RE100

GROWING MARKET DEMAND FOR RENEWABLE POWER

RE100 ANNUAL REPORT 2016

BROUGHT TO YOU BY

THE CLIMATE GROUP

IN PARTNERSHIP WITH

CDP
DRIVING SUSTAINABLE ECONOMIES

AS PART OF

WE MEAN BUSINESS


RE
100

INTRODUCTION

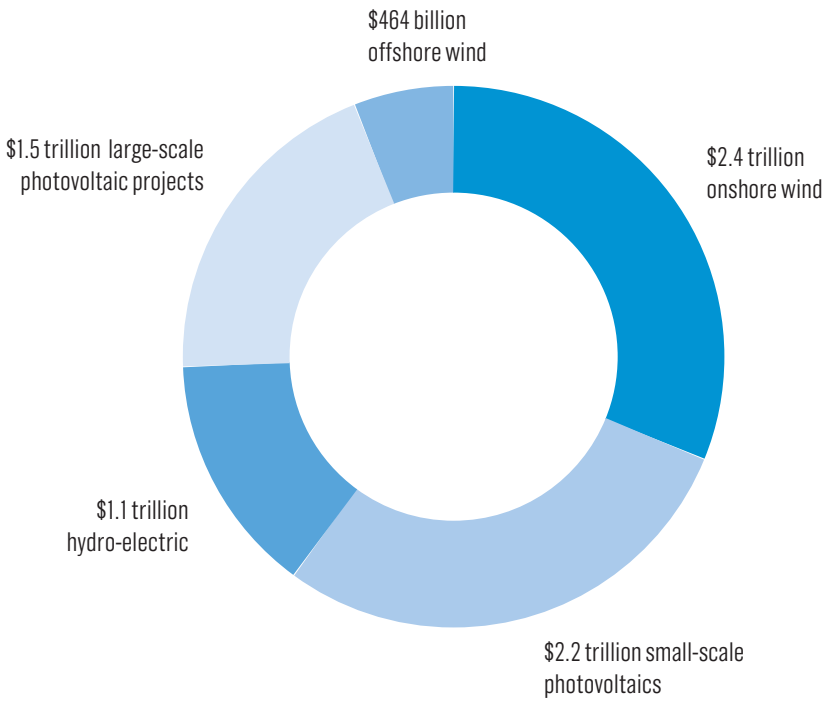
In 2014, half of all new power capacity was from renewable sources. Renewables now generate 22.8% of all global electricity use – and this is set to grow further still.[1] Looking at economic data, changing policy, power capacity patterns and global demand, we can see that there are multiple reasons for this inevitable shift to renewable sources of power generation.

GOOD ECONOMIC SENSE

The cost of renewable power technologies is continuing to drop, which is strengthening the economic case for switching to renewable power.

Analysis by Bloomberg New Energy Finance indicates that $8 trillion – two thirds of the total spent on new power generation capacity between now and 2040 – will be invested in renewable energy technologies.[2] Estimations indicate the following breakdown:

CHART: PROJECTED INVESTMENT TO 2040 IN RENEWABLE ELECTRICITY GENERATION (BY TECHNOLOGY)



Part of this forecast is based on the incredible price competitiveness of solar and wind. It is anticipated that by 2030 it will be cheaper to choose wind and solar than coal or gas in most countries. It is also expected that project costs of solar will fall by 47% and wind by 32% by 2040. The cost benefits alone will eventually ensure renewables are the first choice for investment in new power generation.

TACKLING CLIMATE CHANGE

Switching to renewable sources of power generation is a straightforward way to cut greenhouse gas emissions. Roughly a third of all CO_2 emissions and a quarter of global greenhouse gas emissions are from electricity and heat.[3]

The International Energy Agency projects that by 2030, 42% of electricity will need to be supplied by renewables, increasing to 57% in 2050, to stay within a 2 degree Celsius average global warming threshold.[4] This means between now and 2030 the world needs to double its current renewable power capacity.

In December 2015, the Paris Agreement set global sights on a more ambitious 1.5 degree Celsius path, making further acceleration of renewable electricity critical.

INCREASED DEMAND FOR RENEWABLES

Electricity users have not typically been part of the decision making process in development of new infrastructure or new grid based capacity. However, as major companies have taken a leadership position on climate change they are switching to renewable forms of energy – including electricity. This will help them to reach their own carbon reduction targets.

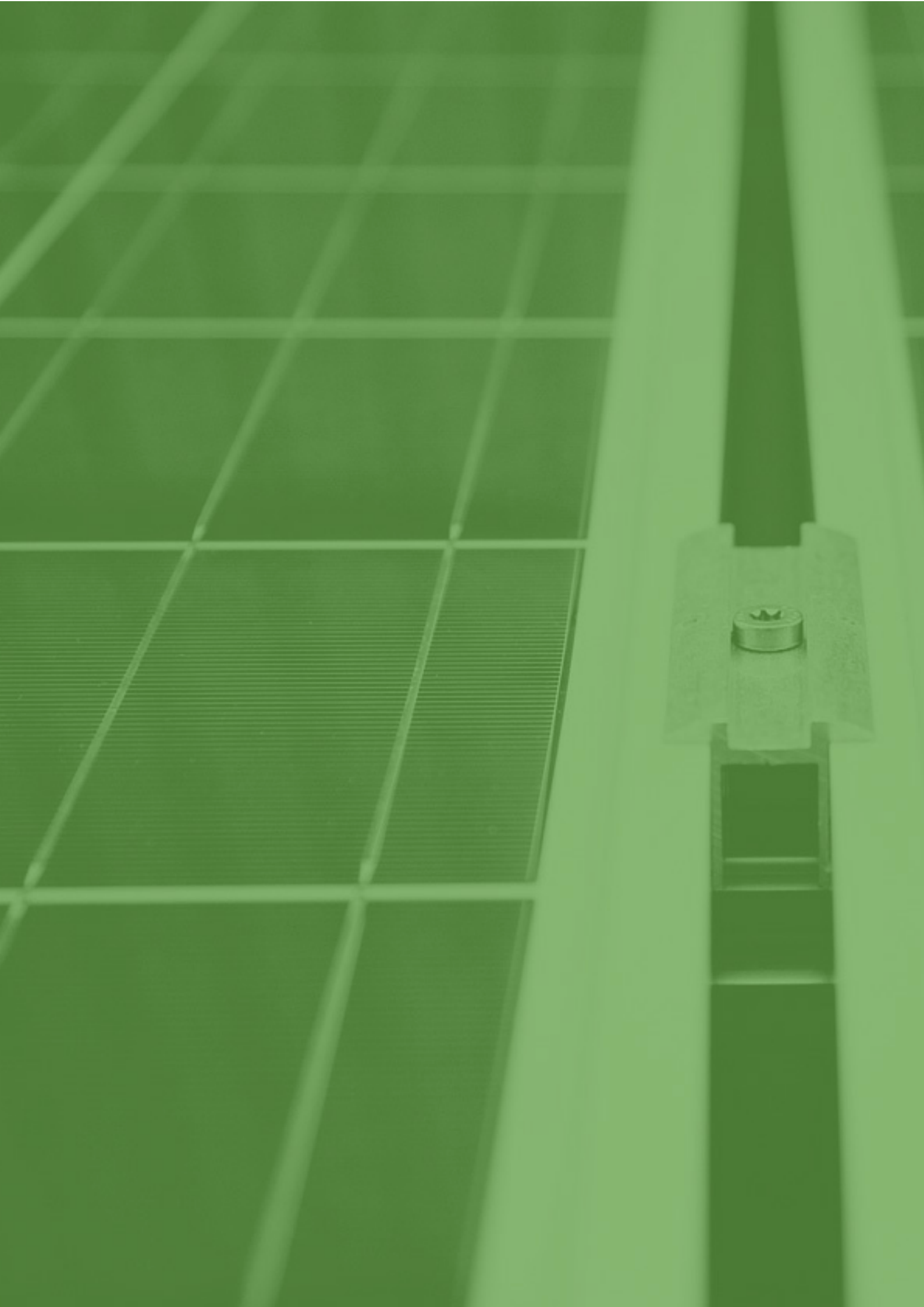
There are now an increasing number of companies, investors, cities and citizens that have set renewable power targets and this is driving change in the market place. Electricity utilities and policymakers now need to consider the source of electricity that is wanted – not just the quantity, location or timing.

SUPPORTIVE POLICY

In 2015, at least 164 countries had renewable energy targets, and an estimated 145 countries had renewable energy support policies in place.[5]

Targets and policies are particularly important in emerging economies where massive investments in power generation are needed to fuel development. It is critical that economic growth is powered by renewables to avoid dangerous and expensive lock-in of fossil fuel technologies.

Bloomberg New Energy Finance estimates that of the $12.2 trillion to be invested in power generation over the next 25 years, almost 80% of it will be deployed in developing countries.[6] Two thirds of this investment is expected to be in renewables, enabling counties to 'leap frog' to better technologies. This will serve emerging economies well – not only will it provide affordable power to enable economic growth, it will do so without creating the health problems or high water demand related to using fossil fuels.



ACCELERATING PROGRESS

The shift to renewables that is currently underway can be accelerated if more companies use their purchasing power to procure and generate electricity from renewable sources. This is the focus of the RE100 campaign[7],led by The Climate Group in partnership with CDP.

The RE100 campaign is aimed at getting the world's most influential companies to commit to – and achieve – 100% renewable power. This will create a visible and credit-worthy customer base to demonstrate the viability of market demand and give confidence to producers and investors.

Dramatically scaling renewable power in the next five years will lead to significant carbon emissions reductions from the power sector. However, there are many other broader benefits for business – including financial benefits.

Many companies aim to use 100% renewable energy as well as 100% renewable electricity. They cite a number of reasons setting such a goal:

- To reduce their carbon footprint – in some cases, companies have specifically set science based targets[8] to map their greenhouse gas emissions reductions, and switching to renewable energy is part of their strategy.
- To secure stable energy bills and mitigate fluctuating or uncertain medium to long-term energy costs.
- To realize cost savings associated with generating power from renewables – particularly wind and solar.
- To gain cost benefits of onsite combined heat and power plants – particularly where there is a low or no-cost waste or biomass feedstock.
- To access a more reliable electricity supply in areas where there is no or intermittent grid electricity.

In most cases it is a combination of different drivers that motivates a company to set a 100% goal – be it for renewable energy or renewable electricity.

By tracking and reporting on progress being made by RE100 companies toward their 100% renewable electricity goals, RE100 aims to encourage other companies to do the same.

It is also important to understand the challenges and barriers that need to be overcome to speed up the journey to 100% renewable power – something RE100 sets out to achieve.

MAKING GOOD PROGRESS

As of January 2016, the RE100 campaign now has over 50 companies on board – compared to 15 in January 2015. This growth has occurred across all sectors, but primarily includes companies headquartered in Europe and North America. This is perhaps unsurprising, given that these markets hold the most easily accessible options for corporates to obtain renewable power in those regions.

However, there has been increased interest from companies in India and China as a result of outreach in those regions and it is anticipated that as the business benefits and options are better understood, the number of companies committing to 100% renewable electricity will increase.

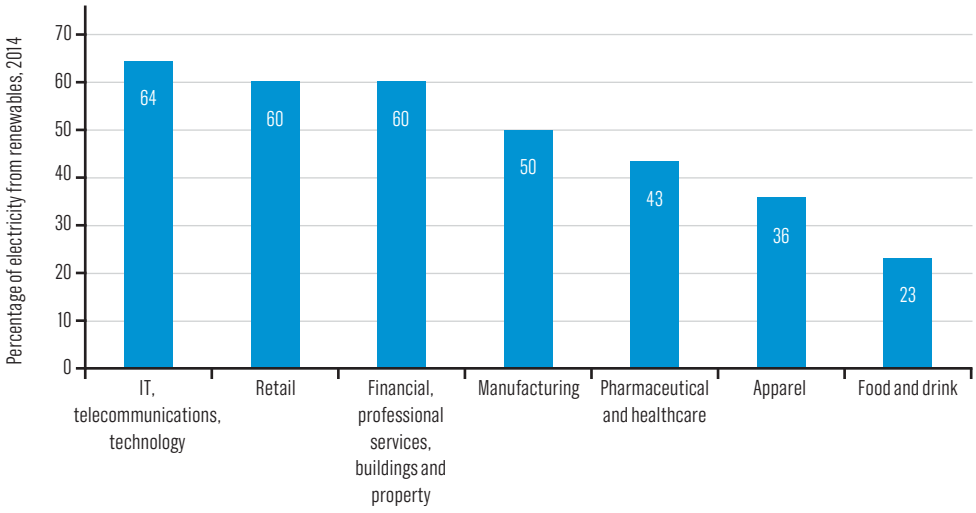
The companies in RE100 have different target years for reaching 100% renewable electricity. Many have set interim targets to help keep themselves on track. Most importantly, companies are not just setting targets, they are achieving them.

The latest available data (2014) shows that on average, RE100 companies are 50% of the way to meeting their 100% renewable electricity goals. Some have already reached 100%. Taking into account interim targets and end goals for reaching 100% renewable electricity, it is projected that the current group will reach an average of 80% by 2020.

PROGRESS ACROSS SECTORS

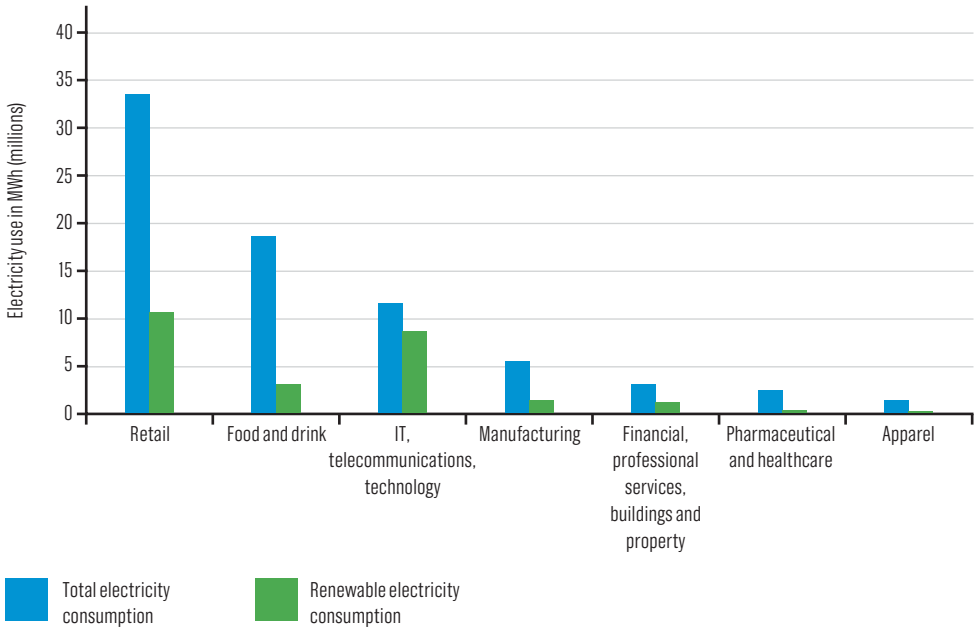
While all sectors show progress, the ICT sector is leading the way. Companies in this sector are, on average, 64% of the way to meeting their targets.

CHART: RE100 COMPANY - AVERAGE PROGRESS AGAINST 100% GOAL (BY SECTOR, 2014)



The chart on the next page shows progress in terms of the amount of electricity being sourced from renewables in megawatt hours (MWh).

CHART: RE100 TOTAL AND RENEWABLE ELECTRICITY CONSUMPTION (BY SECTOR, 2014)



Retail accounts for the highest electricity use (and largest amount of renewable electricity purchased and generated) of all sectors represented by RE100 companies.

A range of approaches is being used by companies in different sectors to switch to renewable power, based on the amount and location of power required (see Appendix for details). This is a reflection of the nature of the opportunities available and challenges being faced.

RETAIL

Several large retailers have joined RE100. These companies have large power requirements, either due to the huge scale of their operations, such as Walmart, or because they own their manufacturing facilities, such as IKEA.

The progress this sector has made is due to multiple strategies. Many companies have power purchase agreements (PPAs) that secure renewable power in specific regions. Most companies have some form of on-site renewable resource, typically solar. And in IKEA's case, they are making direct investments in their own wind projects to generate as much power as they use.

Companies in this sector are also seeking to influence their supply chain and many are engaging directly with suppliers to encourage use of renewable power where there is a strong business case.

FOOD & DRINK, PHARMACEUTICAL, HEALTHCARE AND MANUFACTURING

The food and drink sector has been one of the first to see the direct impacts of climate change. The increase in extreme weather events, extreme temperatures and changes in average temperatures is having a massive effect on growing seasons and harvest yields of many raw materials.

All food and drink companies in the RE100 campaign are proactively working with farmers and growers to improve a range of environmental and social standards. Committing to switch to renewables as part of an overarching sustainability strategy is at the heart of motivation for these businesses.

The healthcare sector is also seeing first-hand the impact of climate change. Burning fossil fuels has created dangerous levels of air pollution in many parts of the world and respiratory problems have increased as a result. In addition, the World Health Organisation predicts that between 2030 and 2050 climate change is likely to cause around 250,000 deaths from malnutrition, malaria, diarrhea and heat stress.[9]

Although there are different drivers for companies in these sectors to go 100% renewable, the challenges are similar. They have a mixture of heating, lighting and mechanical power requirements, and often there is a need for energy intensive heating or drying within their manufacturing processes. Not surprisingly this has led many of them to set 100% renewable energy targets that include heat as well as power.

Most of the companies within these sectors utilize combined heat and power plants at sites with large heat requirements. In some cases, they may also have waste streams that can be used as a fuel stock. Anaerobic digestion plants are also being used to produce biogas for use in boilers at some locations.

But one of the biggest challenges faced by RE100 companies in this sector is operating in locations where sourcing the amounts of renewable power needed is not currently possible – and due to the amount of power used, purchasing renewable energy certificates does not make business sense either.

INFORMATION & COMMUNICATIONS TECHNOLOGY (ICT)

The growth of cloud computing is behind the increasing electricity consumption of internet companies. The silver lining for climate change though, is that many of the world's ICT giants have made 100% renewable power commitments and are seeking to install or access renewable power where they are building new research labs and data centers. Although many of these renewable energy pioneers say they don't want to become power companies, the lack of responsiveness from utilities in some regions has forced them to do exactly this. The question is whether this trend will continue or whether more proactive and creative solutions will be developed by the power sector.

In all cases, ICT companies are using PPAs to secure renewable power either from responsive power utilities or from renewable developers directly. Most also have their own on-site installations.

In some cases, companies are using renewable energy certificates as a bridging option – choosing this option to enable a quick solution to meeting renewable power targets while they implement longer term solutions such as on-site generation or PPAs.

As this business sector grows, developing options for accessing renewable power will

increasingly play a role in siting new locations. This provides a real opportunity for states and regions that are taking a leadership role on supporting renewable power development – not just in terms of financial incentives, but sometimes more efficient planning permissions and grid access can play a large role.

FINANCE, PROFESSIONAL SERVICES, LOGISTICS AND REAL ESTATE

The majority of power consumption for these sectors is lighting, use of electronic devices, heating and cooling of offices. The progress made in this sector is largely due to the availability of green power options in the regions they are based or because the company is purchasing renewable energy certificates.

These options often come at a cost, and so the strategic decision to be 100% renewable is being taken due to other business benefits, such as an improved reputation, demonstrating climate leadership and – perhaps most importantly – in the context of their role as investors or advisers on renewable power, they need to have their own house in order to demonstrate credibility in supporting the growth of renewables.

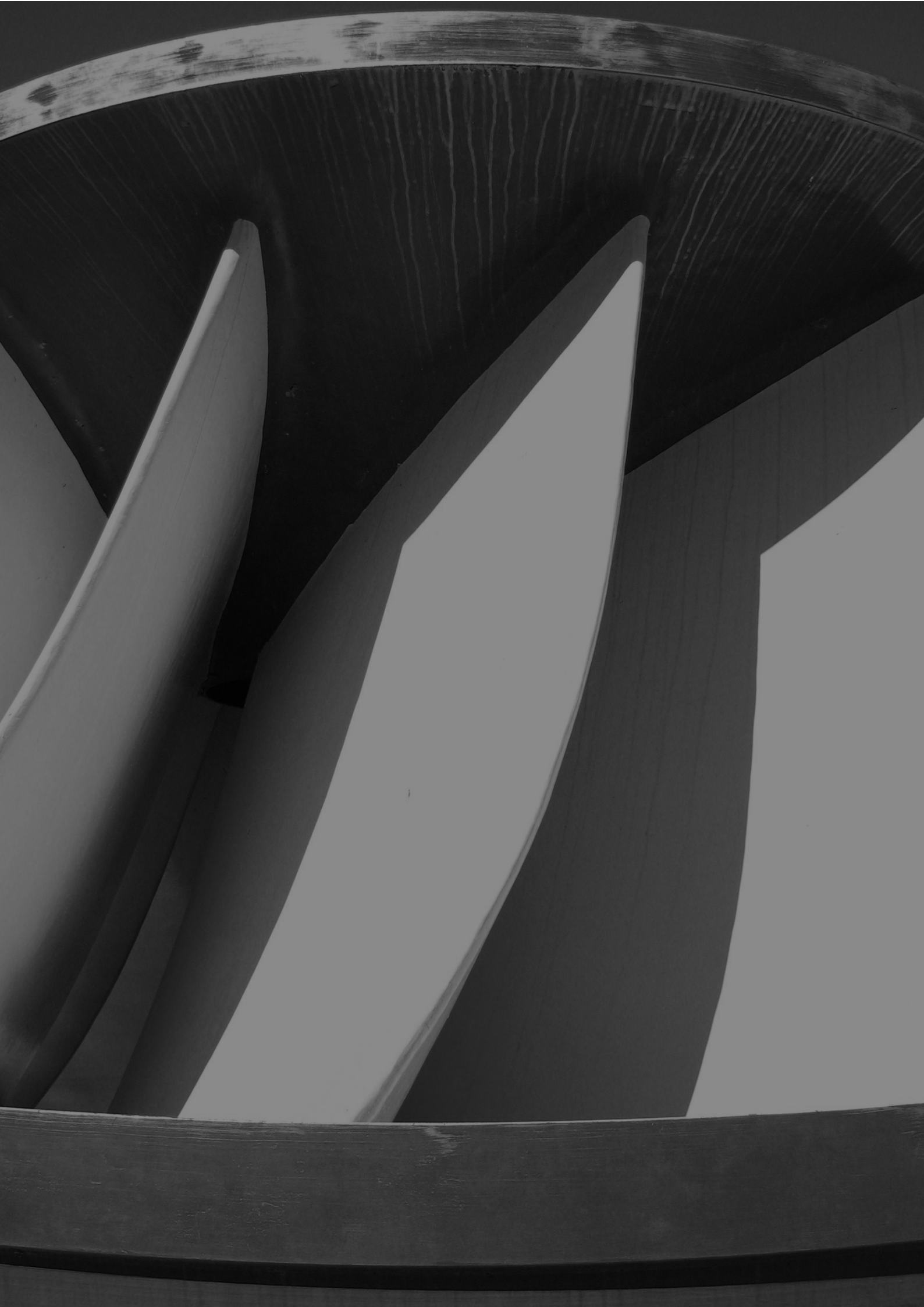
Many of the financial and professional services firms also have large head offices. Because they are often the greenest buildings in their portfolio and owned by the company, facilities managers can choose the source of power. However, there comes a point of diminishing returns when considering smaller offices – which are often leased and in parts of the world without the luxury of off-grid green electricity options. The only real option for these locations is purchasing renewable energy certificates to cover the use of electricity.

More work needs to be done in the real estate sector to offer the option for leasing office space that is supplied with renewable power. Alstria and Land Securities are the first two companies in this sector to make a 100% renewable power commitment and join RE100.

APPAREL

Where possible, many apparel companies are utilizing green power options from the grid to ensure their offices and stores are sourcing electricity from renewable sources. But they face a similar challenge to the finance and professional services companies, because office and retail space is often rented and the source of electricity is decided by the landlord – and so not an area negotiated as part of the lease.

To get around this, some companies have purchased renewable energy certificates that match their electricity use. However, making demand more visible as well as leadership from the real estate sector is needed to accelerate the options available.



GROWING THE MARKET

Good progress is being made by RE100 companies to purchase and generate renewable power, but to increase the scale and pace of the transition to renewables, more needs to be achieved. Progress needed can be broken down into the short-, medium- and long-term.

SHORT-TERM: 2016

INCREASED VISIBILITY OF EXISTING OPTIONS

To enable growth of renewables in the short-term, continued focus on raising awareness of the current options available to companies is critical. There are many business benefits for switching to renewable sources of electricity. Developing more and better information for companies to make it easier for them to make decisions will support this shift.

DEVELOPING PARTNERSHIPS

Many companies simply want their local electricity utility to offer the renewable power they need. However, in some regions, power companies are not responding to the changing market demand. Initiatives like the Corporate Renewable Energy Buyers' Principles[10] led by WWF and WRI are helping to raise awareness of this challenge. They are engaging utilities in the US to address blockages. RE100 companies are encouraged to sign up.

Working with the World Business Council for Sustainable Development (WBCSD)'s Low Carbon Technology Partnerships initiative on renewable power (LCTPi)[11], RE100 companies will be able to feed in their views, experience and ideas to enable innovative solutions to scaling up procurement of renewable power. In particular, there will be the opportunity for RE100 companies to engage in topical workshops that aim to address key barriers to renewable procurement in a number of key markets.

Our new partnership with the Business Renewables Center (BRC)[12], founded by The Rocky Mountain Institute (RMI), aims to increase renewable demand (buyers), find renewable opportunities (sellers), and provide the means to join the two (tools and knowledge).

Members of RE100 can now elect to become a BRC Silver member, which is a no cost membership that allows access to the Center's collective knowledge and case studies on past transactions. Additionally, RE100 and BRC will jointly provide a series of technical capacity building webinars on selected topics such as PPAs and opportunities to aggregate demand. Members of RE100 and BRC will also have opportunities to network at key events being planned for 2016 (e.g. Business and Climate Summit).

REGIONAL GROWTH

Most of the progress that has been made by RE100 companies so far has taken place in Europe and US. But to realize 100% renewable power goals all around the world, solutions must be found or developed across many other regions.

The RE100 campaign has begun outreach and awareness raising in India and China and will continue to work with partners to develop an understanding of opportunities and barriers in these regions. There have been strong signals from companies headquartered in these regions that setting sights on a 100% renewable power goal is a useful strategy, but more needs to

MEDIUM-TERM: 2016-2020

be done to demonstrate how it can be achieved. US and European RE100 companies with operations in these countries are also keen to understand the options.

As better understanding of the areas in the world where there is aggregated demand from RE100 companies develops, additional regions can be prioritized. It is anticipated that a range of financial and policy barriers may exist that can be identified and addressed. Some are straightforward to overcome so that opportunities can be unlocked in the medium-term (for example, if the policy environment and electricity infrastructure exists, but projects just need a financial solution to set them up), and others are more complicated and need long-term plans to resolve (for example, where the necessary policy regimes aren't in place or electricity infrastructure has not yet been developed).

The International Renewable Energy Agency (IRENA)[13] is working with governments around the world to identify how best to accelerate the uptake of renewable energy in each country. As a platform for international co-operation on accelerating renewables the RE100 campaign will seek ways to work with IRENA to ensure the business community is engaged in shaping the energy future. RE100 is also part of IRENA's Coalition for Action[14] to help raise awareness of the multiple benefits of renewables.

LONG-TERM : POST 2020

The intent of RE100 is to make 100% renewable power goals the 'norm' so that by 2020 there is visibility and clarity about the market demand from the corporate sector. This will provide confidence to policymakers, investors and the broader energy sector that it is not just possible to meet 100% of corporate power demands from renewable sources – but essential.

Over the coming years the RE100 campaign will continue to work alongside other organizations, institutions, campaigns and initiatives to support the global effort to make 100% renewable power a reality, and ensure necessary action for the long-term is identified now to begin building the foundations needed for a 100% renewable energy future.

To find out more about RE100, visit theRE100.org and follow #RE100 on Twitter.
If your company is interested in joining RE100 please contact info@theRE100.org.

APPENDIX: RE100 COMPANY COMMITMENTS AND ACHIEVEMENTS

COMPANY	HQ	100% GOAL	INTERIM TARGET	PROGRESS AGAINST 100% GOAL	APPROACH
Adobe	US	2035	-	30%	– Power Purchase Agreements (PPAs) that feed into the grid, rather than unbundled RECs – On-site generation where possible
Alstria	Germany	2016	-	90%	– Purchases renewable electricity via green tariff
Autodesk	US	2020	-	40%	– On-site generation – Purchase of renewable energy credits (RECs) in the US – Provide products that increase accessibility and availability of renewable energy products, for example WindFloat – a floating platform capable of supporting large offshore wind turbines
Aviva	UK	2025	80% by 2020	56%	– On-site solar generation at two locations in UK, with further installations planned – Invested £400 million in renewable infrastructure, with £2.5 billion pledged over next five years – Joint ventures in India and China to increase generation capabilities in these areas where currently no renewable electricity tariffs available – Provide insurance products for low-carbon and renewable energy installations
Biogen	US	2014	-	100%	– 100% powered by renewable electricity since 2014 through purchasing of RECs in the US and Guarantees of Origin in Denmark
BMW Group	Germany	-	66% by 2020	40%	– Four on-site wind turbines powering entire production process at Leipzig site in Germany – Solar PV installations at two sites in India – Purchase of renewable electricity from the grid
BROAD Group**	China	2025	-	-	– Total area of 230,000 square meters of solar PV panels fitted on facilities in China
BT Group	UK	2020	-	94%	– Invested £440 million via PPAs in three wind farm sites in UK – Purchases renewable electricity on green tariffs with contracts in Ireland, Spain, Belgium, Germany, Italy, Japan, Luxembourg, Singapore and the Netherlands
Coca-Cola Enterprises	US	2020	-	10%	– 150 MWh of solar PV installed at largest bottling sites in UK and distribution center in Belgium – Purchases renewable electricity from the grid – Developing additional projects for sites where feasible
Commerzbank	Germany	2013	-	100%	– 100% renewable since 2013 through purchasing Guarantees of Origin – One of the world's largest funders of renewable energy through the Centre of Competence Energy – Provided $5.7 billion in loans for financing renewable energy development
DSM**	Netherlands	-	50% by 2025	-	– Solar energy generation projects in India, US and the Netherlands
Elion Resources Group	China	2030	-	27%	– 110 MW solar PV installation in the Kubuqi desert, with excess electricity being sold via the grid – Planning large-scale 5 GW solar PV project
Elopak	Norway	2016	-	18%	– Purchase Guarantees of Origin certificates and RECs for businesses in Europe and North America – Implement new I-REC standard to source renewable energy outside of Europe and North America
Formula E**	UK	2020 (Season 6)	-	50-60% on races	– Power electric cars with renewable electricity using generators run by a bio-glycerin based fuel – The next season will operate as an 'open championship' allowing teams the opportunity to showcase their own renewable energy innovations
Givaudan	France	-	-	33%	– Purchases renewable electricity from the grid

COMPANY	HQ	100% GOAL	INTERIM TARGET	PROGRESS AGAINST 100% GOAL	APPROACH
Goldman Sachs	US	2020	-	14%	– Direct sourcing of renewable electricity through PPAs for own operations and in regions where not feasible source high-quality credible RECs – Deployed over $60 billion in financing and investment for clean energy – Lead equity investor in ReNew Power - a growing renewable energy company in India with potential for 1GW operating capacity
Google	US	-	Will triple renewable energy purchasing by 2025	Data not in public domain	– Largest corporate purchaser of renewable power in the world - committed to purchase nearly 2 GW of renewable energy to date – Long-term contracts directly with energy suppliers or renewable projects in the same grid regions as data centers – Signed six large-scale PPAs
H&M	Sweden	-	80% by 2015	27% (in 2015)	– Purchases 100% renewable electricity from the grid for operations in UK and Netherlands – Solar PV projects generating nearly 800,000 KWh
International Flavors and Fragrances (IFF)**	US	-	-	-	– 4,000 KW solar installation at the company's facility in New Jersey – Purchase of RECs in the US
IKEA	Netherlands	2020*	-	67%	– Over 700,000 solar panels installed on IKEA buildings globally – Purchase of wind farms in Canada, Ireland and US - own and operate a total of 279 wind turbines globally – Allocated a total of US$1.9 billion in investments in new renewable energy projects
Infosys	India	2018	-	30%	– Total of 3 MW of solar panels installed across campuses in India – Plans to increase solar capacity to 175 MW through combination of on-site and offsite installations
ING**	Netherlands	2020	-	-	– Purchases renewable electricity from the grid – Purchase of RECs in the US and Guarantees of Origins in Europe
J Safra Sarasin	Switzerland	-	70% by 2015	Data not in public domain	– Solar PV installation at head office, generating 19,600 KWh of electricity – Purchase of RECs – Research on better electricity storage to increase use of renewables
J&J	US	2050	20% by 2020	3%	– On-site renewable energy generating capacity to 50.1 MW
Kingspan	Ireland	2020*	50% by 2016	28%	– Rooftop solar PV installations at headquarters in Ireland – Purchase of fully certified renewable electricity, via RECs in US and Guarantees of Origin in Europe
KPN	Netherlands	2013	-	100%	– Purchases Guarantees of Origin for operations in the Netherlands and Belgium – Electricity in the Netherlands is locally generated from wind or biomass
La Poste	France	2020	-	66%	– Installed over 45 solar projects at properties, covering 44,000 square meters – Purchases renewable electricity from the grid – The world's largest fleet of electrical vehicles
Land Securities	UK	2016	-	-	– Purchases energy from the grid via a renewable electricity tariff
Marks & Spencer	UK	-	-	88% (100% in the UK)	– UK's largest single roof mounted solar panel on East Midlands distribution center, lowered carbon footprint by 48,000 tonnes over 20 years – Purchase green electricity tariff for electricity in all stores, offices and warehouses in UK and Republic of Ireland
Mars	US	2040*	-	6%	– 200 MW wind farm in Texas- supplying electricity for 100% of US operations (12% of Mars' global electricity demand) – A 4.4 acre solar park provides 100% of the electricity needs of a chocolate factory in Nevada – On-site solar garden in Tennessee generates more than 170,000 KWh annually
Microsoft	US	2014	-	100%	– Signed two PPAs for wind generation projects - Keechi Wind Project in Texas generating up to 110 MW annually – Solar panels installed at Silicon Valley campus – Purchase of RECs for remainder of electricity demand

COMPANY	HQ	100% GOAL	INTERIM TARGET	PROGRESS AGAINST 100% GOAL	APPROACH
Nestlé	Switzerland	-	-	5%	– Wind turbines installed at site in California generate 30% of the facility's electricity demand – Wind energy meets 85% of Nestlé Mexico's electricity needs via PPAs – Solar plants in the US produce 1 MWh of electricity annually
Nike	US	2025	-	Data not in public domain	– On-site solar and wind generation at largest facilities, including European and China Logistics Campus – Procure renewable electricity generated off-site
Nordea**	Sweden	-	-	-	– Purchase of Guarantees of Origin
Novo Nordisk**	Denmark	2020	-	-	– On-site renewable electricity generation at sites in Denmark, China, Brazil and Japan – Signed PPA for wind farm site in inner Mongolia for production site in China – Purchase renewable electricity from the grid where on-site generation is not feasible
Pearson**	UK	2012	-	100% (in 2012)	– Invested in renewable electricity generation at five sites consisting of 2.6 MW of wind and solar assets installed – Ranked in top 50 largest purchasers of electricity from renewable sources in the US
Royal Philips	Netherlands	2020	-	55%	– Purchase of RECs in US and Guarantees of Origin in Europe equivalent to 50% of total electricity demand – Invested US$2.5 million on 100 renewable light centers in Africa as part of UN's sustainable light for all
Procter & Gamble	US	-	30% by 2020*	-	– 500MW biomass plant at site in Georgia, that is one of the company's largest energy users
Proximus	Belgium	2015	-	98%	– Purchase of certified renewable energy credits for 100% of electricity demand
RELX Group	UK	2020	50% by 2015	34%	– Purchasing renewable electricity on green tariffs for operations in UK, Austria, Germany, France and the Netherlands – RECs are purchased for US operations
Salesforce	US	TBC	-	43%	– PPA in West Virginia for wind farm with 40 MW generation capacity – Purchase of RECs in US
SAP	Germany	2014	-	100%	– Purchase of renewable electricity certificates equivalent to electricity demand of entire operations globally
SGS	Switzerland	2020	-	75%	– Purchase of Guarantees of Origin from Norwegian hydro-electric plants to value equivalent to electricity consumption in European offices – Purchase I-RECs for operations in China, Hong Kong, Israel, Taiwan and Turkey – Purchase of RECs for US operations
Starbucks	US	TBC	-	59.3%	– Purchase of RECs equivalent to entire North American electricity demand
Steelcase	US	2014	-	100%	– Purchase of RECs in US and Guarantees of Origin for European operations
Swiss Post	Switzerland	2008	-	100%	– Solar PV installations generating 5 GWh annually – Purchase of certified renewable electricity from the grid
Swiss Re	Switzerland	2020	-	80%	– Purchase of RECs in the US and Guarantees of Origin in Europe – Solar PV installation in Italy with 100 MWh generating capacity – COyou2 Program provides employees access to subsidies for solar panels and other emission cutting investments
UBS	Switzerland	2020	-	53%	– 100% of electricity demand in Switzerland, Germany and UK is met with renewable electricity, mainly hydro and wind power – Sourced more than 285 GWh of renewable electricity in the US, mainly from wind power
Unilever	Netherlands	2030*	100% grid purchased electricity from renewables by 2020	45%	– PPA signed for manufacturing sites and additional Guarantees of Origin purchased for operations in Europe – Currently purchases RECs for all factory sites in North America , signed a PPA for wind farm in Texas with generating capacity of 525,000 MWh annually – On-site generation from solar PV, wind or hydro

COMPANY	HQ	100% GOAL	INTERIM TARGET	PROGRESS AGAINST 100% GOAL	APPROACH
Vaisala	Finland	2020	-	86%	– Solar PV installations at facilities in Finland generating 74 MWh of renewable electricity – Purchases renewable electricity from the grid
Voya Financial	US	2015	-	100%	– Purchases wind energy credits equivalent to 100% of electricity consumption of entire operations
Walmart	US	-	Procure 7,000 GWh of renewable energy per year by 2020*	26%	– Largest commercial solar energy user in the US – More than 380 renewable energy projects in operation or under development in five countries
YOOX Group	Italy	2020	-	81.3% (in 2014)	– Solar PV panels installed at company's headquarters with generating capacity of 66 KW – Purchases renewable electricity from green energy suppliers covered by REGO certificates

*100% renewable target includes power and heat
**Company not included in the sectoral breakdown analysis due to lack of data.

ACKNOWLEDGEMENTS

We would like to thank RE100 companies for their cooperation in providing data and information about their progress towards their 100% renewable power goals.

FOOTNOTES:

1. Ren21, Renewables 2015 Global Status Report, viewed on 11 January 2016, http://www.ren21.net/wp-content/uploads/2015/07/REN12-GSR2015_Onlinebook_low_nolinks.pdf.
2. Bloomberg New Energy Finance, 'New Energy Outlook 2015 – powering a changing world', viewed on 11 January 2016, http://www.bloomberg.com/company/new-energy-outlook/.
3. World Resources Institute (WRI), 'Electricity and Heat', Chapter 11 of 'Navigating the numbers: greenhouse gas data and international climate policy – part II', viewed on 11 January 2016, http://pdf.wri.org/navigating_numbers_chapter11.pdf.
4. Ren21, online supplement setting out scenario profiles from Renewables Global Futures Report, viewed on 11 January 2016, http://www.ren21.net/wp-content/uploads/2015/07/REN12-GSR2015_Onlinebook_low_nolinks.pdf.
5. Ren21, Renewables 2015 Global Status Report, viewed on 11 January 2016, http://www.ren21.net/wp-content/uploads/2015/07/REN12-GSR2015_Onlinebook_low_nolinks.pdf.
6. Bloomberg New Energy Finance, 'New Energy Outlook 2015 – powering a changing world', viewed on 11 January 2016, http://www.bloomberg.com/company/new-energy-outlook/.
7. RE100, http://there100.org/re100.
8. http://sciencebasedtargets.org/
9. World Health Organisation, 'Climate change and health' fact sheet no.266 updated September 2015, viewed on 11 January 2016, http://www.who.int/mediacentre/factsheets/fs266/en/.
10. Corporate Renewable Energy Buyers' Principles, http://buyersprinciples.org.
11. World Business Council for Sustainable Development (WBCSD) Low Carbon Technology Partnership initiative on renewable power (LCTPi), http://lctpi.wbcsdservers.org/portfolio-item/renewables/.
12. Rocky Mountain Institute Business Renewables Center, http://www.rmi.org/business_renewables_center.
13. International Renewable Energy Agency (IRENA), http://www.irena.org.
14. IRENA Coalition for Action, http://coalition.irena.org/members.aspx.

RE 100

RE100 is a collaborative, global initiative of influential businesses committed to 100% renewable electricity, working to massively increase corporate demand for renewable energy. This will accelerate the transformation of the global energy market and aid the transition towards a low carbon economy. RE100 shares the compelling business case for renewables and showcases business action, while working with others to address barriers and develop transparent reporting mechanisms. RE100 is brought to you by The Climate Group in partnership with CDP, as part of the We Mean Business coalition.

THECLIMATEGROUP.ORG I TWITTER.COM/CLIMATEGROUP

Europe I London I +44 (0)20 7960 2970
China I Beijing I Hong Kong I +86 (0) 10 64403639
India I New Delhi I +91 11 4200 3342
North America I New York City I +1 (646) 233 0550

RE 100