		Scope 2 (location-based)	Voluntary			1-3 years	11-15 years	Saving not yet quantified
Low carbon energy purchase	Equinix purchased 2,077 GWh of renewable energy products in 2016. We are reporting a total 56% renewable globally with a breakdown of: 40.6% (Americas 595 GWh); 35.6% (Asia-Pacific 257 GWh); and 81.4% (EMEA 1226 GWh). Our renewables contracts move	729045	Scope 2 (location-based)	Voluntary			>25 years	3-5 years	729,045 mtCO2e avoided in 2016 through applying market-based emissions factors for renewable energy products and RECs. This renewable energy represents 56% of Equinix's global electricity requirements (in annual MWh)

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
	our Scope 2 footprint from 1,533,036 (location-based) to 792,991 (market-based): an avoidance of 729,045 mtCO2e globally. This means that our customers by partnering with Equinix will be able to take advantage of lower carbon energy supplies at over 100 sites globally and in almost every market in the world.								

**CC3.3c**

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

Method	Comment
Compliance with regulatory requirements/standards	Equinix complies with all applicable state, regional, and country regulations and engages in and participates in all relevant energy / emissions monitoring programs such as the EU-ETS and Tokyo GHG Program
Dedicated budget for other emissions reduction activities	In 2016 46 Energy Efficiency Program (EEP) projects with an investment over \$22.4 million were implemented (aka completed in 2016) which total about 77,000 mtCO2e of planned avoided emissions annually based on location-based Scope 2 reporting methodology. Since 2011 Equinix has completed over \$93 million of energy efficiency projects (over 119 larger projects completed and this is on top of site to site improvements and small adjustments such as temperature

Method	Comment
	setpoints, blanking panels, containment, etc.). To drive our actions, Equinix has recently adopted more aggressive regional power usage effectiveness (PUE) design targets for new sites as well as major expansions. These targets are based on an average annual PUE at full load (with redundancy) that meets the definition for PUE. Our current targets range from 1.29-1.40 and represent an average incremental efficiency gain of 8-10%. Some newer data centers even exceed these numbers and we have recently completed projects with design average PUEs of 1.20 or better. SV10, SY3, SP3 are all designed lower than 1.20. Projects include upgrades, retrofits, and replacements of old or inefficient equipment. Projects are prioritized by payback but can have varying payback years
Lower return on investment (ROI) specification	Total cost of ownership for mechanical systems includes consideration of more efficient mechanical and electrical equipment on top of financial considerations. In addition renewable energy purchases are made subject to our strategy of reaching 100% renewable energy and not necessarily selected based solely on parity with brown power pricing. We strive to procure renewable energy that is local and additional to what our utilities and suppliers would otherwise provide to us

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#### CC3.3d

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

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#### Further Information

Adding Verification statement showing carbon avoided through renewable energy purchasing moving our location-based Scope 2 footprint significantly down when computed as market-based Scope 2

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#### Attachments

<https://www.cdp.net/sites/2017/67/33267/Climate Change 2017/Shared Documents/Attachments/ClimateChange2017/CC3.TargetsandInitiatives/Equinix Inc CDP RY2016 Verification Report Final Issued 20170629.pdf>

#### Page: CC4. Communication

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#### 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	Comment
In voluntary communications	Complete	Green by Design website: <a href="http://www.equinix.com/company/green/">http://www.equinix.com/company/green/</a>	<a href="https://www.cdp.net/sites/2017/67/33267/Climate%20Change%202017/Shared%20Documents/Attachments/CC4.1/Equinix%20Green%20by%20Design%20Website-as%20of%20June%202017.pdf">https://www.cdp.net/sites/2017/67/33267/Climate Change 2017/Shared Documents/Attachments/CC4.1/Equinix Green by Design Website-as of June 2017.pdf</a>	See attached screenshots
In voluntary communications	Complete	Equinix Corporate Sustainability website: <a href="http://www.equinix.com/company/sustainability/">http://www.equinix.com/company/sustainability/</a>	<a href="https://www.cdp.net/sites/2017/67/33267/Climate%20Change%202017/Shared%20Documents/Attachments/CC4.1/Equinix%20Corporate%20Sustainability%20Website-as%20of%20June%202017.pdf">https://www.cdp.net/sites/2017/67/33267/Climate Change 2017/Shared Documents/Attachments/CC4.1/Equinix Corporate Sustainability Website-as of June 2017.pdf</a>	See attached screenshots
In voluntary communications	Complete	2015 Equinix Corporate Sustainability Report	<a href="https://www.cdp.net/sites/2017/67/33267/Climate%20Change%202017/Shared%20Documents/Attachments/CC4.1/Equinix%202015%20Corporate%20Sustainability%20Report.pdf">https://www.cdp.net/sites/2017/67/33267/Climate Change 2017/Shared Documents/Attachments/CC4.1/Equinix 2015 Corporate Sustainability Report.pdf</a>	2015 Equinix Corporate Sustainability Report
In voluntary communications	Complete	Interconnections Blog Sustainability stories: <a href="https://blog.equinix.com/blog/tag/sustainability/">https://blog.equinix.com/blog/tag/sustainability/</a>	<a href="https://www.cdp.net/sites/2017/67/33267/Climate%20Change%202017/Shared%20Documents/Attachments/CC4.1/Interconnections%20Screenshot.pdf">https://www.cdp.net/sites/2017/67/33267/Climate Change 2017/Shared Documents/Attachments/CC4.1/Interconnections Screenshot.pdf</a>	

## Further Information

### 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
Fuel/energy taxes and regulations	Electricity is Equinix's second largest spend after labor and therefore is very material to our business. We use a substantial amount of energy to power both our infrastructure and our customers' IT equipment. Because of our large spend we are exposed to changes in power prices including those from changing regulations, transmission and distribution costs, and taxes, as well as changes in the commodities prices driven by	Increased operational cost	3 to 6 years	Direct	More likely than not	High	Equinix currently spends \$366 million on electricity per year or about 21% of its annual OPEX; a 5% swing in power prices would mean that Equinix could be spending +/- \$18 million.	Equinix takes steps to improve the energy efficiency of its data centers and lower its energy usage. Through our global Energy Efficiency Program (EEP) we have invested more than \$93 million USD since 2011 in energy efficiency upgrades, retrofits, and equipment replacements. Equinix has recently focused on evaluating sites for upgrades to CRAC/CRAH monitoring and control. To stabilize and lower costs, our Global Power	Equinix has a team of two managers (Sr. and Mgr) and a Senior Director responsible for Global Power Procurement. It also has a dedicated budget for energy consultant activities including market intelligence and contract negotiation. From the Energy Efficiency Program side, a number of groups are involved globally ranging from Global Design & Construction, Design Engineering, Ops Engineering, and

Risk driver	Description	Potential impact	Timeframe	Direct/ Indirect	Likelihood	Magnitude of impact	Estimated financial implications	Management method	Cost of management
	<p>changing global market dynamics in the coal, oil, and natural gas sectors. In order to remain competitive in our business we must control both our electricity costs and our consumption. We recognize the risk that regulation of greenhouse gas emissions may increase the cost of electricity such as by reducing supplies of electricity generated from fossil fuels, by requiring the use of more expensive generating methods, or by imposing taxes or fees upon electricity generation or use. This is described in more detail on page 40 of our 2016 Annual Report. Electricity is a material cost</p>							<p>Procurement program seeks contracts that enable us to ensure budget certainty over the next 0-3 years while also watching what happens in the marketplace good or bad. This includes entering into fixed priced contracts, hedge structures, and/or purchasing renewable energy at fixed prices. A specific case study for us is how we have procured renewable energy in the UK to avoid the climate change levy (CCL). This scheme has recently changed but for a long time recognized the risk of taxes such as these on large energy users like Equinix. We also entered in UK Climate Change Agreements</p>	<p>others. Each region handles its own EEP program.</p>

Risk driver	Description	Potential impact	Timeframe	Direct/ Indirect	Likelihood	Magnitude of impact	Estimated financial implications	Management method	Cost of management
	in connection with our business, and an increase in the cost of electricity, whether from regulations of GHGs or otherwise, could adversely affect us.							(CCAs) to reduce our rate of the CCL.	

**CC5.1b**

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

Risk driver	Description	Potential impact	Timeframe	Direct/ Indirect	Likelihood	Magnitude of impact	Estimated financial implications	Management method	Cost of management
Tropical cyclones (hurricanes and typhoons)	Through its Enterprise Risk Management (ERM) program Equinix focuses on identifying threats and risks and deploying site-level business continuity plans to reduce the impact and	Reduction in capital availability	3 to 6 years	Direct	More likely than not	Medium-high	Changing physical parameters may mean increased OPEX costs to Equinix and changes to design standards thereby impacting CAPEX. OPEX costs to Equinix and changes to design	At the site level, risk management procedures include involving our insurance company beginning at the design phase. Their expertise is used to assess climate change	Equinix works closely with its insurers and build appropriately. Assuming that our capital costs are 1-2% more than they could be otherwise then that would

Risk driver	Description	Potential impact	Timeframe	Direct/ Indirect	Likelihood	Magnitude of impact	Estimated financial implications	Management method	Cost of management
	likelihood of such risk. The BC plans include deployment of Standard Operating Procedures and other processes that ensure that Equinix maintains the highest reliability in the face of risks such as severe weather. From a design standpoint, we work with our insurers to ensure that all weather related risks are quantified and the appropriate measures (such a floor height) are incorporated. Other things we consider: changing temperatures, sea-level rise, water shortages (rainwater, greywater). Our International Business Exchange™ (IBX®) data centers provide						standards thereby impacting CAPEX. Capital Expenditures in 2016 totaled \$1,113,365,000 USD (page 179 of 2016 Annual Report). A 1% increase in cost would mean \$11.1 million USD.	related issues such as hurricanes, floods, earthquakes; as well as environmental quality risks. Decisions such as floor height, underground vs above ground storage tanks, etc. are made during this process. For existing sites Equinix conducts threat and risk assessments site by site and each site has an associated business continuity plan associated with each risk, The BC plan outlines exactly how Equinix will reduce the impact and likelihood of each threat or risk. Measures include risk management methods including SOPs, IBX-specific recovery plans in the event of disaster, and	mean \$11.1 to 22.2 million USD.

Risk driver	Description	Potential impact	Timeframe	Direct/ Indirect	Likelihood	Magnitude of impact	Estimated financial implications	Management method	Cost of management
	<p>global average uptime of &gt;99.9999%. To ensure electricity is always available, our IBX facilities provide a minimum of N+1 power redundancy, so every mission-critical component has at least one backup power feed that kicks in when there's an outage. We also store enough fuel on site to provide 24 to 48 hours of emergency power, and we have guaranteed fuel delivery contracts to replenish those supplies. Many IBX facilities even offer N+2 redundancy. The physical impacts of climate change, including extreme weather conditions such as heat waves, could materially increase our costs of operation due to,</p>							<p>maintenance schedules, etc. A specific case study for Equinix was our exposure to extreme weather in Hurricane Sandy in 2012. Since then we have made several design modifications to our data centers and how they operate under emergency protocols that will address another extreme weather event.</p>	

Risk driver	Description	Potential impact	Timeframe	Direct/ Indirect	Likelihood	Magnitude of impact	Estimated financial implications	Management method	Cost of management
	for example, an increase in our energy use in order to maintain the temperature and internal environment of our data centers necessary for our operations								

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
Changing consumer behavior	As of this submission the scale of Platform Equinix™ now reaches 179 data centers in 44 metros around the world and 22 countries – including 2017 Verizon acquisition. In 2016 our platform	Reduced demand for goods/services	3 to 6 years	Direct	About as likely as not	High	2016 Annual report page 18: Our customers include carriers, mobile and other bandwidth providers, cloud and IT services providers, content providers, financial companies and global	We are aware that our customers are concerned with sustainability, environmental impact, and climate change. That's why we have prioritized leadership as well as transparency as key aspects of our program.	Equinix works with a global energy consultant to provide insight into global climate change policies, trends, and vendors of low carbon solutions. We source high quality

Risk driver	Description	Potential impact	Timeframe	Direct/ Indirect	Likelihood	Magnitude of impact	Estimated financial implications	Management method	Cost of management
	<p>was roughly 150 IBX data centers in 21 countries on 5 continents, 14 million+ grosssquare feet globally. More than \$13.5 billion of capital invested in capacity, new markets and acquisitions since 1998. And, Equinix delivered uptime of 99.9999% across its footprint in 2016. The 2016 numbers include acquisitions Bit-Isle and Telecity for the first time. Next year , 2017, we will incorporate our Verizon acquisition into this reporting. Equinix data centers contain a dynamic marketplace for communications services, interconnecting businesses, networks, carriers and content providers to</p>						<p>enterprises. We provide each customer access to a choice of business partners and solutions based on their colocation, interconnection and managed IT service needs. As of December 31, 2016, we had more than 8,500 customers worldwide. Customers typically sign renewable contracts of one or more years in length. Our largest customer accounted for approximately 3% of our recurring revenues for the periods ended December 31, 2016 and 2015, and 2% of our recurring revenues for the period ended December 31, 2014. Our 50 largest customers</p>	<p>Equinix is leading our industry and peers in confronting the threat of climate change and the impact of traditional fossil fuel generation. And we are actively participating in dialogue and purchasing that will enable the clean and renewable utility grid of the future In addition to contracting for more renewable energy, we are listening to our customers. Specifically in the past year several customers have commended us for our efforts and recognize that what we do is positively impacting their supply chain. Equinix supplies not only high performance, high</p>	<p>renewable energy from a variety of suppliers and developers around the world. We also take steps to ensure that we are listening to our customers. Whether through direct sales interactions, industry conferences and events, or participation in mutual groups such as the BRC, Corporate RE Buyers' Principles, Future of Internet Power, RE100 etc.</p>

Risk driver	Description	Potential impact	Timeframe	Direct/ Indirect	Likelihood	Magnitude of impact	Estimated financial implications	Management method	Cost of management
	<p>potential suppliers, customers and partners. More than 8,500+ potential partners to deploy world-class solutions. In 2016, more than half of our revenue came from customers with deployments in all three of our global regions, and we expect seamless global solutions to become increasingly important data center selection criteria as globalization continues</p>						<p>accounted for approximately 36%, 34% and 36% of our recurring revenues for the years ended December 31, 2016, 2015 and 2014, respectively. Our total 2016 revenues were \$3,611,989,000 USD. Hence, if our largest customer pulled out we would lose \$108.4 million USD in annual revenue</p>	<p>quality, and highly reliable data centers, we also lead in sustainability and integrating climate change into our long term strategy. We share what we learn by being active in industry and advocacy organizations to communicate our progress, share best practices, and look for new ways that we can continue to innovate. We understand that Equinix is in the supply chains of its customers and what we do impacts their ability to meeting their environmental goals. Example groups include: BRC, Corporate RE Buyers' Principles, Future of Internet Power, RE100, EPA</p>	



Risk driver	Description	Potential impact	Timeframe	Direct/ Indirect	Likelihood	Magnitude of impact	Estimated financial implications	Management method	Cost of management
								Green Power Partnership, and advocacy with DVP.	

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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

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CC5.1e

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

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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

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**Further Information**

2016 Equinix Annual Report

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**Attachments**

[https://www.cdp.net/sites/2017/67/33267/Climate Change 2017/Shared Documents/Attachments/ClimateChange2017/CC5.ClimateChangeRisks/2016 Equinix Annual Report.pdf](https://www.cdp.net/sites/2017/67/33267/Climate%20Change%202017/Shared%20Documents/Attachments/ClimateChange2017/CC5.ClimateChangeRisks/2016%20Equinix%20Annual%20Report.pdf)

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**Page: CC6. Climate Change Opportunities**

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**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

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**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
Fuel/energy taxes and regulations	It is known that the consolidation	Increased demand for existing	3 to 6 years	Direct	Likely	Medium-high	Equinix currently spends \$366	To avoid fuel costs we takes steps to improve	Equinix has a team of two managers

Opportunity driver	Description	Potential impact	Timeframe	Direct/Indirect	Likelihood	Magnitude of impact	Estimated financial implications	Management method	Cost of management
	of IT infrastructures under purpose built facilities yields economies of scale. As such we expect that changes in regulations that require the reduction of emissions could potentially push customers away from smaller owned-data centers into multi-tenant retails facilities such as Equinix facilities so as to save on power costs and/or avoid requirements to disclose emissions. In addition, we would expect that such	products/services					million on electricity per year or about 21% of its annual OPEX; a 5% swing in power prices would mean that Equinix could be spending or saving +/- \$18 million. And with request to potential impact, our largest customer accounted for approximately 3% of our recurring revenues for the periods ended December 31, 2016 (or about 3% * \$3,611,989,000 USD = \$108.4 million USD in annual revenue from one customer) – hence a 10% increase demand from	the energy efficiency, prioritize projects within sites that are less efficient or have high power prices. We have invested more than \$93 million USD since 2011 in energy efficiency upgrades, retrofits, and equipment replacements. To stabilize and lower fuel costs, our Global Power Procurement program seeks contracts that enable us to ensure budget certainty over the next 0-3 years while also watching what happens in the marketplace good or bad. This includes entering into fixed priced contracts, hedge	(Sr. and Mgr) and a Senior Director responsible for Global Power Procurement. It also has a dedicated budget for energy consultant activities including market intelligence and contract negotiation. From the Energy Efficiency Program side, a number of groups are involved globally ranging from Global Design & Construction, Design Engineering, Ops Engineering, and others. Each region

Opportunity driver	Description	Potential impact	Timeframe	Direct/Indirect	Likelihood	Magnitude of impact	Estimated financial implications	Management method	Cost of management
	<p>pressure might influence the development of innovative ways to communicate and collaborate using virtualized environments. The Internet of Things will certainly play a large role in Equinix's success and the need for reducing real-world energy and resource consumption related to carbon emissions may provide Equinix new opportunities for growing its customer base. In addition, as a large consumer of electricity Equinix</p>						<p>just this one customer would net \$10.8 million USD extra annual revenue. We believe that given our purchasing power, we can use renewable energy as a hedge against the future. We can decrease volatility in both prices and adders and fees and we can address the long term sustainability needs of both ourselves and our customers. Equinix's potential for reduction in power prices could translate into our ability to provide more cost competitive services that also meet our</p>	<p>structures, and/or purchasing renewable energy at fixed prices.. In 2015 We saw an opportunity to fix our costs and reduce our climate change impact in 2015 when we announced our long term goal to reach 100% clean and renewably powered. Some example case studies include: Locking into long term renewable energy contracts. We have 225 MW of utility-scale renewables under long term power purchase agreement (PPA) contracts and operational as of November 1 and December 1, 2016</p>	<p>handles its own EEP program. Equinix also runs a Corporate Sustainability program as detailed earlier which ensures that the sustainability needs of our business and our customers are addressed in an integrated way throughout our business</p>

Opportunity driver	Description	Potential impact	Timeframe	Direct/Indirect	Likelihood	Magnitude of impact	Estimated financial implications	Management method	Cost of management
	<p>expects to have growing opportunities to participate in the renewable energy space. Large power purchase agreements are becoming increasingly available and cost effective and could serve as a cost effective long term hedge against power price volatility for Equinix and also constitute significant environmental benefits that may offer opportunities around long term fuel/energy costs and strategies</p>						<p>customers' long term sustainability goals.</p>	<p>respectively. We believe our early achievement of RE100 goal of 50% renewable by end of 2017 against 2015 baseline is a key differentiator of our colocation product. And we are in a unique position to contract for better power products. More and more customers are coming to Equinix for both our scale and reliability but also our sustainability. We have one of the largest portfolios of renewable energy to offer of any colo.</p>	

CC6.1b

Please describe your 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
Other physical climate opportunities	Equinix offers a suite of data centers that each delivers operational expertise and service quality that leads our industry. We prioritize reliability and Equinix offers >99.9999% uptime and extraordinary physical security across our global platform of 150+ data centers. We believe that in the face of changes in physical climate parameters	Increased demand for existing products/services	>6 years	Direct	More likely than not	Medium	Changing physical parameters may mean increased OPEX costs to Equinix and changes to design standards thereby impacting CAPEX. OPEX costs to Equinix and changes to design standards thereby impacting CAPEX. Capital Expenditures in 2016 totaled \$1,113,365,000 USD (pg 179 of 2016 Annual Report). A 1% increase in cost would mean \$11.1 million USD. At the same time Equinix's investments in reliability and resiliency directly impact our customers and make our value proposition even stronger. Pg15 of our 2016 Annual Report states: Equinix IBX data centers feature advanced design, security, power and cooling elements to provide customers with	At the site level, risk management includes involving our insurance company beginning at the design phase. Their expertise is used to assess climate change issues such as hurricanes, floods, earthquakes; as well as environmental quality risks. Decisions such as floor height, underground vs above ground storage[SS1] tanks, etc. are made during this process. We conduct threat and risk assessments site by site and each site has an associated business continuity plan associated with each risk. The BCP outlines exactly how Equinix will reduce the impact and likelihood of each threat or risk. Measures include risk management methods including SOPs, IBX-specific recovery plans in the event of	Equinix works closely with its insurers and build appropriately. Assuming that our capital costs are 1-2% more than they could be otherwise then that would mean \$11.1 to 22.2 million USD

Opportunity driver	Description	Potential impact	Timeframe	Direct/Indirect	Likelihood	Magnitude of impact	Estimated financial implications	Management method	Cost of management
	including more extreme weather events, customers will choose Equinix to house their most value IT infrastructure.						industry-leading reliability, including average uptime of 99.99% globally in 2016. Our 50 largest customers accounted for appx. 36% of our recurring revenues for the year ended December 31,2016. Given our revenue of \$3,611,9893,417,374,000 USD in 2016 ; these customers represent \$1.230 billion and a 5% increase in demand would be \$ 61.5.0 million USD.	disaster, and maintenance schedules, fuel delivery, etc. A specific case study for was our exposure to extreme weather in Hurricane Sandy in 2012. We have made design modifications to our data centers and how they operate under emergency protocols that will address another extreme weather event.	

CC6.1c

Please describe your 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 behavior	As of this writing the scale of Platform Equinix™ now reaches 179 data centers in 44 metros	Increased demand for existing products/services	1 to 3 years	Direct	More likely than not	High	2016 Annual report pg 18: Our customers include carriers, mobile and other bandwidth providers, cloud ,IT	We are aware that our customers are	Equinix works with a global energy consultant to

Opportunity driver	Description	Potential impact	Timeframe	Direct/Indirect	Likelihood	Magnitude of impact	Estimated financial implications	Management method	Cost of management
	<p>around the world and 22 countries – this includes the 2017 Verizon acquisition. In 2016 our platform was roughly 150 IBX data centers in 21 countries on 5 continents, 14 million+ gross square feet globally. More than \$13.5 billion of capital invested in capacity, new markets and acquisitions since 1998. And, Equinix delivered uptime of 99.9999% across its footprint in 2016. Equinix data centers contain a dynamic marketplace for communications services, interconnecting businesses, networks, carriers and content providers to potential suppliers, customers and partners. More than 8,500+ potential partners to deploy world-class solutions. In 2016, more than half of our revenue came from customers with deployments in all three of our global</p>						<p>services and content providers, financial companies and global enterprises. We provide each customer access to a choice of business partners and solutions based on their colocation, interconnection and managed IT service needs. As of Dec 31, 2016, we had more than 8,500 customers worldwide. Customers typically sign renewable contracts of one or more years in length. Our largest customer accounted for approx 3% of our recurring revenues for the periods ended Dec 31, 2016 and 2015, and 2% of our recurring revenues for the period ended Dec 31, 2014. Our 50 largest customers accounted for approximately 36%, 34% and 36% of our recurring revenues for the years ended Dec 31, 2016, 2015 and 2014, respectively. Our total 2016 revenues were \$3,611,989,000 USD. Hence, if our</p>	<p>concerned with sustainability, environmental impact, and climate change. Equinix is leading our industry and peers in confronting the threat of climate change and the impact of traditional fossil fuel generation. And we are actively participating in dialogue and purchasing that will enable the clean and renewable utility grid of the future. In 2016 Equinix made significant progress: on its sustainability</p>	<p>provide insight into global climate change policies, trends, and vendors of low carbon solutions. We source high quality renewable energy from a variety of suppliers and developers around the world. We also take steps to ensure that we are listening to our customers. Whether through direct sales interactions, industry conferences and events, or participation in mutual</p>



Opportunity driver	Description	Potential impact	Timeframe	Direct/Indirect	Likelihood	Magnitude of impact	Estimated financial implications	Management method	Cost of management
	<p>regions. Within this global context, We know that our customers are increasingly aware of climate change and are taking steps to minimize their greenhouse gas GHG footprints including those of their supply chain. We realize that climate change may induce changes in the preferences of our customers for products/services with lower carbon footprints. That's why we have placed leadership as a key part of our business strategy. We must stay ahead of the curve and offer data centers services and products that meet our customers' reliability needs but also environmental needs. We can be the preferred partner for customers who seek lower carbon solutions.</p>						<p>largest customer doubled its load in Equinix IBX data centers we would increase \$108.4 million USD in annual revenue.</p>	<p>strategy. we are over halfway to our long term 100% clean and renewable energy goal (reaching 56% in 2016 including growth through acquisitions). Our market based carbon footprint was nearly flat from 2015-2016 despite our rapid growth: 795,669 mt CO2e (2015) vs. 792,991 mtCO2e (2016) for Market-Based Scope 2. And our GHG intensity actually went down by 30%: 309 mtCO2e/GWh vs. 216</p>	<p>groups such as the BRC, Corporate RE Buyers' Principles, Future of Internet Power, RE100 etc.</p>

Opportunity driver	Description	Potential impact	Timeframe	Direct/Indirect	Likelihood	Magnitude of impact	Estimated financial implications	Management method	Cost of management
								<p>mtCO2e/GWh. We are active in industry and advocacy organizations to communicate our progress, share best practices, and look for new ways that we can continue to innovate. We understand that Equinix is in the supply chains of its customers and what we do impacts their ability to meeting their environmental goals. Example groups include: BRC, Corporate RE Buyers' Principles, Future of Internet Power,</p>	

Opportunity driver	Description	Potential impact	Timeframe	Direct/Indirect	Likelihood	Magnitude of impact	Estimated financial implications	Management method	Cost of management
								RE100, EPA Green Power Partnership, and advocacy with DVP. Our customers rely on Equinix to provide the highest standards for reliability and uptime and we know that our ability to meeting sustainability goals is a key differentiator.	

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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

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CC6.1e

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

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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	Thu 01 Jan 2015 - Thu 31 Dec 2015	9110
Scope 2 (location-based)	Thu 01 Jan 2015 - Thu 31 Dec 2015	1122413

Scope	Base year	Base year emissions (metric tonnes CO2e)
Scope 2 (market-based)	Thu 01 Jan 2015 - Thu 31 Dec 2015	795669

---

**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**

The Greenhouse Gas Protocol: A Corporate Accounting and Reporting Standard (Revised Edition)

---

**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 Second Assessment Report (SAR - 100 year)
CH4	IPCC Second Assessment Report (SAR - 100 year)
N2O	IPCC Second Assessment Report (SAR - 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
Diesel/Gas oil			Please refer excel sheet attached
Electricity			Please refer excel sheet attached

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#### Further Information

Emissions factors used in 2016 calendar year verification, 2016 and 2015 verifier opinions and reports

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#### Attachments

[https://www.cdp.net/sites/2017/67/33267/Climate Change 2017/Shared Documents/Attachments/ClimateChange2017/CC7.EmissionsMethodology/Equinix Inc CDP RY2016 VOS Final Issued 20170629.pdf](https://www.cdp.net/sites/2017/67/33267/Climate%20Change%202017/Shared%20Documents/Attachments/ClimateChange2017/CC7.EmissionsMethodology/Equinix%20Inc%20CDP%20RY2016%20VOS%20Final%20Issued%2020170629.pdf)  
[https://www.cdp.net/sites/2017/67/33267/Climate Change 2017/Shared Documents/Attachments/ClimateChange2017/CC7.EmissionsMethodology/Carbon Map\\_2016\\_Market Based.xlsx](https://www.cdp.net/sites/2017/67/33267/Climate%20Change%202017/Shared%20Documents/Attachments/ClimateChange2017/CC7.EmissionsMethodology/Carbon%20Map_2016_Market%20Based.xlsx)  
[https://www.cdp.net/sites/2017/67/33267/Climate Change 2017/Shared Documents/Attachments/ClimateChange2017/CC7.EmissionsMethodology/Equinix Inc CDP RY2016 Verification Report Final Issued 20170629.pdf](https://www.cdp.net/sites/2017/67/33267/Climate%20Change%202017/Shared%20Documents/Attachments/ClimateChange2017/CC7.EmissionsMethodology/Equinix%20Inc%20CDP%20RY2016%20Verification%20Report%20Final%20Issued%2020170629.pdf)  
[https://www.cdp.net/sites/2017/67/33267/Climate Change 2017/Shared Documents/Attachments/ClimateChange2017/CC7.EmissionsMethodology/Equinix CDP 2015 Verifier Opinion 062716 Final.pdf](https://www.cdp.net/sites/2017/67/33267/Climate%20Change%202017/Shared%20Documents/Attachments/ClimateChange2017/CC7.EmissionsMethodology/Equinix%20CDP%202015%20Verifier%20Opinion%20062716%20Final.pdf)  
[https://www.cdp.net/sites/2017/67/33267/Climate Change 2017/Shared Documents/Attachments/ClimateChange2017/CC7.EmissionsMethodology/Equinix CDP](https://www.cdp.net/sites/2017/67/33267/Climate%20Change%202017/Shared%20Documents/Attachments/ClimateChange2017/CC7.EmissionsMethodology/Equinix%20CDP)

**Page: CC8. Emissions Data - (1 Jan 2016 - 31 Dec 2016)**

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**CC8.1**

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

Operational control

---

**CC8.2**

**Please provide your gross global Scope 1 emissions figures in metric tonnes CO<sub>2</sub>e**

9377

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**CC8.3**

**Please describe your approach to reporting Scope 2 emissions**

Scope 2, location-based	Scope 2, market-based	Comment
We are reporting a Scope 2, location-based figure	We are reporting a Scope 2, market-based figure	Please see attachment with "CarbonMap" emissions factors both computing location-based Scope 2 and market-based Scope 2 emissions

---

**CC8.3a**

Please provide your gross global Scope 2 emissions figures in metric tonnes CO<sub>2</sub>e

Scope 2, location-based	Scope 2, market-based (if applicable)	Comment
1526837	797792	In 2016 Equinix used 3,691 GWh of electric power and 26 GWh of chilled water equivalent = 3,718 GWh. At the same time 2,077 GWh is credited as low carbon through the use of a variety of renewable energy products (VPPA RECs, unbundled RECs, unbundled IRECs and J-credits). The result is a Market-Based Scope 2 emissions of only 797,792 mtCO <sub>2</sub> e including chilled water. This compares to the 795,669 mtCO <sub>2</sub> e reported in 2015. During 2015, however our total electric power usage was 2,597 GWh and we only used about 844 GWh of renewable energy products

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**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?

Yes

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**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 location-based Scope 2 emissions from this source	Relevance of market-based Scope 2 emissions from this source (if applicable)	Explain why the source is excluded
Hydrofluorocarbons from refrigerants	Emissions are relevant but not yet calculated	No emissions excluded	No emissions excluded	Hydrofluorocarbons are not included in this disclosure. Equinix uses refrigerants in some of its cooling systems and fugitive emissions have not yet been quantified. However, our compliance teams have assured the Sustainability teams that the amount of emissions from refrigerants is miniscule compared to those from our \$366 million of electric power

**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 5% but less than or equal to 10%	Data Gaps	Equinix uses diesel to power our backup generators as well as a small amount of natural gas in our data centers. Due the lack of available invoice data there is significant uncertainty in our scope 1 emissions. Like in 2015, for 2016 we have assessed our Scope 1 diesel-based emissions based on global inventory of diesel generators, their size, and assumptions around data center load, generator efficiency, and run time (hours) for both maintenance and emergency usage. Scope 1 natural gas emissions are based on available invoice data and comprise about half of our Scope 1 total emissions. Based on our estimates Scope 1 comprises <1% of all combined Scope 1 + Scope 2 emissions. And, it should be mentioned that Utilities other than electricity only comprise less than 5% of our spend; therefore it is expected that Scope 1 emissions are very small even with data gaps and an uncertainty range of 5-10% or possibly more
Scope 2	Less than or equal	Extrapolation	As of the end of 2016 Equinix had over 150 sites around the world covered in its 2016 reporting, each site

Scope	Uncertainty range	Main sources of uncertainty	Please expand on the uncertainty in your data
(location-based)	to 2%		with multiple utility meters and Equinix spends \$366 million on power. As such it is difficult to collect 100% of utility invoices around the world for 12 months and all accounts. Some extrapolation has been done to fill for missing data. In months when invoices are missing, the data are filled with previous or consecutive months' data.
Scope 2 (market-based)	Less than or equal to 2%	Extrapolation	As of the end of 2016 Equinix had over 150 sites around the world covered in its 2016 reporting, each site with multiple utility meters and Equinix spends \$366 million on power. As such it is difficult to collect 100% of utility invoices around the world for 12 months and all accounts. Some extrapolation has been done to fill for missing data. In months when invoices are missing, the data are filled with previous or consecutive months' data. In addition, market-based emissions factors continue to prove difficult to obtain. There is no regional or local data base of emissions factors and utilities and suppliers vary greatly in their public transparency.

**CC8.6**

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

Third party verification or assurance process in place

**CC8.6a**

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

Verification or assurance cycle in place	Status in the current reporting year	Type of verification or assurance	Attach the statement	Page/section reference	Relevant standard	Proportion of reported Scope 1 emissions verified (%)
Annual process	Complete	Limited assurance	<a href="https://www.cdp.net/sites/2017/67/33267/Climate%20Change%202017/Shared%20Documents/Attachments/CC8.6a/Equinix%20Inc%20CDP%20RY2016%20Verification%20Report%20Final%20Issued%2020170629.pdf">https://www.cdp.net/sites/2017/67/33267/Climate Change 2017/Shared Documents/Attachments/CC8.6a/Equinix Inc CDP RY2016 Verification Report Final Issued 20170629.pdf</a>		ISO14064-3	100

#### CC8.6b

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

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

#### CC8.7

Please indicate the verification/assurance status that applies to at least one of your reported Scope 2 emissions figures

Third party verification or assurance process in place

#### CC8.7a

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

Location-based or market-based figure?	Verification or assurance cycle in place	Status in the current reporting year	Type of verification or assurance	Attach the statement	Page/Section reference	Relevant standard	Proportion of reported Scope 2 emissions verified (%)
Location-based	Annual process	Complete	Limited assurance	<a href="https://www.cdp.net/sites/2017/67/33267/Climate%20Change%202017/Shared%20Documents/Attachments/CC8.7a/Equinix%20Inc%20CDP%20RY2016%20Verification%20Report%20Final%20Issued%2020170629.pdf">https://www.cdp.net/sites/2017/67/33267/Climate Change 2017/Shared Documents/Attachments/CC8.7a/Equinix Inc CDP RY2016 Verification Report Final Issued 20170629.pdf</a>		ISO14064-3	100
Market-based	Annual process	Complete	Limited assurance	<a href="https://www.cdp.net/sites/2017/67/33267/Climate%20Change%202017/Shared%20Documents/Attachments/CC8.7a/Equinix%20Inc%20CDP%20RY2016%20VOS%20Final%20Issued%2020170629.pdf">https://www.cdp.net/sites/2017/67/33267/Climate Change 2017/Shared Documents/Attachments/CC8.7a/Equinix Inc CDP RY2016 VOS Final Issued 20170629.pdf</a>		ISO14064-3	100

#### 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
No additional data verified	No additional data verified by auditors. However, Equiix had both location and market-based emissions verified for calendar year 2015 and 2016.

#### 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**

**Page: CC9. Scope 1 Emissions Breakdown - (1 Jan 2016 - 31 Dec 2016)**

---

**CC9.1**

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

Yes

---

**CC9.1a**

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

Country/Region	Scope 1 metric tonnes CO2e
North America	5727
Eastern Europe, Middle East, and Africa (EEMEA)	1666
Asia Pacific (or JAPA)	1984

---

**CC9.2**

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

---

**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
----------	----------------------------------------	----------	-----------

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**CC9.2c**

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

GHG type	Scope 1 emissions (metric tonnes CO2e)
----------	----------------------------------------

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CC9.2d

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

Activity	Scope 1 emissions (metric tonnes CO2e)

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**Further Information**

Equinix Inc CDP RY2016 Verification Report Final Issued 20170629

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**Attachments**

[https://www.cdp.net/sites/2017/67/33267/Climate Change 2017/Shared Documents/Attachments/ClimateChange2017/CC9.Scope1EmissionsBreakdown\(1Jan2016-31Dec2016\)/Equinix Inc CDP RY2016 VOS Final Issued 20170629.pdf](https://www.cdp.net/sites/2017/67/33267/Climate%20Change%202017/Shared%20Documents/Attachments/ClimateChange2017/CC9.Scope1EmissionsBreakdown(1Jan2016-31Dec2016)/Equinix%20Inc%20CDP%20RY2016%20VOS%20Final%20Issued%2020170629.pdf)

**Page: CC10. Scope 2 Emissions Breakdown - (1 Jan 2016 - 31 Dec 2016)**

---

CC10.1

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

Yes

---

CC10.1a

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

Country/Region	Scope 2, location-based (metric tonnes CO2e)	Scope 2, market-based (metric tonnes CO2e)	Purchased and consumed electricity, heat, steam or cooling (MWh)	Purchased and consumed low carbon electricity, heat, steam or cooling accounted in market-based approach (MWh)
North America	561488	387226	1482861	594079
Asia Pacific (or JAPA)	418744	256685	722731	257000
Eastern Europe, Middle East, and Africa (EEMEA)	546606	153881	1512755	1226223

---

**CC10.2**

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

---

CC10.2a

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

Business division	Scope 2, location-based (metric tonnes CO2e)	Scope 2, market-based (metric tonnes CO2e)

---

CC10.2b



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

Facility	Scope 2, location-based (metric tonnes CO2e)	Scope 2, market-based (metric tonnes CO2e)
----------	----------------------------------------------	--------------------------------------------

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CC10.2c

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

Activity	Scope 2, location-based (metric tonnes CO2e)	Scope 2, market-based (metric tonnes CO2e)
----------	----------------------------------------------	--------------------------------------------

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**Further Information**

2016 Verifier Opinion and Report

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**Attachments**

[https://www.cdp.net/sites/2017/67/33267/Climate Change 2017/Shared Documents/Attachments/ClimateChange2017/CC10.Scope2EmissionsBreakdown\(1Jan2016-31Dec2016\)/Equinix Inc CDP RY2016 VOS Final Issued 20170629.pdf](https://www.cdp.net/sites/2017/67/33267/Climate%20Change%202017/Shared%20Documents/Attachments/ClimateChange2017/CC10.Scope2EmissionsBreakdown(1Jan2016-31Dec2016)/Equinix%20Inc%20CDP%20RY2016%20VOS%20Final%20Issued%2020170629.pdf)  
[https://www.cdp.net/sites/2017/67/33267/Climate Change 2017/Shared Documents/Attachments/ClimateChange2017/CC10.Scope2EmissionsBreakdown\(1Jan2016-31Dec2016\)/Equinix Inc CDP RY2016 Verification Report Final Issued 20170629.pdf](https://www.cdp.net/sites/2017/67/33267/Climate%20Change%202017/Shared%20Documents/Attachments/ClimateChange2017/CC10.Scope2EmissionsBreakdown(1Jan2016-31Dec2016)/Equinix%20Inc%20CDP%20RY2016%20Verification%20Report%20Final%20Issued%2020170629.pdf)

**Page: CC11. Energy**

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CC11.1

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

More than 20% but less than or equal to 25%

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**CC11.2**

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

Energy type	MWh
Heat	0
Steam	0
Cooling	26703

---

**CC11.3**

**Please state how much fuel in MWh your organization has consumed (for energy purposes) during the reporting year**

43497

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**CC11.3a**

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

Fuels	MWh
-------	-----

Fuels	MWh
Diesel/Gas oil	20197
Natural gas	23299

#### CC11.4

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

Basis for applying a low carbon emission factor	MWh consumed associated with low carbon electricity, heat, steam or cooling	Emissions factor (in units of metric tonnes CO2e per MWh)	Comment
Direct procurement contract with a grid-connected generator or Power Purchase Agreement (PPA), supported by energy attribute certificates	113272	0	Equinix's Wake Wind Farm came online November 1, 2016 and its Rush Springs Wind Energy Center came online December 1, 2016. Combined we received and retired 113,272 MWh of RECs from these sites which are contracted through a long term direct procurement contract (VPPA) with the generator.
Contract with suppliers or utilities, supported by energy attribute certificates	1249217	0	Equinix contracts with many of its suppliers in Europe to offer high quality green energy backed with certificates or local hydropower supplies. Total coverage in Europe in 2016 was 1,226,223 MWh. In addition, we have "Incentivized" power at two sites in Brazil which offer a low carbon emissions factor due to the renewable energy used on the grid there. Total coverage in Brazil was 22,994 MWh.
Energy attribute certificates, Renewable Energy Certificates (RECs)	457812	0	200,000 MWh of U.S.-based RECs for our California load from January 2016 - August 2016 plus True Up National Wind Green-E certified RECs totaling 257,812 MWh
Energy attribute certificates, I-RECs	257000	0	We purchased 257,000 MWh of high quality IRECs and J-credits to support coverage of our HK1-3 sites and 50% of our Japan load including Bit-isle.

---

**CC11.5**

Please report how much electricity you produce in MWh, and how much electricity you consume in MWh

Total electricity consumed (MWh)	Consumed electricity that is purchased (MWh)	Total electricity produced (MWh)	Total renewable electricity produced (MWh)	Consumed renewable electricity that is produced by company (MWh)	Comment
3691644	3691644	8755	0	0	Equinix has two very small solar panel installations that are not quantified here

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**Further Information**

Example of renewable energy certificates purchased: True Up National Wind Green-E certified RECs totaling 257,812 MWh

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**Attachments**

[https://www.cdp.net/sites/2017/67/33267/Climate Change 2017/Shared Documents/Attachments/ClimateChange2017/CC11.Energy/Green-e\\_Attestation\\_Equinix US Enterprises Inc\\_5013\\_RY2016\\_8490\\_040317.pdf](https://www.cdp.net/sites/2017/67/33267/Climate%20Change%202017/Shared%20Documents/Attachments/ClimateChange2017/CC11.Energy/Green-e_Attestation_Equinix%20US%20Enterprises%20Inc_5013_RY2016_8490_040317.pdf)

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**Page: CC12. Emissions Performance**

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**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	Please explain and include calculation
Emissions reduction activities	24.4	Decrease	Apples to apples Equinix reported 795,669 mtCO2e (9,110 mtCO2e Scope 1 + 791,825 market-based Scope 2) in 2015 vs. 608,311 mtCO2e (8,766 mtCO2e Scope 1 + 599,545 market-based Scope 2) in 2016. This is a large decrease in Market-based Scope 2 emissions. The direction of change is "Decrease" by 196,468 mtCO2e and represents an increase of 24.4% (based on reported 2015 Scope 1+2 emissions of 804,779 mtCO2e). Notably this is driven by emission reduction activities specifically the procurement of renewable energy. In contrast, our actual Electricity Consumption increased during that same time period (2,597 GWh in 2015 to 2,980 GWh in 2016) or a 15% increase in consumption. The reason our electric power consumption grows rapidly is that our IBX data center sites are often new and not fully loaded. This "organic" growth is part of our business model as we fill our data centers with new customers over time, and these customers fill their cabinets with increasingly dense equipment. Hence, even with energy saving measures we can and do increase in energy consumption as our sites become more mature. At the same time we have doubled down on our progress securing low carbon renewable energy for its sites and we now purchase 141% more GWh of renewable energy globally (844 GWh vs. 1,727 GWh for this same set of legacy sites) from 2015 to 2016.
Divestment			
Acquisitions	24.7	Increase	We completed acquisitions of Telecity and Bit-isle last year adding 39 new data centers to our portfolio or 1.3 million sq ft of colocation space. Some of these sites we were able to procure renewable energy for; while others are awaiting "true up" as new products become available and contracts come up for renewal. Equinix is reporting 198,859 mtCO2e (611 mtCO2e Scope 1 + 198,248 market-based Scope 2) from acquisitions in 2016. This represents 24.7% of reported 2015 Scope 1+2 emissions of 804,779 mtCO2e
Mergers			
Change in output			
Change in methodology			
Change in boundary			
Change in physical operating conditions			
Unidentified			

Reason	Emissions value (percentage)	Direction of change	Please explain and include calculation
Other			

**CC12.1b**

Is your emissions performance calculations in CC12.1 and CC12.1a based on a location-based Scope 2 emissions figure or a market-based Scope 2 emissions figure?

Market-based

**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 (Gross global combined Scope 1 and 2 emissions)	Metric denominator: Unit total revenue	Scope 2 figure used	% change from previous year	Direction of change from previous year	Reason for change
0.00022347	metric tonnes CO2e	3611989000	Market-based	24.3	Decrease	Equinix procured significantly more renewable energy in 2016 than in 2015 despite rising electricity consumption and a growing global footprint

**CC12.3**

Please provide any additional intensity (normalized) metrics that are appropriate to your business operations

Intensity figure =	Metric numerator (Gross global combined Scope 1 and 2 emissions)	Metric denominator	Metric denominator: Unit total	Scope 2 figure used	% change from previous year	Direction of change from previous year	Reason for change
134.685	metric tonnes CO2e	full time equivalent (FTE) employee	5993	Market-based	15.6	Decrease	Equinix's acquisitions moved our FTEs from 5,042 in 2015 to 5,993 in 2016 but our carbon footprint only moved from 804,779 to 807,169 mtCO2e.

#### Further Information

**Page: CC13. Emissions Trading**

#### CC13.1

**Do you participate in any emissions trading schemes?**

Yes

#### 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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Scheme name	Period for which data is supplied	Allowances allocated	Allowances purchased	Verified emissions in metric tonnes CO2e	Details of ownership
European Union ETS	Fri 01 Jan 2016 - Sat 31 Dec 2016	370	1473	1319	Facilities we own and operate
Tokyo Cap-and-Trade	Fri 01 Jan 2016 - Sat 31 Dec 2016				Facilities we own and operate

### CC13.1b

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

In Europe, since 2014, Equinix has participated in the EU ETS although to varying degrees around the region. Within the UK, in since 2015 our LD4, LD5, LD6, and LD9 data centers qualify and are registered EU-ETS participants as they have an installed and qualifying generator thermal capacity of greater than 20MWtherml. LD10 is currently being on boarded for EU-ETS and will be adopted into a single agreement with former Telecity locations LD8 and LD9. In 2016 our emissions for the four London sites were 846 mtCO2e and our EUA allowances purchased were 1,000. We also participate in the Netherlands at AM1, AM2, AM3, and AM5 where the relevant emissions total 473 mtCO2e; with 370 allowances allocated and 473 allowances purchased. We are expanding the program to including French sites in 2017 (PA2, PA3, PA4, and PA6) which are in the permit acquisition phase and will report emissions and allowances by March 31, 2018. We are also looking at EU ETS permits for our Dublin sites DB2, DB3, and DB4.

To meet our obligations arising from this scheme, we are working with a consultant to conduct qualification assessments and apply to add sites to the scheme and put permits in place. Equinix does not have a free allocation and is fully exposed to market driven allowance price. With our consultant, we have developed monitoring plan, where on a monthly basis we track our performance and as a minimum on an annual basis evaluate our performance. In the regular meetings with the consultant, we ensure being on the top of the legislation and legislative requirements of the scheme. Part of our management strategy is having regular energy audits, data collection and verification. Our focus on environmental and energy regulations enable us to benefit from the varying schemes by optimizing and limiting our exposure through utilization of the appropriate instrument and ensures and our ongoing compliance.

In Japan, the TMG (Tokyo Metropolitan Government) launched Tokyo Climate Change Strategy in June 2007 to fight against global warming. In March 2009, TMG set the cap for the first compliance period (fiscal 2010 to fiscal 2014). This aims to reduce total emissions among the capped sectors by 8% (But in case of TMG approval, reduction percentage can be lowered into 6% for a facility) from the base-year emissions. Equinix has been involved since the beginning of the program in 2009. The 1st compliance period of 2009-2014 has ended and the results show that Equinix sites were well below the capped baseline and thus incurred no penalties and there was no need for Equinix to purchase any carbon credit. On the 2nd compliance period of 2015-2020, the carbon cap for Equinix has been increased as the capacity of our data centers has increased (aka we were rebaselined). In addition for this second compliance period Equinix will consolidate the new acquired Bit-Isle sites. Equinix, like any other major companies, financial institutions and other business groups in Tokyo, is keenly interested in this program and plans to achieve the target specified. Continuous energy measurement, progressive energy saving research and implementation of energy savings in Equinix



Tokyo sites is always in the first priority in order to be able to achieve the reduction target set by TMG.

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**CC13.2**

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

Yes

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**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 CO2e)	Number of credits (metric tonnes CO2e): Risk adjusted volume	Credits canceled	Purpose, e.g. compliance
Credit purchase	Solar	9,215 J-credits from solar installations vintage 2013	Other: J Credit scheme	9215	9215	Yes	Voluntary Offsetting

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**Further Information**

**Page: CC14. Scope 3 Emissions**

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**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	Relevant, not yet calculated	0	No methodology in place yet	0.00%	Equinix purchases some additional goods and services however Scope 3 emissions from their production are not quantified
Capital goods	Relevant, not yet calculated	0	No methodology in place yet	0.00%	Equinix purchases capital goods however Scope 3 emissions from their production are not quantified (Scope 1 and 2 emissions from their use are included in this inventory).
Fuel-and-energy-related activities (not included in Scope 1 or 2)	Not relevant, explanation provided	0	Not relevant	0.00%	Equinix has included all of its fuel and energy-related activities in its Scope 1 and Scope 2 estimates
Upstream transportation and distribution	Not relevant, explanation provided	0	Not relevant	0.00%	Equinix does not produce or sell goods
Waste generated in operations	Not relevant, explanation provided	0	Not relevant	0.00%	Equinix does not generate a significant amount of waste
Business travel	Relevant, calculated	10024	2016 employee air travel mileage was gathered and generalized emissions factors (kg carbon per mile) were applied. The resulting emissions of 10,024 mtCO2e are tiny when compared to our Scope 2 market based emissions of 797,792 mtCO2 (aka about 1%).	80.00%	Equinix used American Express from Jan-April 2016 and Egencia/Expedia from April-Dec 2016 to manage air travel. AMEX provided FY2016 air travel mileage and carbon emissions factors for N. American based employees only. Egencia provided April to December for all employees. We estimate that up to 20% of the annual Scope 3 air travel data is missing. In addition, it is possible that additional air travel emissions existed outside the booking system but these are currently not quantifiable.
Employee commuting	Relevant, not yet calculated	0	Not relevant	0.00%	Equinix has not yet quantified emissions from employee commuting however in 2016 we only had 5,993 employees including Telecity and Bit-Isle

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
Upstream leased assets	Not relevant, explanation provided	0	Not relevant	0.00%	Equinix's leased assets are included in this inventory
Downstream transportation and distribution	Not relevant, explanation provided	0	Not relevant	0.00%	Equinix does not produce or sell goods
Processing of sold products	Not relevant, explanation provided	0	Not relevant	0.00%	Equinix is not a manufacturer
Use of sold products	Not relevant, explanation provided	0	Not relevant	0.00%	Equinix does not produce or sell goods and emissions from data center IT equipment loads of our customers are already included in our Scope 2 estimates
End of life treatment of sold products	Not relevant, explanation provided	0	Not relevant	0.00%	Equinix does not produce or sell goods
Downstream leased assets	Not relevant, explanation provided	0	Not relevant	0.00%	Equinix's leased assets are included in this inventory
Franchises	Not relevant, explanation provided	0	Not relevant	0.00%	Equinix does not franchise
Investments	Not relevant, explanation provided	0	Not relevant	0.00%	Equinix's boundary includes operational control of investments
Other (upstream)					
Other (downstream)					

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**CC14.2**

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

Third party verification or assurance process in place

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**CC14.2a**

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

Verification or assurance cycle in place	Status in the current reporting year	Type of verification or assurance	Attach the statement	Page/Section reference	Relevant standard	Proportion of reported Scope 3 emissions verified (%)
Annual process	First year it has taken place	Limited assurance	<a href="https://www.cdp.net/sites/2017/67/33267/Climate%20Change%202017/Shared%20Documents/Attachments/CC14.2a/Equinix%20Inc%20CDP%20RY2016%20Verification%20Report%20Final%20Issued%2020170629.pdf">https://www.cdp.net/sites/2017/67/33267/Climate Change 2017/Shared Documents/Attachments/CC14.2a/Equinix Inc CDP RY2016 Verification Report Final Issued 20170629.pdf</a>	10,023.52 mtCO <sub>2</sub> e of business air travel was verified and represents roughly 80% of Equinix's 2016 business travel	ISO14064-3	80

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**CC14.3**

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

Yes

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**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
Business travel	Acquisitions	34	Increase	Due to the 19% increase in full time employees (5,042 to 5,993) as well as increased globalization and expansion, Equinix's business travel Scope 3 carbon emissions increased from 6,331 mtCO2e (2014) to 7,462 mtCO2e (2015) to 10,024 mtCO2e (2016). This represents a 34% increase YoY.

#### 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)

Yes, our customers

Yes, other partners in the value chain

#### CC14.4a

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

i. Methods of engagement: We engage our customers around the impact of our operations and their environmental footprints within Equinix. Our long term goal of using 100% clean and renewable energy to power our data centers has been communicated through our website, brochures, and press releases, as well as through in-person events where we engage with a variety of groups, peers, and competitors.

a. For example, in 2015 Equinix engaged customers and partners by working with the following groups: Corporate Renewable Energy Buyers' Principles (member), Business for Renewables Center (BRC) (member), RE100 (member), White House American Business Act on Climate Pledge (signatory), EPA Green Power Partnership (member, ranking 19th on Top 100 list and 6th on Tech and Telecom, Future of Internet Power (advisor), Center for Resource Solutions (discussion), Ecovadis (survey participant), NAREIT Leader in the Light (participant).

b. We participate in conferences and small group meetings as well as email and phone calls.

c. Equinix also engages with its customers and potential customers through a variety of channels. For examples: RFPs, MSA reviews, one off requests, etc. We share data and information around metrics such as energy use, carbon emissions, power usage effectiveness (PUE), water efficiency measures including rainwater

capture and greywater usage. We also share information about the latest upgrades, retrofits and innovative systems including adaptive control systems that reduce our lighting energy needs and make our cooling systems more efficient.

d. The Global Utilities & Sustainability team works closely with the global sales, marketing, and investor relations teams to ensure that questions around Equinix's environmental footprint and commitment to sustainability are communicated in a globally consistent way. Various members of that team and others around the world in groups such as Design and Construction, Ops Engineering, Design Engineering, etc. participate in industry efforts to green the data center industry including actively working with customers, NGOs, and local governments around the world.

ii. **Prioritizing:** Our customers are our highest priority and we seek to provide industry leading reliability and interconnection while at the same time designing, building, and operating in an environmentally sustainable way. We look for a variety of opportunities ranging from renewable energy power purchase agreements, bundled green power, energy efficiency opportunities ranging from complex (new mechanical electrical components or configurations) to low hanging fruit (blinking panels), green building standards such as USGBC LEED, other standards such as ISO 14001, ISO 50001, local green building standards such as SS 564 (Singapore), NABERS (Australia), etc. We respond to all regulatory requirements including EU-ETS, CCAs (Climate Change Agreements), EU CoD (Code of Conduct for Data Centres), etc. We look for measures that are cost competitive but also balance the principles Equinix values – which include: ) utilizing renewable and low carbon energy; 2) preference for local sources of energy; 3) preference for new or recently built energy sources; 3) seeking favorable renewable energy policies when locating new data centers; 3) providing regular updates on our sustainability goals and progress to improve focus and transparency.

iii. **Measures of success:** We set internal goals and benchmark ourselves both internally and against customers and competitors. We signed more MWs of new renewable energy (solar and wind) than any other colocation provider last year (330 MW) and our totals comprised nearly 10% of all corporate renewable energy signed globally. We communicate this progress to our customers who recognize that by locating in an Equinix data center they can achieve their sustainability goals. Where we do not yet have solutions in place, we work to find custom solutions for our customers, for example we have procured RECs on behalf of a subset of customers to cover their loads within Equinix in 2014 and 2015. Given our amazing progress in 2015, we are currently 33.5% renewable across our global portfolio as of the end of 2015 on a MWh basis. And we are continuing to look for global solutions that will move the needle toward 100% renewable. In fact, when our wind farms come online at the end of 2016, we expect to be 100% renewable in North America, and 82% renewable globally.

**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

Type of engagement	Number of suppliers	% of total spend (direct and indirect)	Impact of engagement

**CC14.4c**

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

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**Further Information**

Please see our Green by Design webpage for more information on engagement: <http://www.equinix.com/company/green/>. Please also review our Sustainability Report which will be updated on July 20th and published also on <http://www.equinix.com/company/sustainability/>.

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**Attachments**

[https://www.cdp.net/sites/2017/67/33267/Climate Change 2017/Shared Documents/Attachments/ClimateChange2017/CC14.Scope3Emissions/Equinix Green by Design Website-as of June 2017.pdf](https://www.cdp.net/sites/2017/67/33267/Climate%20Change%202017/Shared%20Documents/Attachments/ClimateChange2017/CC14.Scope3Emissions/Equinix%20Green%20by%20Design%20Website-as%20of%20June%202017.pdf)  
[https://www.cdp.net/sites/2017/67/33267/Climate Change 2017/Shared Documents/Attachments/ClimateChange2017/CC14.Scope3Emissions/Equinix 2015 Corporate Sustainability Report.pdf](https://www.cdp.net/sites/2017/67/33267/Climate%20Change%202017/Shared%20Documents/Attachments/ClimateChange2017/CC14.Scope3Emissions/Equinix%202015%20Corporate%20Sustainability%20Report.pdf)

**Module: Sign Off****Page: CC15. Sign Off**

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**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
Sam Kapoor	Chief Global Operations Officer	Other C-Suite Officer

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**Further Information****Module: ICT****Page: ICT1. Data center activities**

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**ICT0.1a**

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

Yes

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**ICT1.1**

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

Equinix, Inc. (Nasdaq: EQIX) connects the world's leading businesses to their customers, employees and partners inside the most interconnected data centers. Across five continents, Equinix is where companies come together to realize new opportunities and accelerate their business, IT and cloud strategies.

As the world economy becomes increasingly digitized, businesses require instant, secure, robust global interconnection to collaborate, compete and grow. We've spent 17 years and \$12.5 billion building a global platform that provides exactly the interconnection they need.

Platform Equinix™ includes 145 International Business Exchange™ (IBX®) data centers in 40 metros in 21 countries. Equinix IBX data centers offer much more than just state-of-the-art, carrier-neutral colocation space. Equinix's facilities also host 8,000+ customers from every major industry ecosystem, enabling major networks, enterprises and business partners to interconnect to each other and to more than 1,150+ available networks. These customers have created robust digital ecosystems for cloud, mobility, content and financial services inside Equinix. When customers locate their data in an Equinix data center, they are surrounded by opportunities to make new interconnections across regions and businesses with partners, service providers and networks.

We also give our customers numerous ways to connect, including direct cross connects, peering and cloud services. And every Equinix IBX data center delivers operational expertise, standards compliance and physical security to safeguard our customers' valuable information.

Equinix IBX data centers provide:

**Reliability**—All Equinix IBX data centers are equipped with full UPS power, backup systems and N+1 (or greater) redundancy, with a proven, industry-leading >99.9999% uptime record.

**Power Density**—With robust heating, ventilation and air conditioning systems, Equinix IBX data centers exceed the requirements of even the most power-hungry deployments.

**Security**—Each Equinix IBX data center utilizes an array of security equipment, techniques and procedures to control, monitor and record access to the facility, including individual cages.

**Recovery**—IBXflex™ Space provides operations centers and storage space when our customers need it. Equinix Smart Hands™ offers 24-hour access to qualified technical support. With Equinix, our customers can maintain mission-critical operations and equipment under any circumstances.

**Proven Expertise**—We can help our customers configure and support their high-power density deployments. Equinix Professional Services offers practical guidance and proven solutions to help you optimize and future-proof your data center architecture. Our Professional Services experts have decades of specialized data center expertise and hands-on experience in assessing, enabling, migrating, optimizing, planning, designing, testing and deploying IT infrastructure, networks and cloud architectures.



We've built our leading market position on commitments to disciplined global expansion, thriving digital ecosystems and operational excellence. We believe these commitments will allow us to continue to meet our customers' evolving needs in an increasingly digital and interconnected future.

### 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	Comment
Data centers	9377	797792	3691644	Meter or submeter reading	Scope 2 emissions-Location Based 1526837(metric tonnes CO2e) Market Based-797792(metric tonnes CO2e) Equinix has a mix of sites most with meter or submeter readings and a few with pro-rated share from landlords The Scope 2 emissions are the Market Based figures (797,792 mtCO2e). Equinix's location based Scope 2 emissions are: 1,526,837 metric tonnes CO2e. In 2017 we procured 2,077 GWh of low carbon renewable energy. This results in 56% renewable energy across our global portfolio and an avoidance of 729,045 mtCO2e

### 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
99%	PUE is measured at almost all Equinix sites around the world with exceptions for some sites with landlord controlled infrastructure or sites that comprise our business continuity / disaster response portfolio

### 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)

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**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
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**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**

Other: With 150 sites in 2016, measurement of PUE varies site to site. Some sites utilize snapshot average kW and other sites use kWh collected monthly or 12 month rolling either from meter readings or utility bills for the utility load totals. In general Equinix has a near term goal of standardizing on Green Grid PUE 1 which requires 12 month rolling meter data and is currently installing appropriate metering and remote access options into sites around the world to enable a real-time monitoring of PUE within the data centers

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**ICT1.6**

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

Yes

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**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)**

Equinix is beginning to quantify emissions intensity in terms of customer cabinets installed. Cabinets are a better measure of how large a site is relative to others and hence how much energy it might be using. Compared to other intensity metrics such as revenue or employees, the operations team exerts control over both the emissions of the electricity purchases as well as the cabinet density and deployments

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**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
Implemented	Cooling Efficiencies	119 Energy Efficiency Program (EEP) projects have been completed from 2011 to 2016 of which 46 (\$22 million of investment) were completed in 2016. Efficiency measures included: chiller upgrades, granular temperature control systems, and UPS upgrades

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**ICT1.8**

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

Yes

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**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
EPA Energy Star	Equinix participates in the U.S. EPA Energy Star certification program. In 2016 the Energy Star award count was 10: CH3, DC2, NY4, SE3, SV2, SV3, SV4, SV5, LA3, LA4. EPA Energy Star is only active in the U.S.	6.6%
EU Code of Conduct	Equinix is a participant in EU Code of Conduct for Data Centres - Created in response to increasing energy consumption in data centres and the need to reduce the related environmental, economic and energy supply security impacts. All participants have the obligation to continuously monitor energy consumption and adopt energy management in order to look for continuous improvement in energy efficiency. Equinix has been granted the status of 'Corporate Participant' since January 2012. <a href="https://e3p.jrc.ec.europa.eu/communities/data-centres-code-conduct">https://e3p.jrc.ec.europa.eu/communities/data-centres-code-conduct</a>	7%
LEED	To date 1.3 million sq feet of data center colocation space or about 20% of our global footprint has achieved Leadership in Energy and Environmental Design (LEED) certification	20%

#### ICT1.9

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

Yes

#### ICT1.9a

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

This information is confidential

#### ICT1.10

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

Yes

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**ICT1.10a****How do you provide carbon emissions data to your clients regarding the data center services they procure?**

We provide our global and regional carbon emissions data in our Annual Sustainability Report located here: <http://www.equinix.com/company/sustainability/>, our Green by Design webpage located here: <http://www.equinix.com/company/green/>, through CDP disclosure, ECOVADIS, and GRESB (Global Real Estate Sustainability Benchmark). We also provide more granular data by request to our customers and partners including NGOs

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**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**

At Equinix, we look for ways to minimize our carbon footprint and deploy more renewable energy on our local electricity grids, because we understand the role we play in our customers' supply chains. In partnership with over 8,000 businesses worldwide, we seek to be the place where opportunity connects and where customers not only find world-class data centers, but also find unique, industry-leading alternatives to green their own footprints by collocated within an Equinix data center.

In 2015 we published a long term aspirational goal to reach 100% clean and renewable energy across our global portfolio. We also publish an intermediate goal of reaching 50% by end of 2017 against our 2015 baseline (re100.org). In 2016, we exceeded our public RE100 and we are thrilled to report that our 56% renewable energy coverage (or 79% against 2015) has greatly exceeded our goal and keeps us on track towards our larger goal.

Highlights of our 2016 renewable energy procurement strategy:

- 225 MW of utility-scale renewables under long-term power purchase agreement (PPA) contracts and operational as of Nov. 1 and Dec. 1, 2016 respectively
  - o 100 MW in West Texas (Rush Springs Wind Energy Center)
  - o 125 MW in Oklahoma (Wake Wind Energy Center)
- Additional 457,000 MWh of U.S. wind renewable energy certificates (RECs) purchased in 2016
  - o 358,000 MWh for California sites
  - o 99,000 MWh of other coverage
- U.S. combined PPA and REC equaled 42% coverage
  - o Totalling 594,000 MWh of renewable energy
- Europe utility-green products and delivered hydropower result in 81% coverage
  - o 99% EMEA coverage at all legacy Equinix sites
  - o 53% for Telecity sites which are undergoing an ongoing true up process following our 2016 acquisition of Telecity
  - o Totalling 1,226,000 MWh of renewable energy
- Asia-Pacific International RECs (I-RECs) and Japan Greenhouse Gas Emission Reduction/Removal Certification Scheme credits (J-credits) coverage
  - o 100% coverage for Hong Kong (HK1-3)
  - o 50% coverage for Japan incl. Bit-isle
  - o Totalling 257,000 MWh of renewable energy
- Global total renewables usage of 2,077 GWh in 2016 or 56% against our total electricity consumption of 3,691 GWh.

Our goal of reaching 100% renewable energy has also inspired us to seek leadership and advocacy opportunities. As detailed in our Climate Change Investor Survey we participate in numerous renewable-energy focused organizations such as RE100, Business Renewable Energy, Renewable Energy Buyers' Alliance; and we actively work with our utilities to seek more renewable energy.

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#### Further Information

Please see our 2015 Corporate Sustainability Report for more information about us. Our 2016 report will be published July 20th. Please also see our 2016 Emissions Verification Report

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#### Attachments

[https://www.cdp.net/sites/2017/67/33267/Climate Change 2017/Shared Documents/Attachments/ClimateChange2017/ICT1.Datacenteractivities/Equinix 2015 Corporate Sustainability Report.pdf](https://www.cdp.net/sites/2017/67/33267/Climate%20Change%202017/Shared%20Documents/Attachments/ClimateChange2017/ICT1.Datacenteractivities/Equinix%202015%20Corporate%20Sustainability%20Report.pdf)  
[https://www.cdp.net/sites/2017/67/33267/Climate Change 2017/Shared Documents/Attachments/ClimateChange2017/ICT1.Datacenteractivities/Equinix Inc CDP RY2016 Verification Report Final Issued 20170629.pdf](https://www.cdp.net/sites/2017/67/33267/Climate%20Change%202017/Shared%20Documents/Attachments/ClimateChange2017/ICT1.Datacenteractivities/Equinix%20Inc%20CDP%20RY2016%20Verification%20Report%20Final%20Issued%2020170629.pdf)

#### Page: **ICT2. Provision of network/connectivity services**

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##### ICT0.1b

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

No

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##### ICT2.1

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

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##### 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	Comment
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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	Comment
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**ICT2.4**

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

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**ICT2.5**

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

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**ICT2.5a**

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

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**Further Information**

**Page: ICT3. Manufacture or assembly of hardware/components**

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**ICT0.1c**

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

No

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**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	Comment
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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

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**ICT3.6**

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

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**ICT3.7**

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

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ICT3.7a

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

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**Further Information**

**Page: ICT4. Manufacture of software**

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ICT0.1d

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

No

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ICT4.1

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

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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	Comment
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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	Comment
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**ICT4.4**

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

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**ICT4.5**

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

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**ICT4.5a**

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

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**Further Information**

**Page: ICT5. Business services (office based activities)**

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**ICT0.1e**

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

No

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**ICT5.1**

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

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**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	Comment
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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	Comment
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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	Comment
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**Further Information**

**Page: ICT6. Other activities**

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**ICT0.1f**

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

No

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**ICT6.1**

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

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**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	Comment
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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	Comment
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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	Comment
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**Further Information**

**CDP 2017 Climate Change 2017 Information Request**