

**Consumption of purchased electricity (MWh)**

117.610,26

**Consumption of self-generated electricity (MWh)**

0

**Is this electricity consumption excluded from your RE100 commitment?**

No

**Consumption of purchased heat, steam, and cooling (MWh)**

2.362

**Consumption of self-generated heat, steam, and cooling (MWh)**

0

**Total non-fuel energy consumption (MWh) [Auto-calculated]**

119.972,26

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**Country/area**

Hungary

**Consumption of purchased electricity (MWh)**

160.139,13

**Consumption of self-generated electricity (MWh)**

0

**Is this electricity consumption excluded from your RE100 commitment?**

No

**Consumption of purchased heat, steam, and cooling (MWh)**

14.619

**Consumption of self-generated heat, steam, and cooling (MWh)**

0

**Total non-fuel energy consumption (MWh) [Auto-calculated]**

174.758,13

---

**Country/area**

India

**Consumption of purchased electricity (MWh)**

2.500

**Consumption of self-generated electricity (MWh)**

0

**Is this electricity consumption excluded from your RE100 commitment?**

No

**Consumption of purchased heat, steam, and cooling (MWh)**

0

**Consumption of self-generated heat, steam, and cooling (MWh)**

0

**Total non-fuel energy consumption (MWh) [Auto-calculated]**

2.500

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**Country/area**

Montenegro

**Consumption of purchased electricity (MWh)**

18.300

**Consumption of self-generated electricity (MWh)**

0

**Is this electricity consumption excluded from your RE100 commitment?**

No

**Consumption of purchased heat, steam, and cooling (MWh)**

0

**Consumption of self-generated heat, steam, and cooling (MWh)**

0

**Total non-fuel energy consumption (MWh) [Auto-calculated]**

18.300

---

**Country/area**

North Macedonia

**Consumption of purchased electricity (MWh)**

32.007

**Consumption of self-generated electricity (MWh)**

77,29

**Is this electricity consumption excluded from your RE100 commitment?**

No

**Consumption of purchased heat, steam, and cooling (MWh)**

1.357

**Consumption of self-generated heat, steam, and cooling (MWh)**

0

**Total non-fuel energy consumption (MWh) [Auto-calculated]**

33.441,29

---

**Country/area**

Mexico

**Consumption of purchased electricity (MWh)**

605,12

**Consumption of self-generated electricity (MWh)**

0

**Is this electricity consumption excluded from your RE100 commitment?**

No

**Consumption of purchased heat, steam, and cooling (MWh)**

0

**Consumption of self-generated heat, steam, and cooling (MWh)**

0

**Total non-fuel energy consumption (MWh) [Auto-calculated]**

605,12

---

**Country/area**

Netherlands

**Consumption of purchased electricity (MWh)**

28.306,89

**Consumption of self-generated electricity (MWh)**

0

**Is this electricity consumption excluded from your RE100 commitment?**

No

**Consumption of purchased heat, steam, and cooling (MWh)**

163

**Consumption of self-generated heat, steam, and cooling (MWh)**

0

**Total non-fuel energy consumption (MWh) [Auto-calculated]**

28.469,89

---

**Country/area**

Poland

**Consumption of purchased electricity (MWh)**

239.772,3

**Consumption of self-generated electricity (MWh)**

567,78

**Is this electricity consumption excluded from your RE100 commitment?**

No

**Consumption of purchased heat, steam, and cooling (MWh)**

2.043

**Consumption of self-generated heat, steam, and cooling (MWh)**

0

**Total non-fuel energy consumption (MWh) [Auto-calculated]**

242.383,08

---

**Country/area**

Romania

**Consumption of purchased electricity (MWh)**

111.800,57

**Consumption of self-generated electricity (MWh)**

989

**Is this electricity consumption excluded from your RE100 commitment?**

No

**Consumption of purchased heat, steam, and cooling (MWh)**

0

**Consumption of self-generated heat, steam, and cooling (MWh)**

0

**Total non-fuel energy consumption (MWh) [Auto-calculated]**

112.789,57

---

**Country/area**

Russian Federation

**Consumption of purchased electricity (MWh)**

412,1

**Consumption of self-generated electricity (MWh)**

0

**Is this electricity consumption excluded from your RE100 commitment?**

No

**Consumption of purchased heat, steam, and cooling (MWh)**

0

**Consumption of self-generated heat, steam, and cooling (MWh)**

0

**Total non-fuel energy consumption (MWh) [Auto-calculated]**

412,1

---

**Country/area**

Singapore

**Consumption of purchased electricity (MWh)**

79,66

**Consumption of self-generated electricity (MWh)**

0

**Is this electricity consumption excluded from your RE100 commitment?**

No

**Consumption of purchased heat, steam, and cooling (MWh)**

0

**Consumption of self-generated heat, steam, and cooling (MWh)**

0

**Total non-fuel energy consumption (MWh) [Auto-calculated]**

79,66

---

**Country/area**

Slovakia

**Consumption of purchased electricity (MWh)**

105.711,86

**Consumption of self-generated electricity (MWh)**

11,6

**Is this electricity consumption excluded from your RE100 commitment?**

No

**Consumption of purchased heat, steam, and cooling (MWh)**

2.261,53

**Consumption of self-generated heat, steam, and cooling (MWh)**

14

**Total non-fuel energy consumption (MWh) [Auto-calculated]**

107.998,99

---

**Country/area**

United States of America

**Consumption of purchased electricity (MWh)**

8.336.284,57

**Consumption of self-generated electricity (MWh)**

0

**Is this electricity consumption excluded from your RE100 commitment?**

No

**Consumption of purchased heat, steam, and cooling (MWh)**

0

**Consumption of self-generated heat, steam, and cooling (MWh)**

0

**Total non-fuel energy consumption (MWh) [Auto-calculated]**

8.336.284,57

## C8.2h

**(C8.2h) Provide details of your organization's renewable electricity purchases in the reporting year by country/area.**

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**Country/area of consumption of purchased renewable electricity**

India

**Sourcing method**

Unbundled procurement of Energy Attribute Certificates (EACs)

**Renewable electricity technology type**

Hydropower (capacity unknown)

**Renewable electricity consumed via selected sourcing method in the reporting year (MWh)**

2.500

**Tracking instrument used**

I-REC

**Country/area of origin (generation) of purchased renewable electricity**

India

**Are you able to report the commissioning or re-powering year of the energy generation facility?**

Yes

**Commissioning year of the energy generation facility (e.g. date of first commercial operation or repowering)**

2013

**Vintage of the renewable energy/attribute (i.e. year of generation)**

2021

**Supply arrangement start year**

2022

**Additional, voluntary label associated with purchased renewable electricity**

No additional, voluntary label

**Comment**

ENERGY ADVISORY SERVICES PVT. LTD.

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**Country/area of consumption of purchased renewable electricity**

Singapore

**Sourcing method**

Unbundled procurement of Energy Attribute Certificates (EACs)

**Renewable electricity technology type**

Solar

**Renewable electricity consumed via selected sourcing method in the reporting year (MWh)**

79,66

**Tracking instrument used**

I-REC

**Country/area of origin (generation) of purchased renewable electricity**

Singapore

**Are you able to report the commissioning or re-powering year of the energy generation facility?**

No

**Commissioning year of the energy generation facility (e.g. date of first commercial operation or repowering)**

**Vintage of the renewable energy/attribute (i.e. year of generation)**

2022

**Supply arrangement start year**

2022

**Additional, voluntary label associated with purchased renewable electricity**

No additional, voluntary label

**Comment**

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**Country/area of consumption of purchased renewable electricity**

Mexico

**Sourcing method**

Unbundled procurement of Energy Attribute Certificates (EACs)

**Renewable electricity technology type**

Wind

**Renewable electricity consumed via selected sourcing method in the reporting year (MWh)**

605,12

**Tracking instrument used**

I-REC

**Country/area of origin (generation) of purchased renewable electricity**

Mexico

**Are you able to report the commissioning or re-powering year of the energy generation facility?**

Yes

**Commissioning year of the energy generation facility (e.g. date of first commercial operation or repowering)**

2014

**Vintage of the renewable energy/attribute (i.e. year of generation)**

2022

**Supply arrangement start year**

2022

**Additional, voluntary label associated with purchased renewable electricity**

No additional, voluntary label

**Comment**

ACT COMMODITIES BV

---

**Country/area of consumption of purchased renewable electricity**

Brazil

**Sourcing method**

Unbundled procurement of Energy Attribute Certificates (EACs)

**Renewable electricity technology type**

Wind

**Renewable electricity consumed via selected sourcing method in the reporting year (MWh)**

10.285

**Tracking instrument used**

I-REC

**Country/area of origin (generation) of purchased renewable electricity**

Brazil

**Are you able to report the commissioning or re-powering year of the energy generation facility?**

Yes

**Commissioning year of the energy generation facility (e.g. date of first commercial operation or repowering)**

2018

**Vintage of the renewable energy/attribute (i.e. year of generation)**

2022

**Supply arrangement start year**

2022

**Additional, voluntary label associated with purchased renewable electricity**

No additional, voluntary label

**Comment**

ATLANTIC ENERGIAS RENOVAVEIS SA

**Country/area of consumption of purchased renewable electricity**

Austria

**Sourcing method**

Default delivered renewable electricity from the grid, supported by energy attribute certificates

**Renewable electricity technology type**

Hydropower (capacity unknown)

**Renewable electricity consumed via selected sourcing method in the reporting year (MWh)**

206.416,07

**Tracking instrument used**

GO

**Country/area of origin (generation) of purchased renewable electricity**

Austria

**Are you able to report the commissioning or re-powering year of the energy generation facility?**

No

**Commissioning year of the energy generation facility (e.g. date of first commercial operation or repowering)**

**Vintage of the renewable energy/attribute (i.e. year of generation)**

2022

**Supply arrangement start year**

2022

**Additional, voluntary label associated with purchased renewable electricity**

No additional, voluntary label

**Comment**

ENERGIEALLIANZ Austria - Aqua

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**Country/area of consumption of purchased renewable electricity**

Austria

**Sourcing method**

Unbundled procurement of Energy Attribute Certificates (EACs)

**Renewable electricity technology type**

Hydropower (capacity unknown)

**Renewable electricity consumed via selected sourcing method in the reporting year (MWh)**

2.480

**Tracking instrument used**

GO

**Country/area of origin (generation) of purchased renewable electricity**

Austria

**Are you able to report the commissioning or re-powering year of the energy generation facility?**

No

**Commissioning year of the energy generation facility (e.g. date of first commercial operation or repowering)**

**Vintage of the renewable energy/attribute (i.e. year of generation)**

2022

**Supply arrangement start year**

2022

**Additional, voluntary label associated with purchased renewable electricity**

No additional, voluntary label

**Comment**

ÖBB-Infrastruktur AG

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**Country/area of consumption of purchased renewable electricity**

Switzerland

**Sourcing method**

Retail supply contract with an electricity supplier (retail green electricity)

**Renewable electricity technology type**

Hydropower (capacity unknown)

**Renewable electricity consumed via selected sourcing method in the reporting year (MWh)**

7.900

**Tracking instrument used**

Contract

**Country/area of origin (generation) of purchased renewable electricity**

Switzerland

**Are you able to report the commissioning or re-powering year of the energy generation facility?**

No

**Commissioning year of the energy generation facility (e.g. date of first commercial operation or repowering)**

**Vintage of the renewable energy/attribute (i.e. year of generation)**

2022

**Supply arrangement start year**

2021

**Additional, voluntary label associated with purchased renewable electricity**

No additional, voluntary label

**Comment**

Energie Wasser Bern AG

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**Country/area of consumption of purchased renewable electricity**

China

**Sourcing method**

Unbundled procurement of Energy Attribute Certificates (EACs)

**Renewable electricity technology type**

Wind

**Renewable electricity consumed via selected sourcing method in the reporting year (MWh)**

32

**Tracking instrument used**

I-REC

**Country/area of origin (generation) of purchased renewable electricity**

China

**Are you able to report the commissioning or re-powering year of the energy generation facility?**

Yes

**Commissioning year of the energy generation facility (e.g. date of first commercial operation or repowering)**

2014

**Vintage of the renewable energy/attribute (i.e. year of generation)**

2022

**Supply arrangement start year**

2022

**Additional, voluntary label associated with purchased renewable electricity**

No additional, voluntary label

**Comment**

ACT COMMODITIES BV

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**Country/area of consumption of purchased renewable electricity**

China

**Sourcing method**

Project-specific contract with an electricity supplier

**Renewable electricity technology type**

Solar

**Renewable electricity consumed via selected sourcing method in the reporting year (MWh)**

238,12

**Tracking instrument used**

I-REC

**Country/area of origin (generation) of purchased renewable electricity**

China

**Are you able to report the commissioning or re-powering year of the energy generation facility?**

No

**Commissioning year of the energy generation facility (e.g. date of first commercial operation or repowering)**

**Vintage of the renewable energy/attribute (i.e. year of generation)**

2022

**Supply arrangement start year**

2022

**Additional, voluntary label associated with purchased renewable electricity**

No additional, voluntary label

**Comment**

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**Country/area of consumption of purchased renewable electricity**

Czechia

**Sourcing method**

Unbundled procurement of Energy Attribute Certificates (EACs)

**Renewable electricity technology type**

Sustainable Biomass

**Renewable electricity consumed via selected sourcing method in the reporting year (MWh)**

30.224,83

**Tracking instrument used**

GO

**Country/area of origin (generation) of purchased renewable electricity**

Poland

**Are you able to report the commissioning or re-powering year of the energy generation facility?**

Yes

**Commissioning year of the energy generation facility (e.g. date of first commercial operation or repowering)**

2012

**Vintage of the renewable energy/attribute (i.e. year of generation)**

2021

**Supply arrangement start year**

2022

**Additional, voluntary label associated with purchased renewable electricity**

No additional, voluntary label

**Comment**

ACT Commodities BV

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**Country/area of consumption of purchased renewable electricity**

Czechia

**Sourcing method**

Retail supply contract with an electricity supplier (retail green electricity)

**Renewable electricity technology type**

Renewable electricity mix, please specify  
water, wind, sun

**Renewable electricity consumed via selected sourcing method in the reporting year (MWh)**

139.496

**Tracking instrument used**

Contract

**Country/area of origin (generation) of purchased renewable electricity**

Czechia

**Are you able to report the commissioning or re-powering year of the energy generation facility?**

No

**Commissioning year of the energy generation facility (e.g. date of first commercial operation or repowering)**

**Vintage of the renewable energy/attribute (i.e. year of generation)**

2022

**Supply arrangement start year**

2021

**Additional, voluntary label associated with purchased renewable electricity**

EKOenergy label

**Comment**

PRE

**Country/area of consumption of purchased renewable electricity**

Germany

**Sourcing method**

Physical power purchase agreement (physical PPA) with a grid-connected generator

**Renewable electricity technology type**

Wind

**Renewable electricity consumed via selected sourcing method in the reporting year (MWh)**

895.595,26

**Tracking instrument used**

Contract

**Country/area of origin (generation) of purchased renewable electricity**

Germany

**Are you able to report the commissioning or re-powering year of the energy generation facility?**

No

**Commissioning year of the energy generation facility (e.g. date of first commercial operation or repowering)**

**Vintage of the renewable energy/attribute (i.e. year of generation)**

2022

**Supply arrangement start year**

2021

**Additional, voluntary label associated with purchased renewable electricity**

No additional, voluntary label

**Comment**

MVV Trading, GETEC

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**Country/area of consumption of purchased renewable electricity**

Germany

**Sourcing method**

Unbundled procurement of Energy Attribute Certificates (EACs)

**Renewable electricity technology type**

Hydropower (capacity unknown)

**Renewable electricity consumed via selected sourcing method in the reporting year (MWh)**

1.195.349,9

**Tracking instrument used**

GO

**Country/area of origin (generation) of purchased renewable electricity**

Norway

**Are you able to report the commissioning or re-powering year of the energy generation facility?**

No

**Commissioning year of the energy generation facility (e.g. date of first commercial operation or repowering)**

**Vintage of the renewable energy/attribute (i.e. year of generation)**

2022

**Supply arrangement start year**

2022

**Additional, voluntary label associated with purchased renewable electricity**

No additional, voluntary label

**Comment**

ACT Commodities, B&D, Statkraft

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**Country/area of consumption of purchased renewable electricity**

Germany

**Sourcing method**

Direct line to an off-site generator owned by a third party with no grid transfers (direct-line PPA)

**Renewable electricity technology type**

Hydropower (capacity unknown)

**Renewable electricity consumed via selected sourcing method in the reporting year (MWh)**

175.200

**Tracking instrument used**

Contract

**Country/area of origin (generation) of purchased renewable electricity**

Austria

**Are you able to report the commissioning or re-powering year of the energy generation facility?**

No

**Commissioning year of the energy generation facility (e.g. date of first commercial operation or repowering)**

**Vintage of the renewable energy/attribute (i.e. year of generation)**

2022

**Supply arrangement start year**

2022

**Additional, voluntary label associated with purchased renewable electricity**

No additional, voluntary label

**Comment**

VERBUND

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**Country/area of consumption of purchased renewable electricity**

Denmark

**Sourcing method**

Retail supply contract with an electricity supplier (retail green electricity)

**Renewable electricity technology type**

Wind

**Renewable electricity consumed via selected sourcing method in the reporting year (MWh)**

23,25

**Tracking instrument used**

Contract

**Country/area of origin (generation) of purchased renewable electricity**

Denmark

**Are you able to report the commissioning or re-powering year of the energy generation facility?**

No

**Commissioning year of the energy generation facility (e.g. date of first commercial operation or repowering)**

**Vintage of the renewable energy/attribute (i.e. year of generation)**

2021

**Supply arrangement start year**

2022

**Additional, voluntary label associated with purchased renewable electricity**

No additional, voluntary label

**Comment**

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**Country/area of consumption of purchased renewable electricity**

Spain

**Sourcing method**

Unbundled procurement of Energy Attribute Certificates (EACs)

**Renewable electricity technology type**

Renewable electricity mix, please specify  
water, wind, solar

**Renewable electricity consumed via selected sourcing method in the reporting year (MWh)**

8.988

**Tracking instrument used**

GO

**Country/area of origin (generation) of purchased renewable electricity**

Spain

**Are you able to report the commissioning or re-powering year of the energy generation facility?**

No

**Commissioning year of the energy generation facility (e.g. date of first commercial operation or repowering)**

**Vintage of the renewable energy/attribute (i.e. year of generation)**

2022

**Supply arrangement start year**

2022

**Additional, voluntary label associated with purchased renewable electricity**

No additional, voluntary label

**Comment**

Aldro Energía y Soluciones S.L.

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**Country/area of consumption of purchased renewable electricity**

France

**Sourcing method**

Unbundled procurement of Energy Attribute Certificates (EACs)

**Renewable electricity technology type**

Wind

**Renewable electricity consumed via selected sourcing method in the reporting year (MWh)**

783,17

**Tracking instrument used**

GO

**Country/area of origin (generation) of purchased renewable electricity**

France

**Are you able to report the commissioning or re-powering year of the energy generation facility?**

No

**Commissioning year of the energy generation facility (e.g. date of first commercial operation or repowering)**

**Vintage of the renewable energy/attribute (i.e. year of generation)**

2022

**Supply arrangement start year**

2022

**Additional, voluntary label associated with purchased renewable electricity**

No additional, voluntary label

**Comment**

Edenkia

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**Country/area of consumption of purchased renewable electricity**

United Kingdom of Great Britain and Northern Ireland

**Sourcing method**

Retail supply contract with an electricity supplier (retail green electricity)

**Renewable electricity technology type**

Renewable electricity mix, please specify  
wind, water, solar

**Renewable electricity consumed via selected sourcing method in the reporting year (MWh)**

1.463,78

**Tracking instrument used**

Contract

**Country/area of origin (generation) of purchased renewable electricity**

United Kingdom of Great Britain and Northern Ireland

**Are you able to report the commissioning or re-powering year of the energy generation facility?**

No

**Commissioning year of the energy generation facility (e.g. date of first commercial operation or repowering)**

**Vintage of the renewable energy/attribute (i.e. year of generation)**

2022

**Supply arrangement start year**

2022

**Additional, voluntary label associated with purchased renewable electricity**

No additional, voluntary label

**Comment**

Bryt Energy

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**Country/area of consumption of purchased renewable electricity**

Greece

**Sourcing method**

Unbundled procurement of Energy Attribute Certificates (EACs)

**Renewable electricity technology type**

Renewable electricity mix, please specify  
water, wind, solar

**Renewable electricity consumed via selected sourcing method in the reporting year (MWh)**

423.370,27

**Tracking instrument used**

GO

**Country/area of origin (generation) of purchased renewable electricity**

Greece

**Are you able to report the commissioning or re-powering year of the energy generation facility?**

No

**Commissioning year of the energy generation facility (e.g. date of first commercial operation or repowering)**

**Vintage of the renewable energy/attribute (i.e. year of generation)**

2022

**Supply arrangement start year**

2022

**Additional, voluntary label associated with purchased renewable electricity**

No additional, voluntary label

**Comment**

Mytilineos, NRG, Public Power Corporation

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**Country/area of consumption of purchased renewable electricity**

Croatia

**Sourcing method**

Unbundled procurement of Energy Attribute Certificates (EACs)

**Renewable electricity technology type**

Wind

**Renewable electricity consumed via selected sourcing method in the reporting year (MWh)**

12.265,84

**Tracking instrument used**

GO

**Country/area of origin (generation) of purchased renewable electricity**

Norway

**Are you able to report the commissioning or re-powering year of the energy generation facility?**

Yes

**Commissioning year of the energy generation facility (e.g. date of first commercial operation or repowering)**

2018

**Vintage of the renewable energy/attribute (i.e. year of generation)**

2022

**Supply arrangement start year**

2022

**Additional, voluntary label associated with purchased renewable electricity**

No additional, voluntary label

**Comment**

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**Country/area of consumption of purchased renewable electricity**

Croatia

**Sourcing method**

Retail supply contract with an electricity supplier (retail green electricity)

**Renewable electricity technology type**

Hydropower (capacity unknown)

**Renewable electricity consumed via selected sourcing method in the reporting year (MWh)**

105.344,42

**Tracking instrument used**

Contract

**Country/area of origin (generation) of purchased renewable electricity**

Croatia

**Are you able to report the commissioning or re-powering year of the energy generation facility?**

No

**Commissioning year of the energy generation facility (e.g. date of first commercial operation or repowering)**

**Vintage of the renewable energy/attribute (i.e. year of generation)**

2022

**Supply arrangement start year**

2022

**Additional, voluntary label associated with purchased renewable electricity**

No additional, voluntary label

**Comment**

HEP

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**Country/area of consumption of purchased renewable electricity**

Hungary

**Sourcing method**

Unbundled procurement of Energy Attribute Certificates (EACs)

**Renewable electricity technology type**

Wind

**Renewable electricity consumed via selected sourcing method in the reporting year (MWh)**

158.000

**Tracking instrument used**

GO

**Country/area of origin (generation) of purchased renewable electricity**

Portugal

**Are you able to report the commissioning or re-powering year of the energy generation facility?**

Yes

**Commissioning year of the energy generation facility (e.g. date of first commercial operation or repowering)**

2009

**Vintage of the renewable energy/attribute (i.e. year of generation)**

2022

**Supply arrangement start year**

2022

**Additional, voluntary label associated with purchased renewable electricity**

No additional, voluntary label

**Comment**

ACT Commodities B.V.

---

**Country/area of consumption of purchased renewable electricity**

Hungary

**Sourcing method**

Unbundled procurement of Energy Attribute Certificates (EACs)

**Renewable electricity technology type**

Wind

**Renewable electricity consumed via selected sourcing method in the reporting year (MWh)**

2.139,13

**Tracking instrument used**

GO

**Country/area of origin (generation) of purchased renewable electricity**

Bulgaria

**Are you able to report the commissioning or re-powering year of the energy generation facility?**

No

**Commissioning year of the energy generation facility (e.g. date of first commercial operation or repowering)**

**Vintage of the renewable energy/attribute (i.e. year of generation)**

2021

**Supply arrangement start year**

2022

**Additional, voluntary label associated with purchased renewable electricity**

No additional, voluntary label

**Comment**

ACT Commodities B.V.

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**Country/area of consumption of purchased renewable electricity**

Montenegro

**Sourcing method**

Unbundled procurement of Energy Attribute Certificates (EACs)

**Renewable electricity technology type**

Hydropower (capacity unknown)

**Renewable electricity consumed via selected sourcing method in the reporting year (MWh)**

18.300

**Tracking instrument used**

GO

**Country/area of origin (generation) of purchased renewable electricity**

Bulgaria

**Are you able to report the commissioning or re-powering year of the energy generation facility?**

No

**Commissioning year of the energy generation facility (e.g. date of first commercial operation or repowering)**

**Vintage of the renewable energy/attribute (i.e. year of generation)**

2021

**Supply arrangement start year**

2022

**Additional, voluntary label associated with purchased renewable electricity**

No additional, voluntary label

**Comment**

ACT Commodities B.V.

---

**Country/area of consumption of purchased renewable electricity**

North Macedonia

**Sourcing method**

Unbundled procurement of Energy Attribute Certificates (EACs)

**Renewable electricity technology type**

Renewable electricity mix, please specify  
water, wind, solar

**Renewable electricity consumed via selected sourcing method in the reporting year (MWh)**

22.515

**Tracking instrument used**

GO

**Country/area of origin (generation) of purchased renewable electricity**

Netherlands

**Are you able to report the commissioning or re-powering year of the energy generation facility?**

No

**Commissioning year of the energy generation facility (e.g. date of first commercial operation or repowering)**

**Vintage of the renewable energy/attribute (i.e. year of generation)**

2022

**Supply arrangement start year**

2022

**Additional, voluntary label associated with purchased renewable electricity**

No additional, voluntary label

**Comment**

ACT Commodities B.V.

---

**Country/area of consumption of purchased renewable electricity**

North Macedonia

**Sourcing method**

Retail supply contract with an electricity supplier (retail green electricity)

**Renewable electricity technology type**

Renewable electricity mix, please specify  
wind, water, solar

**Renewable electricity consumed via selected sourcing method in the reporting year (MWh)**

9.492

**Tracking instrument used**

Contract

**Country/area of origin (generation) of purchased renewable electricity**

North Macedonia

**Are you able to report the commissioning or re-powering year of the energy generation facility?**

No

**Commissioning year of the energy generation facility (e.g. date of first commercial operation or repowering)**

**Vintage of the renewable energy/attribute (i.e. year of generation)**

2022

**Supply arrangement start year**

2022

**Additional, voluntary label associated with purchased renewable electricity**

No additional, voluntary label

**Comment**

RENEWABLE ENERGY SUPPLY RES DOO Skopje

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**Country/area of consumption of purchased renewable electricity**

Netherlands

**Sourcing method**

Retail supply contract with an electricity supplier (retail green electricity)

**Renewable electricity technology type**

Renewable electricity mix, please specify  
wind, water, solar, etc.

**Renewable electricity consumed via selected sourcing method in the reporting year (MWh)**

21.889,2

**Tracking instrument used**

Contract

**Country/area of origin (generation) of purchased renewable electricity**

Netherlands

**Are you able to report the commissioning or re-powering year of the energy generation facility?**

No

**Commissioning year of the energy generation facility (e.g. date of first commercial operation or repowering)**

**Vintage of the renewable energy/attribute (i.e. year of generation)**

2022

**Supply arrangement start year**

2021

**Additional, voluntary label associated with purchased renewable electricity**

No additional, voluntary label

**Comment**

ENGIE Energie Nederland N.V.

---

**Country/area of consumption of purchased renewable electricity**

Netherlands

**Sourcing method**

Unbundled procurement of Energy Attribute Certificates (EACs)

**Renewable electricity technology type**

Wind

**Renewable electricity consumed via selected sourcing method in the reporting year (MWh)**

6.417,69

**Tracking instrument used**

GO

**Country/area of origin (generation) of purchased renewable electricity**

Netherlands

**Are you able to report the commissioning or re-powering year of the energy generation facility?**

No

**Commissioning year of the energy generation facility (e.g. date of first commercial operation or repowering)**

**Vintage of the renewable energy/attribute (i.e. year of generation)**

2022

**Supply arrangement start year**

2022

**Additional, voluntary label associated with purchased renewable electricity**

No additional, voluntary label

**Comment**

NLDC B.V.

---

**Country/area of consumption of purchased renewable electricity**

Poland

**Sourcing method**

Unbundled procurement of Energy Attribute Certificates (EACs)

**Renewable electricity technology type**

Renewable electricity mix, please specify  
wind, solar

**Renewable electricity consumed via selected sourcing method in the reporting year (MWh)**

75.000

**Tracking instrument used**

GO

**Country/area of origin (generation) of purchased renewable electricity**

Poland

**Are you able to report the commissioning or re-powering year of the energy generation facility?**

Yes

**Commissioning year of the energy generation facility (e.g. date of first commercial operation or repowering)**

2013

**Vintage of the renewable energy/attribute (i.e. year of generation)**

2022

**Supply arrangement start year**

2022

**Additional, voluntary label associated with purchased renewable electricity**

No additional, voluntary label

**Comment**

Axpo Polska Sp. z o.o.

---

**Country/area of consumption of purchased renewable electricity**

Poland

**Sourcing method**

Unbundled procurement of Energy Attribute Certificates (EACs)

**Renewable electricity technology type**

Renewable electricity mix, please specify

wind, solar, biomass, etc.

**Renewable electricity consumed via selected sourcing method in the reporting year (MWh)**

164.772,3

**Tracking instrument used**

GO

**Country/area of origin (generation) of purchased renewable electricity**

Poland

**Are you able to report the commissioning or re-powering year of the energy generation facility?**

Yes

**Commissioning year of the energy generation facility (e.g. date of first commercial operation or repowering)**

2013

**Vintage of the renewable energy/attribute (i.e. year of generation)**

2022

**Supply arrangement start year**

2022

**Additional, voluntary label associated with purchased renewable electricity**

No additional, voluntary label

**Comment**

RESPECT ENERGY SPÓŁKA AKCYJNA

---

**Country/area of consumption of purchased renewable electricity**

Romania

**Sourcing method**

Retail supply contract with an electricity supplier (retail green electricity)

**Renewable electricity technology type**

Renewable electricity mix, please specify  
wind, water, solar, biomass

**Renewable electricity consumed via selected sourcing method in the reporting year (MWh)**

61.400

**Tracking instrument used**

Contract

**Country/area of origin (generation) of purchased renewable electricity**

**Are you able to report the commissioning or re-powering year of the energy generation facility?**

No

**Commissioning year of the energy generation facility (e.g. date of first commercial operation or repowering)**

**Vintage of the renewable energy/attribute (i.e. year of generation)**

2022

**Supply arrangement start year**

2022

**Additional, voluntary label associated with purchased renewable electricity**

No additional, voluntary label

**Comment**

Hidroelectrica SA

---

**Country/area of consumption of purchased renewable electricity**

Romania

**Sourcing method**

Unbundled procurement of Energy Attribute Certificates (EACs)

**Renewable electricity technology type**

Renewable electricity mix, please specify  
solar, hydro, wind

**Renewable electricity consumed via selected sourcing method in the reporting year (MWh)**

11.742

**Tracking instrument used**

GO

**Country/area of origin (generation) of purchased renewable electricity**

Bulgaria

**Are you able to report the commissioning or re-powering year of the energy generation facility?**

No

**Commissioning year of the energy generation facility (e.g. date of first commercial operation or repowering)**

**Vintage of the renewable energy/attribute (i.e. year of generation)**

2022

**Supply arrangement start year**

2022

**Additional, voluntary label associated with purchased renewable electricity**

No additional, voluntary label

**Comment**

---

**Country/area of consumption of purchased renewable electricity**

Romania

**Sourcing method**

Unbundled procurement of Energy Attribute Certificates (EACs)

**Renewable electricity technology type**

Large hydropower (>25 MW)

**Renewable electricity consumed via selected sourcing method in the reporting year (MWh)**

38.658,57

**Tracking instrument used**

GO

**Country/area of origin (generation) of purchased renewable electricity**

Iceland

**Are you able to report the commissioning or re-powering year of the energy generation facility?**

Yes

**Commissioning year of the energy generation facility (e.g. date of first commercial operation or repowering)**

1953

**Vintage of the renewable energy/attribute (i.e. year of generation)**

2022

**Supply arrangement start year**

2022

**Additional, voluntary label associated with purchased renewable electricity**

No additional, voluntary label

**Comment**

---

**Country/area of consumption of purchased renewable electricity**

Slovakia

**Sourcing method**

Unbundled procurement of Energy Attribute Certificates (EACs)

**Renewable electricity technology type**

Sustainable Biomass

**Renewable electricity consumed via selected sourcing method in the reporting year (MWh)**

18.900

**Tracking instrument used**

GO

**Country/area of origin (generation) of purchased renewable electricity**

Poland

**Are you able to report the commissioning or re-powering year of the energy generation facility?**

Yes

**Commissioning year of the energy generation facility (e.g. date of first commercial operation or repowering)**

2012

**Vintage of the renewable energy/attribute (i.e. year of generation)**

2021

**Supply arrangement start year**

2022

**Additional, voluntary label associated with purchased renewable electricity**

No additional, voluntary label

**Comment**

---

**Country/area of consumption of purchased renewable electricity**

Slovakia

**Sourcing method**

Retail supply contract with an electricity supplier (retail green electricity)

**Renewable electricity technology type**

Renewable electricity mix, please specify  
water, solar

**Renewable electricity consumed via selected sourcing method in the reporting year (MWh)**

81.019,76

**Tracking instrument used**

Contract

**Country/area of origin (generation) of purchased renewable electricity**

Slovakia

**Are you able to report the commissioning or re-powering year of the energy generation facility?**

No

**Commissioning year of the energy generation facility (e.g. date of first commercial operation or repowering)**

**Vintage of the renewable energy/attribute (i.e. year of generation)**

2022

**Supply arrangement start year**

2022

**Additional, voluntary label associated with purchased renewable electricity**

No additional, voluntary label

**Comment**

ZSE, VSE

---

**Country/area of consumption of purchased renewable electricity**

Slovakia

**Sourcing method**

Unbundled procurement of Energy Attribute Certificates (EACs)

**Renewable electricity technology type**

Renewable electricity mix, please specify  
water, solar

**Renewable electricity consumed via selected sourcing method in the reporting year (MWh)**

5.792,1

**Tracking instrument used**

GO

**Country/area of origin (generation) of purchased renewable electricity**

Slovakia

**Are you able to report the commissioning or re-powering year of the energy generation facility?**

No

**Commissioning year of the energy generation facility (e.g. date of first commercial operation or repowering)**

**Vintage of the renewable energy/attribute (i.e. year of generation)**

2022

**Supply arrangement start year**

2022

**Additional, voluntary label associated with purchased renewable electricity**

No additional, voluntary label

**Comment**

---

**Country/area of consumption of purchased renewable electricity**

United States of America

**Sourcing method**

Unbundled procurement of Energy Attribute Certificates (EACs)

**Renewable electricity technology type**

Renewable electricity mix, please specify  
Solid Waste-Tire Derived Fuel

**Renewable electricity consumed via selected sourcing method in the reporting year (MWh)**

12.122

**Tracking instrument used**

I-REC

**Country/area of origin (generation) of purchased renewable electricity**

United States of America

**Are you able to report the commissioning or re-powering year of the energy generation facility?**

No

**Commissioning year of the energy generation facility (e.g. date of first commercial operation or repowering)**

**Vintage of the renewable energy/attribute (i.e. year of generation)**

2021

**Supply arrangement start year**

2021

**Additional, voluntary label associated with purchased renewable electricity**

Other, please specify  
PJM, EIS Environmental Information Services

**Comment**

---

**Country/area of consumption of purchased renewable electricity**

United States of America

**Sourcing method**

Unbundled procurement of Energy Attribute Certificates (EACs)

**Renewable electricity technology type**

Renewable electricity mix, please specify

Hydro, Wind and Solar

**Renewable electricity consumed via selected sourcing method in the reporting year (MWh)**

3.645.450

**Tracking instrument used**

I-REC

**Country/area of origin (generation) of purchased renewable electricity**

United States of America

**Are you able to report the commissioning or re-powering year of the energy generation facility?**

No

**Commissioning year of the energy generation facility (e.g. date of first commercial operation or repowering)**

**Vintage of the renewable energy/attribute (i.e. year of generation)**

2021

**Supply arrangement start year**

2016

**Additional, voluntary label associated with purchased renewable electricity**

Green-e

**Comment**

---

**Country/area of consumption of purchased renewable electricity**

United States of America

**Sourcing method**

Financial (virtual) power purchase agreement (VPPA)

**Renewable electricity technology type**

Wind

**Renewable electricity consumed via selected sourcing method in the reporting year (MWh)**

511.735

**Tracking instrument used**

Contract

**Country/area of origin (generation) of purchased renewable electricity**

United States of America

**Are you able to report the commissioning or re-powering year of the energy generation facility?**

No

**Commissioning year of the energy generation facility (e.g. date of first commercial operation or repowering)**

**Vintage of the renewable energy/attribute (i.e. year of generation)**

2022

**Supply arrangement start year**

2022

**Additional, voluntary label associated with purchased renewable electricity**

Other, please specify

Enel

**Comment**

---

**Country/area of consumption of purchased renewable electricity**

United States of America

**Sourcing method**

Financial (virtual) power purchase agreement (VPPA)

**Renewable electricity technology type**

Wind

**Renewable electricity consumed via selected sourcing method in the reporting year (MWh)**

511.014

**Tracking instrument used**

Contract

**Country/area of origin (generation) of purchased renewable electricity**

United States of America

**Are you able to report the commissioning or re-powering year of the energy generation facility?**

No

**Commissioning year of the energy generation facility (e.g. date of first commercial operation or repowering)**

**Vintage of the renewable energy/attribute (i.e. year of generation)**

2022

**Supply arrangement start year**

2022

**Additional, voluntary label associated with purchased renewable electricity**

Other, please specify

DUKE ENERGY

**Comment**

---

**Country/area of consumption of purchased renewable electricity**

United States of America

**Sourcing method**

Financial (virtual) power purchase agreement (VPPA)

**Renewable electricity technology type**

Wind

**Renewable electricity consumed via selected sourcing method in the reporting year (MWh)**

567.887

**Tracking instrument used**

Contract

**Country/area of origin (generation) of purchased renewable electricity**

United States of America

**Are you able to report the commissioning or re-powering year of the energy generation facility?**

No

**Commissioning year of the energy generation facility (e.g. date of first commercial operation or repowering)**

**Vintage of the renewable energy/attribute (i.e. year of generation)**

2022

**Supply arrangement start year**

2017

**Additional, voluntary label associated with purchased renewable electricity**

Other, please specify

Solomon Forks Wind Projects

**Comment**

---

**Country/area of consumption of purchased renewable electricity**

United States of America

**Sourcing method**

Financial (virtual) power purchase agreement (VPPA)

**Renewable electricity technology type**

Solar

**Renewable electricity consumed via selected sourcing method in the reporting year (MWh)**

168.568

**Tracking instrument used**

Contract

**Country/area of origin (generation) of purchased renewable electricity**

United States of America

**Are you able to report the commissioning or re-powering year of the energy generation facility?**

No

**Commissioning year of the energy generation facility (e.g. date of first commercial operation or repowering)**

**Vintage of the renewable energy/attribute (i.e. year of generation)**

2022

**Supply arrangement start year**

2022

**Additional, voluntary label associated with purchased renewable electricity**

Other, please specify

Dominion Energy

**Comment**

---

**Country/area of consumption of purchased renewable electricity**

United States of America

**Sourcing method**

Financial (virtual) power purchase agreement (VPPA)

**Renewable electricity technology type**

Wind

**Renewable electricity consumed via selected sourcing method in the reporting year (MWh)**

517.445

**Tracking instrument used**

Contract

**Country/area of origin (generation) of purchased renewable electricity**

United States of America

**Are you able to report the commissioning or re-powering year of the energy generation facility?**

No

**Commissioning year of the energy generation facility (e.g. date of first commercial operation or repowering)**

**Vintage of the renewable energy/attribute (i.e. year of generation)**

**Supply arrangement start year**

2022

**Additional, voluntary label associated with purchased renewable electricity**

Other, please specify

Otter Creek Wind Farm

## Comment

---

### Country/area of consumption of purchased renewable electricity

United States of America

### Sourcing method

Financial (virtual) power purchase agreement (VPPA)

### Renewable electricity technology type

Wind

### Renewable electricity consumed via selected sourcing method in the reporting year (MWh)

72.884

### Tracking instrument used

Contract

### Country/area of origin (generation) of purchased renewable electricity

United States of America

### Are you able to report the commissioning or re-powering year of the energy generation facility?

No

### Commissioning year of the energy generation facility (e.g. date of first commercial operation or repowering)

### Vintage of the renewable energy/attribute (i.e. year of generation)

2022

### Supply arrangement start year

2019

**Additional, voluntary label associated with purchased renewable electricity**

Other, please specify

NEXTera Energy

**Comment**

---

**Country/area of consumption of purchased renewable electricity**

United States of America

**Sourcing method**

Financial (virtual) power purchase agreement (VPPA)

**Renewable electricity technology type**

Solar

**Renewable electricity consumed via selected sourcing method in the reporting year (MWh)**

506.250

**Tracking instrument used**

Contract

**Country/area of origin (generation) of purchased renewable electricity**

United States of America

**Are you able to report the commissioning or re-powering year of the energy generation facility?**

No

**Commissioning year of the energy generation facility (e.g. date of first commercial operation or repowering)**

**Vintage of the renewable energy/attribute (i.e. year of generation)**

2022

**Supply arrangement start year**

2019

**Additional, voluntary label associated with purchased renewable electricity**

Other, please specify

Rockhound Solar

**Comment**

---

**Country/area of consumption of purchased renewable electricity**

United States of America

**Sourcing method**

Retail supply contract with an electricity supplier (retail green electricity)

**Renewable electricity technology type**

Renewable electricity mix, please specify

Solar and Wind

**Renewable electricity consumed via selected sourcing method in the reporting year (MWh)**

706.304

**Tracking instrument used**

Contract

**Country/area of origin (generation) of purchased renewable electricity**

United States of America

**Are you able to report the commissioning or re-powering year of the energy generation facility?**

No

**Commissioning year of the energy generation facility (e.g. date of first commercial operation or repowering)**

**Vintage of the renewable energy/attribute (i.e. year of generation)**

2022

**Supply arrangement start year**

2022

**Additional, voluntary label associated with purchased renewable electricity**

Other, please specify

Constellation Energy

**Comment**

---

**Country/area of consumption of purchased renewable electricity**

United States of America

**Sourcing method**

Retail supply contract with an electricity supplier (retail green electricity)

**Renewable electricity technology type**

Renewable electricity mix, please specify

Hydro, Wind, Solar, Geothermal, Biomass

**Renewable electricity consumed via selected sourcing method in the reporting year (MWh)**

1.116.626

**Tracking instrument used**

Contract

**Country/area of origin (generation) of purchased renewable electricity**

United States of America

**Are you able to report the commissioning or re-powering year of the energy generation facility?**

No

**Commissioning year of the energy generation facility (e.g. date of first commercial operation or repowering)**

**Vintage of the renewable energy/attribute (i.e. year of generation)**

2022

**Supply arrangement start year**

2022

**Additional, voluntary label associated with purchased renewable electricity**

Other, please specify

Engie

**Comment**

---

**Country/area of consumption of purchased renewable electricity**

**Sourcing method**

**Renewable electricity technology type**

**Renewable electricity consumed via selected sourcing method in the reporting year (MWh)**

**Tracking instrument used**

**Country/area of origin (generation) of purchased renewable electricity**

**Are you able to report the commissioning or re-powering year of the energy generation facility?**

**Commissioning year of the energy generation facility (e.g. date of first commercial operation or repowering)**

**Vintage of the renewable energy/attribute (i.e. year of generation)**

**Supply arrangement start year**

**Additional, voluntary label associated with purchased renewable electricity**

**Comment**

## C8.2i

**(C8.2i) Provide details of your organization's low-carbon heat, steam, and cooling purchases in the reporting year by country/area..**

---

**Sourcing method**

Heat/steam/cooling supply agreement

**Country/area of consumption of low-carbon heat, steam or cooling**

Spain

**Energy carrier**

Cooling

**Low-carbon technology type**

Low-carbon energy mix

**Low-carbon heat, steam, or cooling consumed (MWh)**

3.899

**Comment**

## C8.2j

**(C8.2j) Provide details of your organization's renewable electricity generation by country/area in the reporting year.**

---

**Country/area of generation**

Slovakia

**Renewable electricity technology type**

Solar

**Facility capacity (MW)**

0,01

**Total renewable electricity generated by this facility in the reporting year (MWh)**

11,6

**Renewable electricity consumed by your organization from this facility in the reporting year (MWh)**

11,6

**Energy attribute certificates issued for this generation**

No

**Type of energy attribute certificate**

**Comment**

---

**Country/area of generation**

Germany

**Renewable electricity technology type**

Solar

**Facility capacity (MW)**

4,8

**Total renewable electricity generated by this facility in the reporting year (MWh)**

2.525,57

**Renewable electricity consumed by your organization from this facility in the reporting year (MWh)**

2.390,83

**Energy attribute certificates issued for this generation**

No

**Type of energy attribute certificate**

**Comment**

---

**Country/area of generation**

Czechia

**Renewable electricity technology type**

Solar

**Facility capacity (MW)**

0,01

**Total renewable electricity generated by this facility in the reporting year (MWh)**

4

**Renewable electricity consumed by your organization from this facility in the reporting year (MWh)**

4

**Energy attribute certificates issued for this generation**

No

**Type of energy attribute certificate**

**Comment**

---

**Country/area of generation**

Austria

**Renewable electricity technology type**

Solar

**Facility capacity (MW)**

0,06

**Total renewable electricity generated by this facility in the reporting year (MWh)**

27

**Renewable electricity consumed by your organization from this facility in the reporting year (MWh)**

27

**Energy attribute certificates issued for this generation**

No

**Type of energy attribute certificate**

**Comment**

**Country/area of generation**

Austria

**Renewable electricity technology type**

Geothermal

**Facility capacity (MW)**

0,01

**Total renewable electricity generated by this facility in the reporting year (MWh)**

3

**Renewable electricity consumed by your organization from this facility in the reporting year (MWh)**

3

**Energy attribute certificates issued for this generation**

No

**Type of energy attribute certificate**

**Comment**

---

**Country/area of generation**

Poland

**Renewable electricity technology type**

Solar

**Facility capacity (MW)**

0,6

**Total renewable electricity generated by this facility in the reporting year (MWh)**

560,38

**Renewable electricity consumed by your organization from this facility in the reporting year (MWh)**

560,38

**Energy attribute certificates issued for this generation**

No

**Type of energy attribute certificate**

**Comment**

---

**Country/area of generation**

Poland

**Renewable electricity technology type**

Wind

**Facility capacity (MW)**

0,01

**Total renewable electricity generated by this facility in the reporting year (MWh)**

7,4

**Renewable electricity consumed by your organization from this facility in the reporting year (MWh)**

7,4

**Energy attribute certificates issued for this generation**

No

**Type of energy attribute certificate**

**Comment**

---

**Country/area of generation**

North Macedonia

**Renewable electricity technology type**

Solar

**Facility capacity (MW)**

0,06

**Total renewable electricity generated by this facility in the reporting year (MWh)**

77,29

**Renewable electricity consumed by your organization from this facility in the reporting year (MWh)**

77,29

**Energy attribute certificates issued for this generation**

No

**Type of energy attribute certificate**

**Comment**

---

**Country/area of generation**

Greece

**Renewable electricity technology type**

Solar

**Facility capacity (MW)**

0,16

**Total renewable electricity generated by this facility in the reporting year (MWh)**

197,82

**Renewable electricity consumed by your organization from this facility in the reporting year (MWh)**

197,82

**Energy attribute certificates issued for this generation**

No

**Type of energy attribute certificate**

**Comment**

---

**Country/area of generation**

Greece

**Renewable electricity technology type**

Wind

**Facility capacity (MW)**

0,04

**Total renewable electricity generated by this facility in the reporting year (MWh)**

21,68

**Renewable electricity consumed by your organization from this facility in the reporting year (MWh)**

21,68

**Energy attribute certificates issued for this generation**

No

**Type of energy attribute certificate**

**Comment**

---

**Country/area of generation**

Romania

**Renewable electricity technology type**

Solar

**Facility capacity (MW)**

1,1

**Total renewable electricity generated by this facility in the reporting year (MWh)**

989

**Renewable electricity consumed by your organization from this facility in the reporting year (MWh)**

989

**Energy attribute certificates issued for this generation**

No

**Type of energy attribute certificate**

**Comment**

---

**Country/area of generation**

Spain

**Renewable electricity technology type**

Solar

**Facility capacity (MW)**

8,34

**Total renewable electricity generated by this facility in the reporting year (MWh)**

64

**Renewable electricity consumed by your organization from this facility in the reporting year (MWh)**

64

**Energy attribute certificates issued for this generation**

No

## Type of energy attribute certificate

### Comment

## C8.2k

**(C8.2k) Describe how your organization's renewable electricity sourcing strategy directly or indirectly contributes to bringing new capacity into the grid in the countries/areas in which you operate.**

The amount of DT electricity consumption in 2022 (12,255,729.11 MWh) was by 0.13 % lower than in the previous year.

Due to the high demand for electricity for telecommunication networks, self-production plays a limited role. In 2022 self-produced electricity from renewable sources decreased by 1.73 % to 4,488.74 MWh.

Through PPAs we are also able to support investments into new capacity for the production of electricity from renewable sources. The amount of electricity from PPAs in 2022 was increased by 20.07 % to 3,396,802.79 MWh.

Direct purchases from renewable sources decreased in 2022 by 4.14 % to 2,277,833.88 MWh.

The rest of 6,081,738.43 MWh was governed by renewable energy certificates as GoOs (2,370,762.350 MWh) and RECs (3,710,976.08 MWh).

Certificates only indirectly support investments in electricity from renewables by providing additional financial resources for electricity providers offering certificates. This effect depends on the prices for renewable electricity certificates based on supply and demand in the market.

## C8.2l

**(C8.2l) In the reporting year, has your organization faced any challenges to sourcing renewable electricity?**

|       | Challenges to sourcing renewable electricity         |
|-------|------------------------------------------------------|
| Row 1 | Yes, in specific countries/areas in which we operate |

## C8.2m

**(C8.2m) Provide details of the country/area-specific challenges to sourcing renewable electricity faced by your organization in the reporting year.**

| Country/area       | Reason(s) why it was challenging to source renewable electricity within selected country/area | Provide additional details of the barriers faced within this country/area                                                                                                                                                                         |
|--------------------|-----------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Russian Federation | Other, please specify<br>War in Ukraine                                                       | Because of the start of the war in Ukraine (business was closed after Q1) there was a company decision that electricity consumption from Russian entities (412.1 MWh) will be covered by renewable certificates bought by headquarter in Germany. |

## C9. Additional metrics

### C9.1

(C9.1) Provide any additional climate-related metrics relevant to your business.

#### Description

Other, please specify  
Energy intensity

#### Metric value

91

#### Metric numerator

Energy consumption in kWh

#### Metric denominator (intensity metric only)

IP data volume in terabytes

#### % change from previous year

11

**Direction of change**

Decreased

**Please explain**

---

**Description**

Energy usage

**Metric value**

13,3

**Metric numerator**

Total energy consumption in TWh

**Metric denominator (intensity metric only)**

**% change from previous year**

0

**Direction of change**

No change

**Please explain**

Despite a growth in the number of customers and revenues DT managed to keep the electricity consumption stable on group level.

---

**Description**

Waste

**Metric value**

91.109

**Metric numerator**

Tons of waste

**Metric denominator (intensity metric only)**

**% change from previous year**

5

**Direction of change**

Increased

**Please explain**

---

**Description**

Other, please specify  
Water Consumption

**Metric value**

2.341.916

**Metric numerator**

m<sup>3</sup> water consumed

**Metric denominator (intensity metric only)**

**% change from previous year**

11

**Direction of change**

Decreased

**Please explain**

---

**Description**

Land use

**Metric value**

11.876.757

**Metric numerator**

m<sup>2</sup> space being used

**Metric denominator (intensity metric only)**

**% change from previous year**

4

**Direction of change**

Decreased

**Please explain**

**Description**

Other, please specify

Take back mobile devices (ESG KPI)

**Metric value**

3,8

**Metric numerator**

Mobile devices collected (in thousands)

**Metric denominator (intensity metric only)**

Mobile devices sold (in millions)

**% change from previous year**

3

**Direction of change**

Increased

**Please explain**

---

**Description**

Other, please specify

Sustainability revenue quota

**Metric value**

42

**Metric numerator**

Sustainable revenues in GER & Europe \* 100

**Metric denominator (intensity metric only)**

Revenues total in GER & Europe

**% change from previous year**

0

**Direction of change**

No change

**Please explain**

## C10. Verification

### C10.1

**(C10.1) Indicate the verification/assurance status that applies to your reported emissions.**

|                                          | Verification/assurance status                          |
|------------------------------------------|--------------------------------------------------------|
| Scope 1                                  | Third-party verification or assurance process in place |
| Scope 2 (location-based or market-based) | Third-party verification or assurance process in place |
| Scope 3                                  | Third-party verification or assurance process in place |

### C10.1a

**(C10.1a) Provide further details of the verification/assurance undertaken for your Scope 1 emissions, and attach the relevant statements.**

**Verification or assurance cycle in place**

Annual process

**Status in the current reporting year**

Complete

**Type of verification or assurance**

Reasonable assurance

**Attach the statement**

 DTAG\_assurance reports 2022\_gesamt.pdf

 entire-dtag-ar22.pdf

 cr\_en\_2022\_dt\_final.pdf

**Page/ section reference**

- (GHG) emissions subject of the assurance : page 2 (DTAG\_assurance reports 2022\_gesamt.pdf)
- Covered period: page 2 (DTAG\_assurance reports 2022\_gesamt.pdf)
- Verification standard: page 2 (DTAG\_assurance reports 2022\_gesamt.pdf)
- Boundaries page 1 (DTAG\_assurance reports 2022\_gesamt.pdf)
- Opinion or finding which confirms verification: page 2 (DTAG\_assurance reports 2022\_gesamt.pdf)

**Relevant standard**

ISAE3000

**Proportion of reported emissions verified (%)**

100

## C10.1b

**(C10.1b) Provide further details of the verification/assurance undertaken for your Scope 2 emissions and attach the relevant statements.**

---

### Scope 2 approach

Scope 2 market-based

### Verification or assurance cycle in place

Annual process

### Status in the current reporting year

Complete

### Type of verification or assurance

Reasonable assurance

### Attach the statement

📎 DTAG\_assurance reports 2022\_gesamt.pdf

📎 entire-dtag-ar22.pdf

📎 cr\_en\_2022\_dt\_final.pdf

### Page/ section reference

- (GHG) emissions subject of the assurance : page 2 (DTAG\_assurance reports 2022\_gesamt.pdf)
- Covered period: page 2 (DTAG\_assurance reports 2022\_gesamt.pdf)
- Verification standard: page 2 (DTAG\_assurance reports 2022\_gesamt.pdf)

- Boundaries page 1 (DTAG\_assurance reports 2022\_gesamt.pdf)
- Opinion or finding which confirms verification: page 2 (DTAG\_assurance reports 2022\_gesamt.pdf)

**Relevant standard**

ISAE3000

**Proportion of reported emissions verified (%)**

100

---

**Scope 2 approach**

Scope 2 location-based

**Verification or assurance cycle in place**

Annual process

**Status in the current reporting year**

Complete

**Type of verification or assurance**

Limited assurance

**Attach the statement**

 DTAG\_assurance reports 2022\_gesamt.pdf

 entire-dtag-ar22.pdf

 cr\_en\_2022\_dt\_final.pdf

**Page/ section reference**

- (GHG) emissions subject of the assurance : page 2 (DTAG\_assurance reports 2022\_gesamt.pdf)
- Covered period: page 2 (DTAG\_assurance reports 2022\_gesamt.pdf)

- Verification standard: page 2 (DTAG\_assurance reports 2022\_gesamt.pdf)
- Boundaries page 1 (DTAG\_assurance reports 2022\_gesamt.pdf)
- Opinion or finding which confirms verification: page 2 (DTAG\_assurance reports 2022\_gesamt.pdf)

**Relevant standard**

ISAE3000

**Proportion of reported emissions verified (%)**

100

## C10.1c

**(C10.1c) Provide further details of the verification/assurance undertaken for your Scope 3 emissions and attach the relevant statements.**

---

**Scope 3 category**

Scope 3: Purchased goods and services

Scope 3: Capital goods

Scope 3: Fuel and energy-related activities (not included in Scopes 1 or 2)

Scope 3: Use of sold products

Scope 3: Downstream leased assets

**Verification or assurance cycle in place**

Annual process

**Status in the current reporting year**

Complete

**Type of verification or assurance**

Limited assurance

### **Attach the statement**

-  DTAG\_assurance reports 2022\_gesamt.pdf
-  entire-dtag-ar22.pdf
-  cr\_en\_2022\_dt\_final.pdf

### **Page/section reference**

- (GHG) emissions subject of the assurance : page 2 (DTAG\_assurance reports 2022\_gesamt.pdf)
- Covered period: page 2 (DTAG\_assurance reports 2022\_gesamt.pdf)
- Verification standard: page 2 (DTAG\_assurance reports 2022\_gesamt.pdf)
- Boundaries page 1 (DTAG\_assurance reports 2022\_gesamt.pdf)
- Opinion or finding which confirms verification: page 2 (DTAG\_assurance reports 2022\_gesamt.pdf)

### **Relevant standard**

ISAE3000

### **Proportion of reported emissions verified (%)**

100

## **C10.2**

**(C10.2) Do you verify any climate-related information reported in your CDP disclosure other than the emissions figures reported in C6.1, C6.3, and C6.5?**

Yes

## **C10.2a**

**(C10.2a) Which data points within your CDP disclosure have been verified, and which verification standards were used?**

| Disclosure module verification relates to | Data verified                                             | Verification standard                                                 | Please explain                                                                                                                           |
|-------------------------------------------|-----------------------------------------------------------|-----------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------|
| C5. Emissions performance                 | Year on year change in emissions (Scope 1 and 2)          | International Standard on Assurance Engagements (ISAE) 3000 (Revised) | DT CR-Report 2022, page 10, page 115<br> <sup>1</sup> |
| C5. Emissions performance                 | Year on year change in emissions (Scope 3)                | International Standard on Assurance Engagements (ISAE) 3000 (Revised) | DT CR-Report 2022, page 10, page 115                                                                                                     |
| C5. Emissions performance                 | Other, please specify<br>Carbon emission intensity        | International Standard on Assurance Engagements (ISAE) 3000 (Revised) | DT CR-Report 2022, page 10, page 114                                                                                                     |
| C5. Emissions performance                 | Other, please specify<br>Enablement factor                | International Standard on Assurance Engagements (ISAE) 3000 (Revised) | DT CR-Report 2022, page 122                                                                                                              |
| C8. Energy                                | Energy consumption                                        | International Standard on Assurance Engagements (ISAE) 3000 (Revised) | DT CR-Report 2022, page 125                                                                                                              |
| C8. Energy                                | Other, please specify<br>Energy intensity KPI             | International Standard on Assurance Engagements (ISAE) 3000 (Revised) | DT CR-Report 2022, page 124                                                                                                              |
| C12. Engagement                           | Other, please specify<br>Sustainable revenue quota        | International Standard on Assurance Engagements (ISAE) 3000 (Revised) | DT CR-Report 2022, page 68                                                                                                               |
| C12. Engagement                           | Other, please specify<br>ESG KPI CDP Supply Chain Program | International Standard on Assurance Engagements (ISAE) 3000 (Revised) | DT CR-Report 2022, page 45                                                                                                               |

 <sup>1</sup>cr\_en\_2022\_dt\_final.pdf

## C11. Carbon pricing

### C11.1

**(C11.1) Are any of your operations or activities regulated by a carbon pricing system (i.e. ETS, Cap & Trade or Carbon Tax)?**

No, and we do not anticipate being regulated in the next three years

### C11.2

**(C11.2) Has your organization canceled any project-based carbon credits within the reporting year?**

Yes

### C11.2a

**(C11.2a) Provide details of the project-based carbon credits canceled by your organization in the reporting year.**

---

**Project type**

Hydro

**Type of mitigation activity**

Emissions reduction

**Project description**

Projekt 1: 21-21-003: 65MW Dagushan Hydropower Project in China

Energy efficiency: Hydro

VCS 653

**Credits canceled by your organization from this project in the reporting year (metric tons CO2e)**

1.374

**Purpose of cancellation**

Voluntary offsetting

**Are you able to report the vintage of the credits at cancellation?**

Yes

**Vintage of credits at cancellation**

2016

**Were these credits issued to or purchased by your organization?**

Purchased

**Credits issued by which carbon-crediting program**

VCS (Verified Carbon Standard)

**Method(s) the program uses to assess additionality for this project**

Consideration of legal requirements

Investment analysis

**Approach(es) by which the selected program requires this project to address reversal risk**

Monitoring and compensation

Temporary crediting

**Potential sources of leakage the selected program requires this project to have assessed**

Not assessed

**Provide details of other issues the selected program requires projects to address**

The project additionally supports the SDGs 3 (good health & well being), 7 (affordable and clean energy), 8 (decent work and economic growth) and 13 (climate action)

**Comment**

---

**Project type**

Energy efficiency: households

**Type of mitigation activity**

Emissions reduction

**Project description**

21-21-001:

Neueth first phase of Anhua Rural Household Biodigester Project in China

Energy efficiency: Biogas

GS 1161

**Credits canceled by your organization from this project in the reporting year (metric tons CO<sub>2</sub>e)**

589

**Purpose of cancellation**

Voluntary offsetting

**Are you able to report the vintage of the credits at cancellation?**

Yes

**Vintage of credits at cancellation**

2011

**Were these credits issued to or purchased by your organization?**

Purchased

**Credits issued by which carbon-crediting program**

Gold Standard

**Method(s) the program uses to assess additionality for this project**

Consideration of legal requirements

Barrier analysis

**Approach(es) by which the selected program requires this project to address reversal risk**

Monitoring and compensation

Temporary crediting

**Potential sources of leakage the selected program requires this project to have assessed**

Not assessed

**Provide details of other issues the selected program requires projects to address**

The project additionally supports the SDGs 1 (no poverty), 3 (good health and well-being), 7 (affordable and clean energy), 8 (decent work and economic growth), 12 (responsible consumption and production) and 13 (climate action)

**Comment**

---

**Project type**

Hydro

**Type of mitigation activity**

Emissions reduction

**Project description**

Wasserkraft Paraiso, Brasilien (25-07-051)

**Credits canceled by your organization from this project in the reporting year (metric tons CO2e)**

15.502

**Purpose of cancellation**

Voluntary offsetting

**Are you able to report the vintage of the credits at cancellation?**

Yes

**Vintage of credits at cancellation**

2007

**Were these credits issued to or purchased by your organization?**

Purchased

**Credits issued by which carbon-crediting program**

CDM (Clean Development Mechanism)

**Method(s) the program uses to assess additionality for this project**

Consideration of legal requirements

Barrier analysis

Market penetration assessment

**Approach(es) by which the selected program requires this project to address reversal risk**

No risk of reversal

**Potential sources of leakage the selected program requires this project to have assessed**

Other, please specify

No leakage as per methodology

**Provide details of other issues the selected program requires projects to address**

The project additionally supports the SDGs 7 (affordable and clean energy), 8 (decent work and economic growth), 9 (industry, innovation and infrastructure), 10 (reduced inequalities), 13 (climate action) and 15 (life on land)

## Comment

---

### Project type

Fossil fuel switch

### Type of mitigation activity

Emissions reduction

### Project description

Brennstoffwechsel / Erneuerbare Biomasse (Ziegel), Brasilien (25-06-082)

The project consists of the fuel switch in São Judas Tadeu Ceramic that produces structural ceramic devices such as bricks. The plant maintains a temperature of 900°C for 72 hours and uses about 20,400 m<sup>3</sup> of native wood from Cerrado per year to feed the kilns, producing around 932,000 ceramic devices per month. The basis of the project is to use renewable biomasses to feed the kilns rather than wood from areas without sustainable forest management, which was a pioneering practice in the region.

### Credits canceled by your organization from this project in the reporting year (metric tons CO<sub>2</sub>e)

13.321

### Purpose of cancellation

Voluntary offsetting

### Are you able to report the vintage of the credits at cancellation?

Yes

### Vintage of credits at cancellation

2006

### Were these credits issued to or purchased by your organization?

Purchased

**Credits issued by which carbon-crediting program**

VCS (Verified Carbon Standard)

**Method(s) the program uses to assess additionality for this project**

Barrier analysis

**Approach(es) by which the selected program requires this project to address reversal risk**

Monitoring and compensation

**Potential sources of leakage the selected program requires this project to have assessed**

Ecological leakage

**Provide details of other issues the selected program requires projects to address**

The project additionally supports the SDGs 8 (decent work and economic growth), 9 (industry, innovation and infrastructure) and 15 (life on land)

**Comment**

## C11.3

**(C11.3) Does your organization use an internal price on carbon?**

Yes

## C11.3a

**(C11.3a) Provide details of how your organization uses an internal price on carbon.**

---

**Type of internal carbon price**

Shadow price

**How the price is determined**

Price/cost of voluntary carbon offset credits

**Objective(s) for implementing this internal carbon price**

Change internal behavior  
Drive energy efficiency  
Drive low-carbon investment  
Identify and seize low-carbon opportunities  
Stakeholder expectations

**Scope(s) covered**

Scope 1  
Scope 2

**Pricing approach used – spatial variance**

Uniform

**Pricing approach used – temporal variance**

Static

**Indicate how you expect the price to change over time**

**Actual price(s) used – minimum (currency as specified in C0.4 per metric ton CO2e)**

2,86

**Actual price(s) used – maximum (currency as specified in C0.4 per metric ton CO2e)**

4,76

**Business decision-making processes this internal carbon price is applied to**

Operations  
Procurement

**Mandatory enforcement of this internal carbon price within these business decision-making processes**

Yes, for some decision-making processes, please specify

We use this internal carbon/energy price at TM US as the benchmark for evaluating renewable energy purchases to align with annual budget.

**Explain how this internal carbon price has contributed to the implementation of your organization's climate commitments and/or climate transition plan**

Carbon Pricing is currently not implemented by US legislation. T-Mobile has its own internal carbon/energy price at \$4.75/MWh. This internal price places a monetary value on energy (and the resulting greenhouse gas emissions), which then factor into project selection decisions and business operations, prioritizing those that lower the company's carbon footprint progress towards 100% renewable energy. Our energy team has prioritized LED lighting improvements as they lower our spend on electricity and reduce our need to purchase REC's at our internal carbon price of \$4.75.

## C12. Engagement

### C12.1

**(C12.1) Do you engage with your value chain on climate-related issues?**

Yes, our suppliers

Yes, our customers/clients

### C12.1a

**(C12.1a) Provide details of your climate-related supplier engagement strategy.**

---

**Type of engagement**

Engagement & incentivization (changing supplier behavior)

### **Details of engagement**

Climate change performance is featured in supplier awards scheme

### **% of suppliers by number**

100

### **% total procurement spend (direct and indirect)**

100

### **% of supplier-related Scope 3 emissions as reported in C6.5**

100

### **Rationale for the coverage of your engagement**

The Supplier Code of Conduct requires suppliers to "disclose complete, consistent, accurate and verified by 3rd party scope 1, 2 and 3 greenhouse gas (GHG) emissions data and/or components required to calculate GHG emissions data, via the Carbon Disclosure Program (CDP) or an alternative method that DTAG will provide. If requested by DTAG, Suppliers must provide plans to reduce greenhouse gas (GHG) emissions in alignment with DTAG's requirements." Additional suppliers are mandatory to "minimize negative impacts on biodiversity and deforestation, climate change and water scarcity." Committing to the DT Supplier Code of Conduct is mandatory to enter into business with Deutsche Telekom.

### **Impact of engagement, including measures of success**

With respect to our new climate targets supply chain emission reductions are key. As around 70% of our scope 1-3 emissions result from purchases and 55% reduction of emissions by 2030 against 2020 will not possible without massive supply chain emission reduction. Therefore DT set up a taskforce with group corporate responsibility and all the different procurement organizations within DT.

Suppliers are obliged to provide emission transparency and provide carbon emission reduction plans in alignment with DT requirements.

Measures of success are:

100% supplier commitment to Supplier Code of Conduct

Supplier carbon emission reductions in line with DT 55% carbon reduction target for scope 1-3 by 2030 against 2020

### **Comment**

---

### **Type of engagement**

Information collection (understanding supplier behavior)

### **Details of engagement**

Collect GHG emissions data at least annually from suppliers

Collect targets information at least annually from suppliers

Collect climate-related risk and opportunity information at least annually from suppliers

Collect climate transition plan information at least annually from suppliers

Collect other climate related information at least annually from suppliers

### **% of suppliers by number**

2

### **% total procurement spend (direct and indirect)**

80

### **% of supplier-related Scope 3 emissions as reported in C6.5**

80

### **Rationale for the coverage of your engagement**

We invited 445 suppliers in 2022 (compared to 461 suppliers in 2021) to participate in the CDP Supply Chain Program. These suppliers cover more than 80% of our procurement (order) volume. The suppliers have been mainly selected by their procurement volume, as we see a strong linkage between spend volume and emissions.

The emission intensity of the respective industry has also been taken into consideration as e.g. software development has a significantly lower emission intensity than the production of IT hardware.

We have the target to cover as much supply chain related emissions as possible with invitations and answers to the CDP Supply Chain

Program. At least 70% of our procurement (order) volume should be covered by supplier answers to the CDP Supply Chain Program.

We provide feedback to the suppliers, based on the quality of their answers. We also conducted several meetings with our main suppliers with respect to their emission transparency and their emission reduction targets and initiatives, as we need their support from our suppliers to reduce supply chain related scope 3 emissions and to achieve our target to reduce the scope 3 emissions per customer by at least 25% till 2030. DT therefore also decided to support the CDP SBTI campaign 2022.

We are increasing the weight of sustainability in our tendering processes, which provides incentives for suppliers to increase their sustainability performance.

By participating in the GeSI supplier development program we also support our suppliers to improve their sustainability performance and respective carbon emission reductions.

### **Impact of engagement, including measures of success**

The success our supplier engagement is measured by the % of POV covered with answers to the CDP Supply Chain Program. We consider our program as successful, when there is an increase in the number of responding suppliers against the previous year and when we cover at least 70% of our POV by supplier answers to the CDP Supply Chain Program.

2022, 247 answers have been provided from our suppliers (2021: 268), covering around 70% of our POV (figure estimated, without TM US 52% POV coverage by supplier answers, 72% POV coverage 2021). DT suppliers participating in the program managed to reduce carbon emissions by 164 mio. t CO<sub>2</sub>e (2021: 206 mio. t CO<sub>2</sub>e) and by this saved 3 billion US\$ (2021: 1 billion US\$). Around 86% of the supplier emission reductions have been achieved by switching to low carbon energies (2021: 78%).

The answers provided to the CDP Supply Chain Program are included in the supplier sustainability evaluation process and build the bases for different meetings and workshops with suppliers on concrete carbon emissions reduction targets to support the DT net zero target 2040 for the whole value chain.

We are also looking into the POV spend coverage by answers with verified scope 1, 2 & 3 emission data and into the POV spend coverage by