RE100°CLIMATE GROUP

Growing renewable power: companies seizing leadership opportunities

RE100 Annual Progress and Insights Report 2020 December 2020



Foreword

The science is clear: the world's energy system must undergo a rapid transformation.

At the forefront of this revolution are RE100 members, **committed to 100% renewable electricity.** This report covers 261 reporting companies with an electricity consumption of over 278 terawatt-hours per year (TWh/yr)* – **more than Australia**¹.





To tackle climate change we need to halve global emissions by 2030 and reach net zero by 2050. Energy companies have a pivotal role to play ³



RE100 is a global initiative led by the Climate Group in partnership with CDP As the cost of renewables continues to plummet² and the world looks beyond the COVID-19 crisis, investing in clean energy is vital. Corporate renewable power sourcing can get us there – **fast**.

Despite 2020's challenges, unprecedented renewables demand continues. RE100's membership is growing and diversifying, especially in the Asia-Pacific region. The biggest companies are sending us a clear message: there is a vast appetite for clean energy.

Supportive policy needed

This is the Climate Decade and our mission is more urgent than ever. It's time to accelerate the transition to zero carbon electricity grids.

By committing to 100% renewable power, RE100 members are leading the way globally. **Every major company now needs to step up.**

Businesses and policymakers must work together – governments worldwide also need to step up and provide **affordable and reliable market access**, so companies can source 100% renewable electricity.

*The RE100 membership is growing rapidly, with more than 20 new joiners since the end of the reporting period (September 2020) taking the total electricity demand to over 300 TWh/yr. We are confirming their data for publication in 2021. Recent policy shifts in Japan, South Korea and the Taiwanese market recognise RE100 demand and are unlocking clean energy use along supply chains – **boosting the economy when we need it most.**

Transparency is vital

This report shows where RE100 members are active, how much renewable electricity they are sourcing and how. For example, over a quarter are now using power purchase agreements (PPAs) – growing renewable electricity capacity and helping to decarbonise electricity grids.

This year, we have requested more data from members and raised the bar on verification. We are also publicly identifying which markets members find most challenging to source renewable power and meet their goals.

The more data we can provide to stakeholders, the better equipped we are to enable change.

On the road to 100% renewable power, further transparency is vital to reveal progress, inform the market and drive policy shifts. **Together, we can accelerate the clean energy transition.**

Key findings



Growing & diversifying membership

260+ members: despite COVID-19, a record number of companies are committing to 100% renewable electricity*



278+ TWh/yr

Our members' aggregated electricity demand is higher than Australia's*

42% of new members are from the Asia-Pacific region

Impactful sourcing strategies

Our members are shifting markets away from fossil fuels and speeding up the clean energy transition



Power purchase agreements (PPAs) now account for 26% of members' sourced renewable power



50%

26%

Half of respondents said impactful sourcing options improve cost savings and over two-thirds of these members have PPAs

Ambitious targets & steady progress



2028

is our members' average goal for achieving 100% renewable power



3/4 f our members plan to

of our members plan to reach 100% renewable electricity by 2030



41% of total members' electricity usage comes from renewables

53



65 members are using over 90% renewable electricity

Challenging markets

Members identified Argentina, Australia, China, Indonesia, Japan, New Zealand, Russia, Singapore, South Korea and the Taiwanese market as the most challenging markets for achieving 100% renewable electricity



*The data in this report is for 261 reporting companies, but the membership is growing rapidly, with more than 20 companies joining since the end of the reporting period (September 2020). The new joiners take the total electricity demand to over 300 TWh/yr. We are confirming their data for publication in 2021.



About the data



This report presents 2019 data disclosed by 261 members in 2020 through the RE100 reporting spreadsheet or the CDP climate change questionnaire.

The RE100 reporting spreadsheet provides further geographical breakdown detail of companies' electricity consumption and their sourcing strategies, while CDP disclosure reveals companies' broader climate change risks and impacts.

Below is our members' response rate for each question:

- **152** provided a market breakdown of their (renewable) electricity consumption
- **141** provided data about supplier engagement
- **135** provided data on their renewable electricity strategy
- **129** provided data about drivers for switching to renewable electricity

- **138** provided data about the barriers they face
- **66** provided data on geographical barriers
- **131** provided data about potential cost savings
- 112 provided data on RE100 commitment benefits

RE100 membership: a growing movement

260+ companies* are now RE100 members



of new members are located in the Asia-Pacific region

Our membership continues to grow. Despite the major impacts of COVID-19, more than 60 companies joined in the last year.

RE100 members are also diversifying, with companies in the Asia-Pacific region making up 42% of new members. This is a **great opportunity for change** – the region accounted for just over half of the world's global electricity consumption in 2018 and coal still dominates in energy generation.

Our members are headquartered in 24 markets, have operations in over 170 and are actively sourcing renewable electricity in over 120 markets.

Their electricity consumption is mostly concentrated in North America and Europe (70%), although it is rapidly rising in the Asia-Pacific region (20%).





Members report 278 TWh/yr in aggregated electricity demand — higher than Australia's ⁴.

Our truly global membership has a huge

impact. Members represent significant electricity demand and have ambitious commitments in place. Their actions have enormous potential to fast-track the transition to zero carbon grids.

RE100 members belong to many sectors⁵, although services remains the most represented area. However, the number of members from the infrastructure and manufacturing sectors has sharply grown.





*The data in this report is for 261 reporting companies, but the membership is growing rapidly, with more than 20 companies joining since the end of the reporting period (September 2020)

Map of member operations & challenging markets



Market	Barrier highlighted by our members
Singapore	Limited renewables availability; Physical space to build new capacity unavailable
South Korea	Renewables not available for corporate sourcing
Australia	Renewables costs still higher than other markets
Indonesia	Limited options to purchase renewables
Russia	Energy Attribute Certificates (EACs) are currently not available to purchase and other sourcing options are limited

Market	Barrier highlighted by our members
Taiwan	Prohibitive renewables costs
Argentina	Renewables not available for corpor
Japan	High costs of renewables; Limited av
China (mainland)	Regulatory complexity; Renewables
New Zealand	Insufficient sourcing options and no

Top 3 markets for **RE100 members HQ**

- United States
- United Kingdom
- Japan

Top 3 markets for RE100 members' electricity consumption

- United States
- United Kingdom
- China





Markets in which they actively source renewable electricity



Total markets in which they operate



Total # of HQ markets



Aggregated electricity demand



Most challenging markets

Argentina; Australia; China; Indonesia; Japan; New Zealand; Russia; Singapore; South Korea and the Taiwanese market

rate sourcing

- vailability due to certificate shortage
- unavailable for sourcing in some regions
- tracking system currently in place



70%

of respondents said cost savings are a driver for switching to 100% renewable electricity

92% of respondents identified customer satisfaction as a

benefit of switching

8

What is driving RE100 uptake?

Market forces are driving corporate sourcing of renewables – more than policies. This suggests our members go above and beyond legal requirements and

limited policy incentives.

The most-cited drivers continue to be reducing greenhouse gas (GHG) emissions and Corporate Social Responsibility (CSR) (99% of respondents)⁶.

Switching to renewable electricity is particularly impactful for companies whose emissions from purchased energy (scope 2) are the main source, which is around twothirds of our membership.

Almost 70% of respondents said cost savings are a driver for switching to 100% renewable electricity. Companies want a level playing field. Renewable electricity needs to compete fairly with fossil fuels and the cost-competitiveness of renewables needs to be passed onto consumers.

One in two (65) respondents identified cost savings or expect to see them in the near future.

Impactful sourcing strategies go handin-hand with cost savings. 80% of the companies which identified savings over US\$100,000 have PPAs – a mechanism where corporate buyers contract directly with a project developer, usually adding renewable electricity capacity to the grid.

Four in five respondents also identified other benefits, including customer satisfaction (92%) and air quality improvement (77%). A quarter reported that their employees are proud of their RE100 membership and their CSR strategy, while a further 19% said employee pressure is a good driver to become more environmentally-friendly.



Growing renewable power: companies seizing leadership opportunities

Ambitious targets

2028 continues to be the average target year for RE100 members to source 100% renewable electricity.



75% of RE100 members are set to be running on 100% renewables by 2030.



electricity by 2020, while another 45% are on track to meet this target by 2030.

31% are hoping to reach 100% renewable

By 2030, three quarters of RE100 members should be running on 100% renewables.

For many members, reaching 100% renewable electricity is one of several wider sustainability goals. 12 have broader energy targets which include using renewables for heat, steam and cooling. Working on these issues in parallel with energy efficiency measures is crucial to cut down emissions globally.

142 members are also setting science-based targets (SBTs) to reduce GHG emissions⁷. 62 have a verified 1.5°C-aligned target. 16 members also have an internal net zero emissions strategy or are planning to go carbon neutral.

Decarbonising electricity is one of the first steps to carbon neutrality.



Distribution of RE100



Progress: growing renewable power

Evolution of RE100 membership, electricity & renewables consumption



Renewable electricity share versus total electricity consumption

Annual electricity consumption range	# members	Average # country of operations	Average % renewable electricity achieved
< 10k megawatt- hours (MWh)	17	2	57%
11k - 50k MWh	35	10	52 %
51k – 100k MWh	24	22	61%
100k - 200k MWh	37	15	51%
200k – 500k MWh	51	27	55%
500k MWh - 1 TWh	33	28	49 %
1 TWh – 2 TWh	23	29	36%
2 TWh - 5 TWh	17	25	35%
> 5 TWh	14	71	47%

42% renewable electricity sourced from RE100 members



RE100 members are sourcing 113 TWh/ year of renewable electricity (42%), up from 87 TWh/yr in 2018. This percentage has nearly doubled since 2015.

Members are at different stages, ranging from those at the start of their journey to those that have already achieved 100% renewable electricity. **Currently, 77 members are already sourcing over 90% renewable power.**

Companies with the largest electricity demand normally operate in the highest number of different markets. As company size and geographic scope increases, the proportion of electricity bought from renewables generally decreases. Larger companies are more likely to operate in markets where it is not yet possible to source renewables.

However, the largest companies purchase a similar percentage of renewable electricity as their smaller peers. This is probably due to their purchasing power or having a larger consumption proportion in established renewable electricity markets.



Impactful sourcing strategies

Our members are shifting markets away from fossil fuels and accelerating the clean energy transition.

Most members (70%) use a mix of sourcing options and continue to adapt their renewable electricity strategies to increase the proportion of clean energy on the grid.

Unbundled Energy Attribute Certificates (EACs) remain the main sourcing method, representing around half of the total renewable electricity consumption. A company purchases renewable EACs separately, "unbundled" from its electricity. Examples of certificate systems include Guarantees of Origin (GOs) and Renewable Energy Certificates (RECs).

Roughly a third of members buy over 75% of their renewable electricity use through unbundled EACs. Contracts with suppliers represent a third of total renewables consumption.

RE100 members continue to turn their renewable electricity sourcing strategies towards approaches which have the highest

3.3% 2015 PPAs

28% 2019

direct impact on grid decarbonisation.

PPAs saw another record-breaking year, accounting for 26% of renewable power sourced by our members (up from 19% last year).

Self-generation is common, with 58% of members producing renewable electricity for their own consumption. However, this represents only 3% of the total electricity sourced and this percentage has not grown for many years. Most self-generation consists of on-site solar panels, which are too small to cover office or factory consumption.

When asked about their long-term strategy, **40% of respondents[®] plan to sign PPAs and another 40% want to increase self-generation, in particular on-site solar panels**. Around a third want to purchase unbundled EACs to reach their RE100 target.

We recommend members source more directly, through on-site generation or long-term agreements⁹ when possible. The rise of PPAs indicates that members want more effective, impactful procurement methods to reach 100% renewable electricity, which are likely to bring new renewables onto the grid and reduce costs.



a record share of renewable power was sourced by our members through PPAs

	Renewable electricity share			TWh	#		
Sourcing method				2018	2019	(2019)	(2019)
Unbundled EAC purchase	60%	40%	46%	43%	42%	50	131
Contract with suppliers	35%	41%	35%	31%	30%	35.5	149
PPAs	3.3%	13%	16%	19%	26%	31	76
Self-generation	<1%	3%	1%	4 %	2.5%	3	151
Purchase from on-site installations owned by a supplier	<1%	<1%	<1%	2%	<1%	0.8	19

Evolution of sourcing methods used by RE100 members

Barriers & policy solutions

Access to renewable electricity varies globally. A key factor is how well the market is set up to enable companies to buy renewable electricity and to credibly claim those purchases.

Our members shared where they find it most challenging to source renewable electricity and achieve their RE100 goal and why. This information is vital in identifying where support is needed to open markets and meet corporate demand.

Limited availability of renewables and high costs are the main barriers highlighted in challenging markets.

Smaller electricity loads in some markets can also make it harder to sign PPAs and purchase unbundled certificates, as brokers prefer procuring large volumes.

The places most commonly cited as challenging are Argentina, Australia, China, Indonesia, Japan, New Zealand, Russia, Singapore, South Korea, and the Taiwanese market.

Barriers in Argentina, Indonesia, New Zealand, and Singapore are critical to address, since members highlighting challenges represent over 60% of total RE100 electricity demand in these markets. In New Zealand, renewables are available, but it is difficult for companies to make unique claims to them.



Challenging markets & barriers faced

Electricity demand of members citing market barriers (MWh/yr)

members citing barriers in that market

> Total # members in that market

> > no availability

No certificates

12

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Number of members citing the barrier Low High Medium

RE100 global policy message

Our six policy measures¹⁰ support corporate sourcing of renewable electricity globally, according to RE100 member companies. **We are asking all governments to act.**



Create a level playing field for renewable electricity which reflects cost-competitiveness, allowing fair competition with fossil fuels.



Remove regulatory barriers and implement stable frameworks to facilitate uptake of corporate renewable electricity sourcing.



Create an electricity market structure allowing direct trade between corporate buyers of all sizes and renewable electricity suppliers.



Work with utilities or electricity suppliers to provide options for corporate renewable electricity sourcing.



Promote direct investments in on-site and off-site renewable electricity projects.



Support a credible and transparent system for issuing, tracking, and certifying competitively-priced EACs.



Increased transparency & verification



Better data quality in 2020

The Climate Decade is underway and transparent reporting by companies is an important sign of leadership and credibility.

We constantly strive to improve disclosure and this year's process was **the most transparent yet – 153 members provided detailed reporting**, compared to 74 last year.

More detailed reporting is crucial to meaningfully drive the zero carbon electricity transition. Disclosure requires time and resources, so our members' input has been especially appreciated in this exceptionally challenging year.

Data allows us to accurately quantify aggregated demand for renewable electricity in each market and analyse how members are currently able to source it. Data also helps to raise awareness among policymakers, who play a crucial role in unlocking corporate renewable electricity procurement.

The largest electricity consumers are lagging behind on reporting

Despite increased detailed disclosure, the largest electricity consumers are lagging behind on reporting. Detailed data only covers around 40% of RE100 members' total electricity consumption.

Tables in the Annex show RE100 electricity demand and renewable electricity consumption by market. In future, we want the collected data to represent the full RE100 membership, to send an even stronger message to policymakers – **business wants affordable renewable electricity access and action is needed now to remove barriers.**

The new target verification process

In 2020 we implemented a verification process¹¹ to check whether companies reach their 100% target in line with RE100 technical criteria¹². This protects our members' reputations, ensuring claims made under the initiative are credible and consistent.

An enhanced verification level was also applied to members who had already announced 100% renewable power sourcing.



companies have reached 100% renewable electricity by matching demand with renewable electricity supply globally but face barriers in challenging markets

companies achieved their target in line with RE100 Market Boundary Criteria¹³

companies still need to go through the verification process



Looking ahead

The RE100 Leadership Awards¹⁴ showed our members setting a new bar for credible and impactful corporate renewable electricity sourcing. Moving into 2021, we want more high electricity consumers to join this powerful cohort by setting targets and rapidly switching to 100% renewable electricity.

Our international expansion and integration of new Asian-headquartered members sends a strong signal to policymakers that companies in this region want more renewable electricity.

As the world seeks to recover better from COVID-19, reaching 100% renewable power is central to a green recovery.

However - challenges remain.

Our RE100 Global Policy Message provides a framework outlining what policymakers need to do to ensure corporate consumers can source renewable electricity no matter where they operate. An important first step are EACs, a foundation enabling effective renewable electricity markets. Governments must support a credible and transparent system for issuing, tracking and certifying competitively-priced EACs. Our RE100 Technical Criteria provides more information and guidance for policymakers.

As the world seeks to recover better from COVID-19, renewable electricity is a central pillar of the green recovery. Corporate sourcing is a win-win for businesses and governments in accelerating investment.

Companies and governments must work together to accelerate the clean energy transition and enable renewable electricity procurement at scale.

References

- 1. <u>IEA Key World Energy Statistics (KWES)</u> 2020
- 2. <u>Lazard's Levelized Cost of Energy</u> Analysis, 2020
- 3. IPCC special report on the impacts of global warming of 1.5 °C above preindustrial level (SR1.5)
- 4. <u>IEA Key World Energy Statistics (KWES)</u> 2020
- 5. Per CDP Activity Classification System
- 6. Based on data from 129 members
- 106 have had their targets verified by by the Science Based Targets initiative (SBTi) and 38 are committed to setting targets
- 135 members reported on their longterm strategy
- 9. For more recommendations on how to make procurement more impactful, please consult the <u>RE100 Leadership</u> paper
- 10. Building on the <u>2018 IRENA CEM</u> <u>Corporate Sourcing of Renewables</u> report and the REBA Buyers' Principles
- 11. <u>"Making transparent RE100 claims"</u> (RE100), 2020
- 12. RE100 Technical Criteria
- 13. RE100 Market Boundary Criteria
- 14. <u>RE100 Leadership Awards</u>
- 15. 152 companies provided electricity consumption data at a country level
- 16. In European countries, the amount of renewable electricity consumed can exceed total electricity consumption. As explained, members often cover their consumption in certain countries by purchasing electricity in other countries



Acknowledgements

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About RE100

<u>RE100</u> is a global initiative bringing together the world's most influential businesses committed to 100% renewable power. Led by international non-profit the Climate Group in partnership with CDP, the group have a total revenue of over US\$6.6 trillion and operate in a diverse range of sectors. Together, they send a powerful signal to policymakers and investors to accelerate the transition to a clean economy. #RE100

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About the Climate Group

<u>The Climate Group</u> drives climate action. Fast. Our goal is a world of net zero carbon emissions by 2050, with greater prosperity for all. We focus on systems with the highest emissions and where our networks have the greatest opportunity to drive change. We do this by building large and influential networks and holding organisations accountable, turning their commitments into action. We share what we achieve together to show more organisations what they could do. We are an international non-profit organisation, founded in 2004, with offices in London, New Delhi and New York. We are proud to be part of the We Mean Business coalition. Follow us on Twitter @ClimateGroup.



About CDP

<u>CDP</u> is a global non-profit that drives companies and governments to reduce their greenhouse gas emissions, safeguard water resources and protect forests. Voted number one climate research provider by investors and working with institutional investors with assets of over US\$106 trillion, we leverage investor and buyer power to motivate companies to disclose and manage their environmental impacts. Over 9,600 companies with over 50% of global market capitalization disclosed environmental data through CDP in 2020. This is in addition to the hundreds of cities, states and regions who disclosed, making CDP's platform one of the richest sources of information globally on how companies and governments are driving environmental change. CDP is a founding member of the We Mean Business Coalition. Follow us @CDP to find out more.



Annex

1. RE100

RE100	% of renewable electricity	# of RE100 members	% of membership
members'	No reporting	6	2%
ahara of	0 - 9%	63	24%
share of	10 - 19 %	16	6%
renewable	20 - 29%	23	9%
	30 - 39%	10	4%
electricity	40 - 49%	20	8%
compared	50 - 59%	10	4%
	60 - 69%	15	6%
to total	70 - 79%	11	4%
alactricity	80 - 89%	10	4%
electricity	90 - 99 %	24	9%
consumption	100%	53	20%

Overall, 47% of the members are sourcing 50% or more of their electricity from renewables, and 35% source 75% renewables or more.

A quarter of companies are just beginning their journey and source 10% or less of their electricity from renewables. Around 25% of these are headquartered in Japan, showing that while ambition is high, market barriers are still preventing meaningful renewable energy consumption in Japan.

2. Electricity and renewable electricity consumption of RE100 members by sector



3. RE100 Total renewable Total electricity % of members electricity % renewable # members with Regions consumption who purchased regional consumption (MWh) electricity consumption (MWh) renewable electricity electricity North 39,216,956 22,970,743 59% 77% 100 demand America 29,899,003 88% Europe 24,233,616 81% 111 breakdown¹⁵ 21,563,024 3,052,817 16% 115 66% Asia South 4,626,099 2,826,633 61% 59 51% America Oceania 1,691,074 179,784 11% 75 28% Africa 673,712 50,223 49 33%

7%

4. Detailed breakdown of RE100 members: procurement options by country/ region

Sourcing methods of RE100 members in North America	Total renewable electricity used in reporting year (MWh)	% of electricity sourced from option
. Unbundled Energy Attribute Certificate (EAC) purchase	11,356,083	51%
 Direct procurement from off-site grid-connected generators (PPA) 	5,899,340	27%
 Contract with suppliers (green electricity tariffs/products) 	4,375,301	20%
4. Self-generation	462,559	2%
5. Other options (explain in Comment box)	44,229	0.2%
δ. Purchase from on-site installations owned by a supplier	8,491	0.04%
Total	22,146,003	



North America: Total renewable electricity used in reporting year (TWh)

- 1. Unbundled Energy Attribute Certificate (EAC) purchase
 - 2. Direct procurement from off-site grid-connected generators (PPA)
- 3. Contract with suppliers (green electricity tariffs/products)
- 4. Self-generation
- 5. Other options (explain in Comment box)
- 6. Purchase from on-site installations owned by a supplier

Sourcing methods of RE100 members in Europe	Total renewable electricity used in reporting year (MWh)	% of electricity sourced from option
1. Contract with suppliers (green electricity tariffs/products)	13,588,002	56%
2. Unbundled Energy Attribute Certificate (EAC) purchase	8,613,202	36%
3. Direct procurement from off-site grid-connected generators (PPA)	1,214,224	5%
4. Self-generation	630,445	3%
5. Other options (explain in Comment box)	175,867	1%
6. Purchase from on-site installations owned by a supplier	14,645	0.01%
Total	24,236,385	



Europe: Total renewable electricity used in reporting year (TWh)

- 1. Contract with suppliers (green electricity tariffs/products)
- 2. Unbundled Energy Attribute Certificate (EAC) purchase
 3. Direct procurement from off-site
 - grid-connected generators (PPA)
- 4. Self-generation
- 5. Other options (explain in Comment box)
- 6. Purchase from on-site installations owned by a supplier

Sourcing methods of RE100 members in China	Total renewable electricity used in reporting year (MWh)	% of electricity sourced from option
1. Unbundled Energy Attribute Certificate (EAC) purchase	964,141	59%
 Direct procurement from off-site grid-connected generators (PPA) 	533,097	33%
3. Self-generation	107,264	7%
 Contract with suppliers (green electricity tariffs/products) 	10,144	1%
 Purchase from on-site installations owned by a supplier 	7,521	0.46%
6. Other options (explain in Comment box)	N/A	N/A
Total	1,622,167	



China: Total renewable electricity used in reporting year (TWh)

- 1. Unbundled Energy Attribute Certificate (EAC) purchase
- 2. Direct procurement from off-site grid-connected generators (PPA)
- 3. Self-generation
- 4. Contract with suppliers (green electricity tariffs/products) 5. Purchase from on-site installations owned by a supplier
- 6. Other options (explain in Comment box)

Sourcing methods of RE100 members in India	Total renewable electricity used in reporting year (MWh)	% of electricity sourced from option
1. Unbundled Energy Attribute Certificate (EAC) purchase	470,881	0.47 %
 Direct procurement from off-site grid-connected generators (PPA) 	202,623	0.20 %
3. Self-generation	96,465	0.10 %
4. Contract with suppliers (green electricity tariffs/products)	18,407	0.02 %
5. Purchase from on-site installations owned by a supplier	14,673	0.01 %
6. Other options (explain in Comment box)	2,206	0.00 %
Total	805.255	



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5. Focus on Europe: origin and consumption of renewable energy

Over 95% of RE100 members' renewable electricity consumption in Europe is located in 15 countries.

In countries such as the United Kingdom, Spain and Sweden, most of the renewable electricity purchased and consumed by members with operations in those countries originates from the country. However, for operations in countries such as Hungary, the Netherlands, Finland and France renewable electricity is mainly purchased from other countries in Europe.

The table below shows a list of 15 countries with the volume of renewable electricity purchased and consumed by members in that country. Column 4 shows the percentage of renewable electricity that members have purchased and consumed in the country which is also generated in that country, in other words, how much corporate demand is being met through domestic production. As Europe is a single large market for renewable electricity, companies can buy from within any country in that market. In the Netherlands, for example, the majority of the renewable electricity consumed by members is generated in other European countries, particularly Italy (56%).

Column 5 shows the percentage of renewable electricity generated in the country that is also purchased and consumed in the country. This indicator is important for understanding how renewable electricity generated in a country is used domestically. For example, Norway is one of the main countries of origin of the renewable electricity purchased by RE100 members in Europe, but only 6% of the purchases are used for operations in Norway. Norwegian renewable electricity is used in Hungary, Germany, Netherlands and 19 other European countries.

Country	Renewable electricity purchased & consumed (MWh)	% of total renewable electricity purchased in Europe	% of renewable electricity purchased and consumed in the country which is generated in the country	% of renewable electricity generated in the country which is purchased and consumed in the country
United Kingdom	9,672,284	40%	96%	96%
Spain	2,667,166	11%	93%	98%
Germany	2,127,383	9%	58%	100%
The Netherlands	1,903,987	8%	21%	99%
France	1,352,633	6%	37%	97%
Ireland	1,254,265	5%	58%	100%
Switzerland	1,210,519	5%	41%	99%
Belgium	819,246	3%	60%	55%
Sweden	647,049	3%	92%	81%
Poland	579,592	2%	61%	62%
Hungary	511,474v	2%	8%	100%
Italy	466,417	2%	69%	25%
Denmark	316,486	1%	62%	73%
Finland	143,875	1%	27%	45%
Norway	129,655	1%	46%	6%
Total	23,802,031	98%		
Other countries	521,635			
Grand total	24,323,666			



6. RE100 members' electricity and renewable electricity consumption by market¹⁶

Market	Electricity consumption (MWh) 	Total renewable electricity consumed (MWh)	% share of renewable electricity among RE100 members in the market	# of companies reporting electricity data
United States of America	35,067,274	21,586,942	62%	100
United Kingdom	10,664,746	9,733,879	91%	92
China	8,696,368	1,622,167	19%	83
Germany	3,278,445	2,136,141	65%	81
Brazil	3,025,546	2,529,705	84%	54
Japan	2,677,993	374,315	14%	78
Spain	2,567,772	2,667,934	104%	69
France	2,165,214	1,362,267	63%	74
Mexico	2,091,265	598,267	29%	56
India	2,057,658	805,255	39%	74
Thailand	1,491,104	37,294	3%	52
Ireland	1,457,679	1,290,617	89%	49
Australia	1,405,500	179,570	13%	71
The Netherlands	1,394,255	1,191,460	85%	62
Malaysia	1,244,541	13,488	1%	50
Belgium	1,238,808	1,061,871	86%	51
Canada	1,219,921	562,624	46%	57
Switzerland	1,199,963	1,216,497	101%	57
Russia	1,108,109	13,293	1%	44
Poland	997,767	644,943	65%	54
Singapore	827,584	27,657	3%	64
Argentina	722,617	15,939	2%	42
Sweden	711,387	737,998	104%	54
Italy	708,119	482,095	68%	63
Czech Republic	675,797	90,616	13%	38
Indonesia	576,036	43,441	8%	48
Slovakia	495,372	71,790	14%	25
Hungary	485,939	511,504	105%	29
Vietnam	463,368	25,539	6%	38
Denmark	440,596	318,906	72%	42
South Korea	433,981	60,302	14%	51
Colombia	408,986	183,455	45%	34
Chile	380,872	177,734	47%	34
Hong Kong	372,073	23,252	6%	45
Turkey	356,899	61,631	17%	45
Philippines	337,964	204,087	60%	38
Peru	317,717	93,684	29%	27
Romania	312,790	20,171	6%	28
South Africa	310,528	48,340	16%	45
Portugal	294,882	65,280	22%	33
Taiwanese market	257,021	3,983	2%	47
New Zealand	230,806	180	0%	39
Israel	187,617	20,930	11%	24
Finland	164,320	219,549	134%	36
Puerto Rico	162,637	2,937	2%	10

Market	Electricity consumption (MWh)	Total renewable electricity consumed (MWh)	% share of renewable electricity among RE100 members in the market	# of companies reporting electricity data
Venezuela	149,917	108	0%	12
Austria	136,666	120,083	88%	42
Norway	134,847	129,655	96%	35
Ecuador	127,190	2,924	2%	10
Saudi Arabia	109,001	289	0%	25
Egypt	100,454	55	0%	22
Ukraine	100,198	270	0%	19
United Arab Emirates	98,812	21,720	22%	44
Morocco	79,492	1,257	2%	18
Serbia	53,973	35,147	65%	18
Sri Lanka	46,071	0	0%	12
Laos	44,787	0	0%	3
Pakistan	44,650	485	1%	17
Uruguay	43,562	3,033	7%	13
Greece	43,201	18,659	43%	27
Bulgaria	41,726	20,618	49%	21
Fiji	39,947	0	0%	5
Ghana	38,820	89	0%	10
Costa Rica	38,454	20,286	53%	11
Algeria	38,440	0	0%	7
Lithuania	35,035	34,517	99%	12
Iran	29,526	0	0%	4
Côte d'Ivoire	29,358	0	0%	5
Panama	20,534	9,082	44%	17
Luxembourg	20,214	14,362	71%	32
Nigeria	16,782	205	1%	16
Kazakhstan	16,388	0	0%	12
Belarus	14,400	8	0%	6
Kenya	14,275	103	1%	17
Estonia	14,250	14,080	99%	10
Dominican Republic	13,427	564	4%	6
Croatia	12,706	10,264	81%	15
Qatar	11,147	12	0%	16
Slovenia	11,121	298	3%	9
Trinidad and Tobago	9,763	0	0%	3
Guatemala	8,715	6,419	74%	7
Iceland	8,030	8,028	100%	3
Bahrain	7,974	224	3%	12
Papua New Guinea	7,367	0	0%	5
Lebanon	6.173	90	1%	10
Malta	5,752	244	4%	3

Market	Electricity consumption (MWh)	Total renewable electricity consumed (MWh)	% share of renewable electricity among RE100 members in the market	# of companies reporting electricity data
Cameroon	5,512	0	0%	5
Bermuda	4,769	0	0%	6
Jordan	4,479	1,009	23%	5
Paraguay	4,428	3,613	82%	4
Latvia	4,341	2,659	61%	11
Azerbaijan	4,262	0	0%	5
Senegal	3,987	0	0%	6
Tunisia	3,940	4	0%	10
Bangladesh	3,917	34	1%	8
Bolivia	3,717	0	0%	3
Bahamas	3,343	54	2%	4
Myanmar	2,671	0	0%	9
Angola	2,363	0	0%	5
Monaco	2,288	628	27%	5
Jersey	1,909	0	0%	4
El Salvador	1,739	0	0%	3
Macau	1,602	0	0%	3
Cambodia	1,522	0	0%	4
Gibraltar	1,476	0	0%	3
Tanzania	1,263	0	0%	3
Kuwait	1,236	608	49%	8
Cyprus	1,137	295	26%	7
Zambia	1,046	0	0%	5
Oman	1,044	0	0%	4
Mauritius	913	2	0%	5
Congo	890	0	0%	3
Honduras	860	0	0%	3
Mozambique	677	0	0%	3
Brunei	43	0	0%	3
Bosnia & Herzegovina	39	34	87%	3

The following markets have not been included in the table, as only one or two members reported consumption there:

Albania, Armenia, Aruba, Barbados, Benin, Botswana, Brunei, Burkina Faso, Cayman Islands, Central African Republic, Cook Islands, Cuba, Dubai, Ethiopia, French Polynesia, Gabon, Georgia, Guam, Guernsey, Guinea, Haiti, Iraq, Isle of Man, Jamaica, Kiribati, Kyrgyzstan, Lesotho, Libya, Liechtenstein, Madagascar, Maldives, Mali, Moldova, Mongolia, Montenegro, Namibia, Nepal, New Caledonia, Nicaragua, North Macedonia, Palau, Réunion, Saint Martin, Samoa, Solomon Islands, Timor-Leste, Togo, Tonga, Turkmenistan.

Appendix

RE100 commitments and achievements

Company		loining yogr	100% renewable electricity	Interim target year		Progress a	gainst 100%	reneawble electr	ricity goal		
Company	ГV	Joining year	goal (target year)	interint larger year	2019	2018	2017	2016	2015	2014	
3M Company	US	2019	2025		33%	27%					
AB SKF	Sweden	2020	2030		40%						
Accenture	Ireland	2019	2023		25%	23%					
Adobe	US	2015	2035	Various regional targets	33%	9%	1%	6%	0%	7%	
Advantest	Japan	2020	2050	33% by 2030	28%						
Aeon Co., Ltd.	Japan	2018	2030		1%	1%	0%				
Ajinomoto	Japan	2020	2050		1%						
AkzoNobel	Netherlands	2017	2050	45% by 2020 100% by 2030 for all energy consumed	37%	40%	58%	40%			
Allianz SE	Germany	2018	2023		49%	45%	40%				
Alstria	Germany	2015	2020		100%	100%	95%	61%	92%	90%	
Amalgamated Bank	US	2016	2017		100%	100%	100%	No reporting	0%		
American Eagle	US	2020	2030		21%						
American Express	US	2020	2018		100% *						
Anheuser-Busch InBev	Belgium	2017	2025		25%	21%	5%	5%			
Anthem, Inc	US	2019	2025		0%	0%					
ANZ	Australia	2019	2025	13% by 2020 for Australian operations	0%	0%					
Apple	US	2016	2020		100% *	99%	97%	95%	93%		
Asashi Kasei Homes	Japan	2019	2038	50% by 2030	0%	0%					
Asics Corporation	Japan	2020	2050		19%						
ASKUL	Japan	2017	2030	80% by 2025	25%	23%	1%	0%			
Asset Mangement One Co., Ltd.	Japan	2019	2050		3%	4%					
AstraZeneca PLC	UK	2016	2025	100% in EU & US by 2020	61%	61%	56%	58%	14%		
Atlassian Corporation PLC	US	2019	2025		100%	15%					
Aurora Organic Dairy	US	2019	2020		100%	0%					
Autodesk Inc.	US	2015	2020		100%	100%	99%	100%	81%	40%	Autodesk sourd but 99% is comp Autodesk was
Aviva plc	UK	2015	2025	80% by 2020	66%	61%	61%	61%	62%	56%	
AXA Group	France	2017	2025		61%	49%	50%	53%			
Bank Australia	Australia	2019	2020		100%	41%					
Bank of America	US	2016	2020		100%	91%	83%	64%	0.2%		Bank of Amer from renewable criteria. In mo
Bankia	Spain	2016	2032		100%	94%	100%	100%	100%		
Barclays PLC	UK	2019	2030		64%	64%					
BayWa	Germany	2019	2020		72%	77%					

*Company did not report in sufficient detail for RE100 to verify whether the target was achieved in line with the RE100 criteria in all markets

Barriers faced

ces the equivalent of 100 % of its electricity consumption from RE, pliant with the RE100 market boundary criteria. In markets where s unable to source renewables locally they purchased from other markets.

rica sources the equivalent of 100% of its electricity consumption e electricity, but 99% is compliant with the RE100 market boundary arkets where Bank of America was unable to source locally they purchased from other markets.

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Company			100% renewable electricity			Progress	against 100%	reneawble electr	icity goal		
Company	HQ	Joining year	goal (target year)	Interim target year	2019	2018	2017	2016	2015	2014	
BBVA	Spain	2018	2030		39%	35%	27%				
BESTSELLER	Spain	2018	2021	48% by 2020 75% by 2025	0%	0%					
Biogen	US	2015	2014		100%	100%	100%	100%	100%	100%	Biogen sou from i Bi South
Bloomberg	US	2016	2025	35% from direct	49%	17%	39%	2%	1%		
BMW AG	Germany	2015	2050	2/3 by 2020	72%	75%	62%	67%	42%	40%	
British Land	UK	2016	2020		97%	96%	97%	93%	93%	98%	
Broad Group	China	2015	2045	50% by 2030	49%	40%	44%	40%	30%	No reporting	
BT Group	UK	2014	2020		92%	87%	80%	82%	95%	94%	
Burberry Group	UK	2017	2022		90%	68%	55%	39%			
Caixa Bank	Spain	2016	2040		99%	99%	99%	99%	98%		
Califia Farms	US	2017	2020		No reporting	g No reporting	30%	30%			
Canary Wharf Group	UK	2017	2017		100%	100%	100%	100%			
Capital One Financial	UK	2018	2025		100% *	100%	100%				
Carlsberg Breweries A/S	Denmark	2017	2022		56%	47%	46%	45%			
CHANEL	UK	2020	2025	97% by 2021	50%						
Citigroup Inc.	US	2017	2020		46%	25%	18%	No reporting			
Clif Bar & Company	US	2017	2030		100%	100%	100%	100%			
Coca-Cola European Partners	UK	2015	2020		100%	99%	87.5%	75%	55.5%	24%	
Colruyt Group	Belgium	2016	2010		100%	100%	100%	100%	100%		
Commerzbank	Germany	2014	2025	100% renewable electricity in Germany since 2013	91%	93%	97%	96%	95%	95%	
Commonwealth Bank of Australia	Australia	2018	2030		70%	30%	0%				
Continental	Germany	2020	2040	95% by 2020	5%						
Coop Sapporo	Japan	2018	2040	60% by 2030, 90% by 2040	0%	41%	0%				
Corbion	Netherlands	2017	2030	50% by 2020	58%	42%	30%	20%			
Coty Inc.	US	2020	2030		14%						
Credit Agricole	France	2016	No target date		70%	60%	40%	85%	40%		
Credit Suisse	Switzerland	2020	2025		94%						Credit Suisse sou but 88% is compl unable to source
Crown Holdings, Inc.	US	2019	2050		9%	6%					
Dai-ichi Life	Japan	2019	2050		3%						
Daito Trust Construction Co., Ltd.	Japan	2019	2040		0%	0%					
Daiwa House	Japan	2018	2040	30% by 2030	0%	0%	0%				
Dalmia Cement	India	2016	2030		10%	15%	No reportin	g No reporting	7%		
Danfoss	Denmark	2020	2030		1%	1%					
Danone	France	2018	2030	50% by 2020	42%	34%	18%	7%			
Danske Bank	Denmark	2016	2015		100%	100%	100%	100%	100%		

ources the equivalent of 100 % of its electricity consumption renewable electricity, but 99.9% is compliant with the RE100 market boundary criteria. Biogen was unable to source renewables locally in h Korea and New Zealand due to regulatory barriers.

urces the equivalent of 94% of its electricity consumption from RE, pliant with the RE100 market boundary criteria. Credit Suisse was ce renewables locally in Singapore and Russia due to regulatory barriers and lack of availability of renewables.

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Company		la::::::::::::::::::::::::::::::::::::	100% renewable electricity			Progress ag	jainst 100%	reneawble electr	icity goal		
Company	ГY	Joining year	goal (target year)	interim larget year	2019	2018	2017	2016	2015	2014	
DBS Bank	Singapore	2017	2030		21%	No data avaiable	0%	No reporting			
Decathlon	France	2018	2026		59%	56%	57%				
DEKRA e.V.	Germany	2020	2025		0%						
Dell Technologies	US	2019	2030		45%						
Dentsu Aegis Network	UK	2016	2020	49% by 2018	89%	54%	23%	13%	11%		
Derwent London Plc	UK	2019	2020		100%	100%					
Deutsche Telekom	Germany	2019	2021		64%						
Dexus	Australia	2019	2030		20%						
Diageo	UK	2016	2030	50% by 2025	45%	49%	54%	24%	23%		
DNB ASA	Norway	2016	2020		100% *	100%	100%	100%	100%		
eBay Inc.	US	2017	2025		64%	50%	45%	54%			
Ecolab	US	2020	2030		7%						
Elion Resources Group	China	2015	2030		No reporting	g No reporting 1	No reportin	g No reporting	7%	27%	
Elopak	Norway	2015	2016		100%	100%	100%	100%	86%	18%	Elopak has made renewable electr locally in 3 marke or lack of availabi the global supply) the European Sin Elopak looks f
Envipro Holdings	Japan	2018	2050		27%	3%	0%				
Envision Energy (Jiangsu) Co. Ltd.	China	2019	2025		3%	2%					
Equinix	US	2016	2029		92%	92%	77%	56%	34%		
Etsy	US	2018	2020		64%	58%	30%				
European Metal Recycling	UK	2020	2030		0%						
Facebook	US	2016	2020		87%	75%	43%	43%	35%		Facebook sou renewable ele criteria. Facebo sam
Fifth Third Bank	US	2018	2022		97%	32%	38%				
Firmenich	Switzerland	2019	2020		100%	86%					Firmenich sou renewable ele criteria. Firme Singapore du
First Solar	US	2020	2028	100% in the US by 2026	1%	1%					
Formula E	UK	2014	2020		No reporting	g No reporting	66%	No data available	50%	50%	
FUJIFILM	Japan	2019	2050		5%	5%					
Fujikura	Japan	2019	2050	45% by 2030	1%	1%					
Fujitsu	Japan	2018	2050	40% by 2030	8%	4%	3%				
Fuyo General Lease	Japan	2018	2050	50% by 2030	0%	0%	0%				
Gatwick Airport	UK	2016	2020		100%	100%	100%	100%	100%		
General Mills	US	2020	2030		24%						
General Motors	US	2016	2050		22%	9%	5%	3%	1%		
Givaudan	Switzerland	2015	2025		75%	69%	58%	48%	40%	33%	Givauda

Barriers faced

excellent progress towards the 2020 RE100 target, achieving 100% tricity for its operations. Elopak was unable to source renewables ets in Eastern Europe and Middle East due to regulatory barriers pility of renewables (IRECs) in these markets (accounting for 13% of /). To cover these markets, renewable electricity was purchased in ngle Market (ex-domain) in line with the grandfathering principle. forward to working with RE100 members to improve supply in these markets.

urces the equivalent of 87% of its electricity consumption from ectricity, but 85% is compliant with the RE100 market boundary ook is focused on adding new renewable energy projects to the me electrical grids as the data centers they support.

urces the equivalent of 100% of its electricity consumption from ectricity, but 95% is compliant with the RE100 market boundary enich was unable to source renewables locally Argentina and ue to regulatory barriers or lack of availability of renewables.

an sources 75% of its electricity from renewables sources. 69% is compliant with the RE100 criteria.

Company	ЦО		100% renewable electricity			Progress a	gainst 100% re	eneawble elec	tricity goal		
Company	ΠQ	Joining year	goal (target year)	interim target year	2019	2018	2017	2016	2015	2014	
Goldman Sachs	US	2015	2020		98%	96%	95%	90%	86%	14%	
Google	US	2015	2017		100% *	100%	100%	61%	48%	37%	
Grape King	Taiwan	2019	2035		0%						
Grupo Bimbo	Mexico	2018	2025	80% by 2020	41%	18%	27 %				
Grupo Cajamar	Spain	2020	2020		100%						
Gürmen Group	Turkey	2018	2018		100%	100%	100%				
H&M	Sweden	2014	2030		96%	96%	96%	96%	78%	27%	
Hair O'right International Corp.	Taiwan	2018	2025	50% by 2022	9%	16%					
Hazama Ando Corporation	Japan	2019	2050		0%						
Heathrow Airport	UK	2017	2017		100%	100%	1%	0.5%			
Helvetia	Switzerland	2016	2020		100%	100%	100%	100%	100%		
Hewlett Packard Enterprise	US	2016	2035	50% by 2025	41%	37%	25%	20%	12%		
HNI Corporation	US	2020	2030		1%						
HP	US	2016	2035	60% by 2025	43%	47%	50%	14%	16%		
HSBC	UK	2017	2030	90% by 2025	36%	32%	29%	8%			
Hudson Pacific Properties	US	2020	2020		100%						
Hulic	Japan	2019	2025		8%						
IHS Markit	UK	2017	2020		0%	0%	0%	8%			
Ingka Group	Netherlands	2014	2020		95%	81%	73%	71%	53%	42%	
Infosys	India	2015	2035	50% by 2018	44%	46%	44%	45%	26%	30%	
ING	Netherlands	2015	2020		98%	98%	95%	91%	86%	86%	
Intel Corporation	US	2020	2030		70%						
Interactive	Australia	2020	2025		0%						
Interface	US	2016	2020		100%	100%	100%	100%	94%		
International Flavors & Fragrances Inc.	US	2015	2030	75% by 2025	36%	45%	34%	26%	22%		
Iron Mountain	US	2018	2050	80% by 2025	79%	69%	30%				
JCDecaux	France	2019	2022		88%	69%					
JD Sports Fashion	UK	2019	2025		42%	76%					
Jinko Solar	China	2019	2025	70% by 2023	18%						
Johnson & Johnson	US	2015	2025	35% by 2020	30%	31%	25%	2%	2%	3%	
JP Morgan Chase & Co	US	2017	2020		22%	22%	11%	11%			
Jupiter Asset Management	UK	2017	2018		100%	100%	100%	94%			
Kellogg Company	US	2017	2050	40% by 2030	26%	28%	19%	20%			
Kering	France	2020	2022		84%						
Keuring Dr Pepper	US	2019	2025		47%	28%					
Kingspan	Ireland	2014	2020		94%	93%	85%	89%	43%	28%	
Konica Minolta	Japan	2019	2050		4%	1%					
Koninklijke DSM	Netherlands	2015	2030		43%	33%	21%	8%			
Koninklijke KPN N.V.	Netherlands	2014	2013		100%	100%	100%	100%	100%	100%	



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Company		loining yogr	100% renewable electricity	Interim target year		Progress o	against 100% r	eneawble elect	ricity goal		
company		Johning year	goal (target year)	internit larger year	2019	2018	2017	2016	2015	2014	
Landsec	UK	2015	2020	3 MW of on-site renewable electricity by 2030	97%	96%	93%	88%	98%		
La Poste	France	2015	2020		86%	86%	81%	76%	0%		
Lego Group	Denmark	2017	2017		8%	43%	No data available	87%			
LIXIL	Japan	2019	2050		7%	0%	available				
Lloyds Banking Group	UK	2019	2020		100%	99%					
L'Occitane	Switzerland	2017	2030	80% by 2020	40%	31%	31%	28%			
Logitech	Switzerland	2019	2030		88%						
LONGi	China	2020	2028	70% by 2027	15%						
Lululemon	Canada	2019	2021		0%	0%					
Lyft	US	2018	2018		100%	44%					
M&G	UK	2018	2020		100%	26%	30%				M&G plc sour renewable elec criteria. M&G plc due to r
Mace Group	UK	2017	2022	75% by 2020	66%	66%	64%	56%			
Macquarie	Australia	2019	2025		18%						
Mahindra Holidays & Resorts	India	2018	2050	60% by 2030	7%	7%	7%				
Mars, Inc.	US	2014	2040		54%	58%	36%	36%	37%	6%	
Marui Group	Japan	2018	2030	70% by 2025	23%	1%	0%				
Mastercard	US	2020	2020		100%						Mastercard sourc line with the RE10 and South Ko
McCain Foods	US	2020	2030		3%						
McKinsey & Company	US	2018	2025		95%	87%	No data available				
Microsoft	US	2015	2017		100%	100%	96%	100%	100%	100%	Microsoft sour renewable ele criteria. Microsof LATAM and Africa In the absence company has sha attribute certi development in
Mirvac	Australia	2019	2030		45%						
Mitie	UK	2020	2020		100%						
Mitsubishi Estate	Japan	2020	2050	25% by 2030	1%						
Mitsui Fudosan	Japan	2020	2050		17%						
Morgan Stanley	US	2017	2022		18%	17%	17%	5%			
NAB	Australia	2019	2025		3%						
NatWest Group	UK	2018	2025	90% by 2020	79%	79%	74%				
Nestlé	Switzerland	2014	2025		41%	34%	26%	13%	8%	5%	
New Balance Athletics, Inc.	US	2019	2025	75% by 2020	47 %	51%	20%				
Next PLC	UK	2019	2030		94%	94%					
Nihon Unisys	Japan	2020	2050		0%						
Nike	US	2015	2025		27%	22%	22%	20%	14%		
Nomura Research Institute	Japan	2019	2050	36% by 2030 at data centers	1%	1%					

Barriers faced

rces the equivalent of 100% of its electricity consumption from ctricity, but 99.7% is compliant with the RE100 market boundary was unable to source renewables locally in Japan or South Korea regulatory barriers or lack of availability of renewables.

ced the equivalent of 100% of renewable electricity, and 99.8% is in 00 market boundary criteria. Mastercard faced barriers in Russia orea, where the availability of renewable electricity is limited.

urces the equivalent of 100% of its electricity consumption from ectricity, but 95% is compliant with the RE100 market boundary oft was unable to source renewables locally in 20 markets in Asia, a due to regulatory barriers or lack of availability of renewables. e of available renewable energy options in these markets, the nown leadership by 'topping up' remaining demand using energy tificates from adjacent countries to drive renewable electricity in the region while we work together to improve supply in more difficult market.



Company			100% renewable electricity			Progress ag	gainst 100%	reneawble electi	ricity goal		
Company	нQ	Joining year	goal (target year)	Inferim farget year	2019	2018	2017	2016	2015	2014	
Nordea	Sweden	2015	2018		100%	100%	100%	97%	100%		
Nordic Real Estate Partners (NREP)	Denmark	2019	2020		8%	0%					
Novo Nordisk A/S	Denmark	2015	2020		76%	77%	79%	78%	78%		
Novozymes A/S	Denmark	2020	2030		49%	37%					
Ono Pharmaceutical Co., Ltd.	Japan	2020	2050		11%						
Organic Valley	US	2017	2019		No reporting	52%	50%	47%			
Panasonic	Japan	2019	2050		3%	1%					
Pearson	UK	2015	2018		100%	100%	100%	100%	100%	100%	Pearson sources 97% is compliant source renewable regu
PepsiCo	US	2020	2040		10%						
Pernod Ricard	France	2019	2025		69%						
PNC Financial Services Group	US	2019	2025		0%	1%					
Procter & Gamble	US	2015	2030	20% by 2020	23%	11%	10%	10%	33%		
Proximus	Belgium	2015	2020		100%	99%	98%	98%	98%	98%	
PVH	US	2018	2030	50% by 2025	28%	22%	0%				
PwC	UK	2018	2050	70% by 2022	53%	44%	37%				
QBE Insurance Group	Australia	2019	2025		63%	0%					
QTS	US	2019	2025		29%	20%					
Rackspace Hosting Inc	US	2016	2026	Increase RE consumption by 5% per year	0%	0%	55%	50%	45%		
Radio Flyer	US	2019	2020		0%	0%					
Rakuten	Japan	2019	2025		51%						
Ralph Lauren	US	2019	2025		2%						
Reckitt Benckiser	UK	2018	2030		32%	31%	35%	15%			
Refinitiv	UK	2020	2020		100%						Refinitiv sources t of which is compli- to source renewa LATAM and Africa
RELX Group	UK	2014	2020		75%	81%	72%	62%	50%		
Ricoh	Japan	2017	2050	30% by 2030	13%	9%	15%	3%			
Royal Philips	Netherlands	2017	2020		95%	90%	79%	62%			Royal Philips sour but 92% is compl unable to source r
Salesforce	US	2015	2022		59%	55%	50%	35%	37%		
Sanofi	France	2020	2030		8%						
SAP SE	Germany	2015	2014		100%	100%	100%	100%	100%	100%	SAP SE sources the electricity, but 8 regular basis, SA prices, availabilit SAP SE has not sour
Schneider Electric	France	2017	2030	80% by 2020	50%	30%	2%	0.25%			
Schroders	UK	2018	2025	75% by 2020	67%	65%	70%				

rriers face	C
The stace	

the equivalent of 100% of its electricity consumption from RE, but with the RE100 market boundary criteria. Pearson was unable to les locally in Sri Lanka and other makets in South East Asia due to ulatory barriers or lack of availability of renewables.

the equivalent of 100% of its electricity consumption from RE, 94% iant with the RE100 market boundary criteria. Refinitiv was unable ables locally for the remaining 6% which includes markets in Asia, a due to technical feasibilities or lack of availability of renewables.

rces the equivalent of 95% of its electricity consumption from RE, bliant with the RE100 market boundary criteria. Royal Philips was renewables locally in 7 markets in Asia, due to regulatory barriers or lack of availability of renewables.

e equivalent of 100% of its electricity consumption from renewable 88% is compliant with the RE100 market boundary criteria. On a SAP is evaluating current market conditions, regulatory barriers, ity and quality criteria of renewable electricity offerings. In 2019, t invested in smaller markets and has not procured renewable rces locally in 35 markets in Asia, LATAM and Africa.

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Company	ЦО	loining yogr	100% renewable electricity	Interim target year		Progress a	ıgainst 100% re	eneawble elect	ricity goal		
company	II Q	Johning year	goal (target year)	internit target year	2019	2018	2017	2016	2015	2014	
Sekisui Chemical Co., Ltd.	Japan	2020	2050		0%						
Sekisui House, Ltd.	Japan	2017	2040	50% by 2030	3%	17%	17%	3%			
SGS	Switzerland	2015	2025		94%	93%	86%	89%	71%	75%	SGS sources the e of which 75% regulatory barried renew
Signify	Netherlands	2014	2020		94%	89%	80%	67%	58%	54%	Signify sources th found it extremely Asia, LATAM and A
Sky	UK	2016	2016		99%	62%	62%	100%	76%	75%	
Slaughter and May	UK	2019	2040		90%	86%					
Sony Corporation	Japan	2018	2040	30% by 2030	5%	5%	5%				
Starbucks Corporation	US	2015	2020		72%	76%	62%	100%	100%	59%	
Steelcase	US	2015	2014		100%	100%	100%	100%	100%	100%	Steelcase source but 86% is compli unable to source regu
Sumitomo Forestry	Japan	2020	2014		16%						
Suncorp	Australia	2020	2025		0%						
Sungrow	China	2020	2028	60% by 2025	11%						
Swiss Post	Switzerland	2015	2013		100%	100%	100%	100%	100%	100%	
Swiss Re	Switzerland	2014	2020		93%	93%	84%	87%	87%	80%	
Swisscom Ltd.	Switzerland	2019	2019		100%	100%					
Symrise	Switzerland	2019	2025		16%						
T-Mobile USA	US	2018	2021		35%	19%	1%				
Takashimaya	Japan	2019	2050		0%	0%					
Target	US	2019	2030		10%	6%					
Tata Motors	India	2016	2030	50% by 2022	21%	17%	21%	16%	8%	8%	
TCI Co., Ltd.	Taiwan	2018	2030	15-30% by 2020	10%	10%	0%				
TD Bank Group	Canada	2016	2017		100% *	100%	100%	100%	100%		
Telefonica	Spain	2017	2030	85% by 2025	82%	58%	47%	44%			
Tesco	UK	2017	2030	65% by 2020 80% by 2025	68%	58%	55%	24%			
Tetra Pak	Switzerland	2016	2030	80% by 2020	69%	55%	45%	35%	22%		Tetra Pak sources is compliant with whole amount is c of budgeting and Tetra Pak's glob high costs c
The Bozzuto Group	US	2019	2040	75% by 2030	No reporting	0%					
The Crown Estate	UK	2018	2022		No reporting	77%	69%				
The Estée Lauder Companies	US	2017	2020		66%	65%	51%	45%			
The Johnan Shinkin Bank	Japan	2018	2050	50% by 2030	100%		0%				
The Mayor and Commonalty and Citizens of the City of London	UK	2019	2022		100%	100%					
The VELUX Group	Denmark	2020	2023		23%						

equivalent of 94% of its electricity consumption from renewables, is compliant with the RE100 market boundary criteria. Due to ers or lack of availability of renewables, SGS was unable to source wables locally in 28 markets in Asia, LATAM and Africa.

ne equivalent of 94% of its electricity consumption from RE. Signify y challenging to source renewables locally in 12 markets in Pacific, Africa due to lack of availability of renewables compliant with the RE100 market boundary criteria.

ces the equivalent of 100% of its electricity consumption from RE, liant with the RE100 new market boundary criteria. Steelcase was e renewables locally in 9 markets in Asia and LATAM and due to ulatory barriers or lack of availability of renewables.

s the equivalent of 69% of its electricity consumption from RE, 64% h the 2020 definition of RE100 market boundary criteria, and the compliant with the RE100 market boundary criteria in force at time d procurement contracting. For the remaining 31%, almost 20% of cal electricity consumption remains in markets with prohibitively or no functioning tracking system for renewable electricity.



Company			100% renewable electricity			Progress	against 100% r	eneawble elec	tricity goal:		
Company	ΗQ	Joining year	goal (target year)	interim target year	2019	2018	2017	2016	2015	2014	
The Wonderful Company	US	2019	2040	100% in the US by 2025	2%	2%					
Toda Corporation	Japan	2019	2050	50% by 2040	5%	0%					
Tokyu Corporation	Japan	2019	2050		1%						
Tokyu Land Corporation	Japan	2019	2050		0%	0%					
Trane Technologies	US	2019	2040	60% by 2030	23%	1%					
TRIDL	Taiwan	2018	2049	15% by 2019 30% by 2020 60% by 2035 90% by 2045	0%	0%	0%				
тѕмс	Taiwan	2020	2050	25% by 2030	7%						
UBS	Switzerland	2015	2020		70%	59%	56%	56%	53%	53%	
Unilever	Netherlands/UK	2015	2020		81%	54%	57%	64%	45%	45%	
Vail Resorts	US	2017	2030	50% by 2025	8%	2%	1%	1%			
Vaisala	Finland	2015	2020		89%	94%	91%	89%	82%	86%	
Vestas	Denmark	2017	2013		82%	100%	100%	100%			
VF Corporation	US	2016	2025		22%	14%	6%	5%	5%		
Virgin Media	UK	2019	2020		100%	99.5%					
Visa	US	2018	2019		27%	27%	11%				
VMWare Inc.	US	2017	2020		97 or 99%	94%	77%	72%	71%		VMWare sources 42% is compliant source renewable
Vodafone Group	UK	2018	2025		26%	15%	14%				
Voya Financial	US	2015	2007		100%	100%	100%	100%	100%	100%	
Wal-Mart	US	2015	2025		9%	9%	9%	26%		26%	
Watami Co., Ltd.	Japan	2018	2040	50% by 2035	0%	0%	0%				
Wells Fargo	US	2016	2020		100%	100%	100%	5%	23%		In 2019 Wells Fa the electricity co global electrici this consistent wi 2019. Wells Fargo renewable energy
Westpac	Australia	2019	2025		0%						
WeWork	US	2018	2025	20% by 2020	5%	1%	0%				
Workday	US	2016	2008		100%	100%	100%	100%	100%		Workday sources 99,8% is compliar to source renew availability of re remaining deman drive RE developr
WPP	UK	2020	2025		37%						
YOOX NET-A-PORTER GROUP	Italy	2014	2020		93%	65%	37%	35%	80%	81%	
Zalando	Germany	2020	2025		99%						
Zurich Insurance Company Ltd	Switzerland	2019	2022		53%	55%					

Barriers faced

s the equivalent of 44% of its electricity consumption from RE, but with the RE100 market boundary criteria. VMWare was unable to es locally in Singapore and Argentina due to lack of availability of renewables.

argo sourced market-matched renewable electricity for 100% of onsumption associated with its RE100 goal. 100% of Wells Fargo's city consumption is sourced as renewable energy, with 99.8% of vith the market-matched criteria released by RE100 in December o looks forward to working with other RE100 members to improve opportunities in the markets that make up less than 0.2% of Wells Fargo's electricity consumption.

s the equivalent of 100% of its electricity consumption from RE, but nt with the RE100 market boundary criteria. Workday was unable wables locally in Singapore due to regulatory barriers or lack of enewables. The company has shown leadership by 'topping up' nd using renewable energy certificates from adjacent countries to ment more generally while we work together to improve supply in more difficult markets

*Company did not report in sufficient detail for RE100 to verify whether the target was achieved in line with the RE100 criteria in all markets

