

# CertiQ statistics May 2022

## Renewable electricity

### Guarantees of Origin

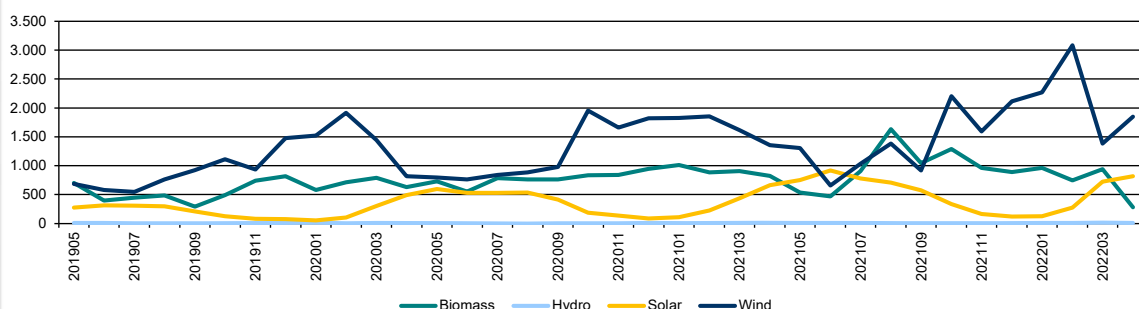
#### Production of renewable electricity in the Netherlands

(Based on issued Guarantees of Origin; in GWh)

Apr-2022 Last 12 months

	Apr-2022	Last 12 months
<b>Total</b>	<b>2.962,5</b>	<b>36.834,9</b>
Biomass	283,5	10.649,8
Hydro	9,6	96,5
Solar	818,3	6.288,8
Wind	1.851,1	19.799,8

#### Certified production of renewable electricity in the Netherlands (in GWh)



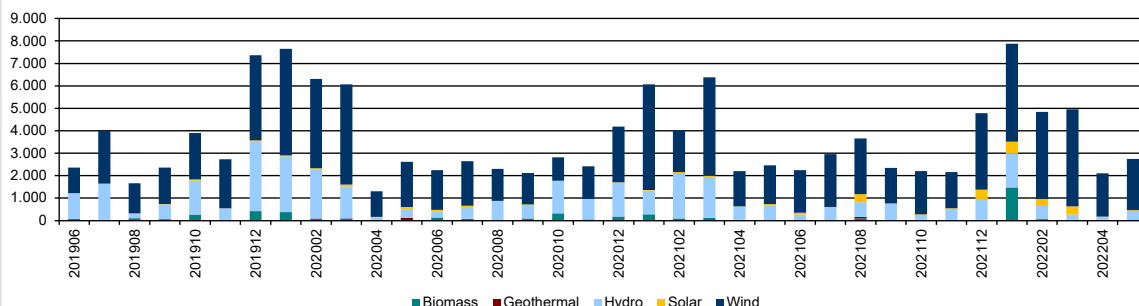
#### Imports of foreign Guarantees of Origin for renewable electricity

(In GWh)

May-2022 Last 12 months

	May-2022	Last 12 months
<b>Total</b>	<b>2.750,0</b>	<b>42.898,0</b>
Biomass	0,0	1.758,9
Geothermal	0,0	87,1
Hydro	431,3	6.824,7
Solar	38,3	2.177,4
Wind	2.280,5	32.049,8

#### Import of renewable electricity (in GWh)



#### Originating countries\* of imports

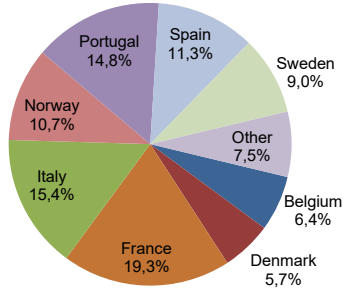
May 2022

	Biomass	Geothermal	Hydro	Solar	Wind	Total
<b>Total</b>	<b>0,0</b>	<b>0,0</b>	<b>431,3</b>	<b>38,3</b>	<b>2.280,5</b>	<b>2.750,0</b>
Belgium	0,0	0,0	0,0	0,0	73,7	73,7
Denmark	0,0	0,0	0,0	0,0	216,7	216,7
Germany	0,0	0,0	0,0	11,9	6,6	18,5
Estonia	0,0	0,0	0,0	0,0	0,0	0,0
Finland	0,0	0,0	0,0	0,0	26,7	26,7
France	0,0	0,0	51,8	0,0	328,2	379,9
Ireland	0,0	0,0	0,0	0,0	0,0	0,0
Iceland	0,0	0,0	4,6	0,0	0,0	4,6
Italy	0,0	0,0	6,3	26,4	263,1	295,9
Croatia	0,0	0,0	0,0	0,0	1,6	1,6
Latvia	0,0	0,0	0,0	0,0	9,3	9,3
Lithuania	0,0	0,0	0,0	0,0	0,0	0,0
Luxembourg	0,0	0,0	0,0	0,0	0,0	0,0
Norway	0,0	0,0	87,0	0,0	331,9	419,0
Austria	0,0	0,0	20,2	0,0	0,0	20,2
Portugal	0,0	0,0	107,5	0,0	617,4	724,9
Slovenia	0,0	0,0	0,1	0,0	0,0	0,1
Spain	0,0	0,0	29,0	0,0	26,6	55,6
Czech Republic	0,0	0,0	4,0	0,0	20,8	24,8
Sweden	0,0	0,0	120,8	0,0	357,7	478,5

\* I.e. the countries where the electricity was originally produced to which the imported Guarantees of Origin relate.

## Guarantees of Origin

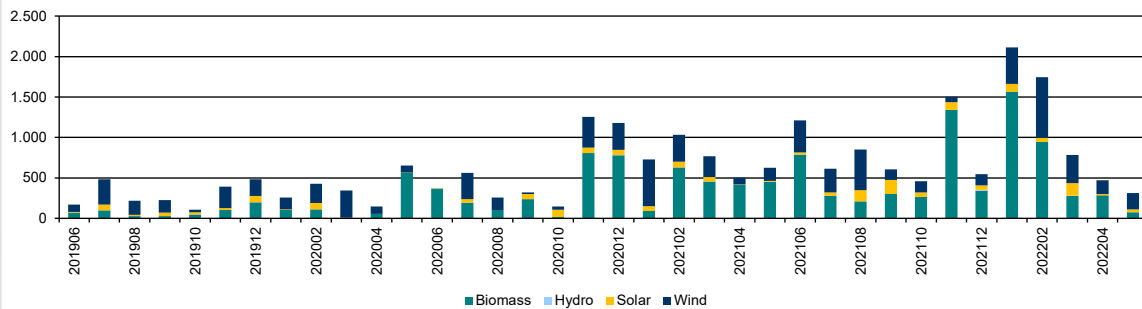
### Originating countries of imports during the last 12 months



### Exports of Dutch Guarantees of Origin for renewable electricity

(in GWh)		May-2022	Last 12 months
	<b>Total</b>	<b>311,4</b>	<b>11.218,5</b>
	Biomass	76,3	6.675,5
	Hydro	0,0	17,6
	Solar	34,2	938,1
	Wind	200,9	3.587,4

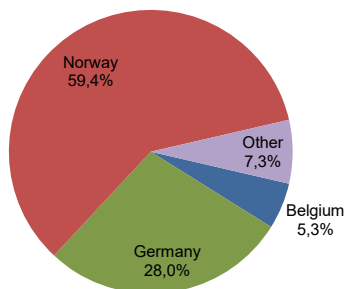
### Export of renewable electricity (in GWh)



### Destination countries of exports

May 2022		Biomass	Hydro	Solar	Wind	Total
(in GWh)	<b>Total</b>	<b>76,3</b>	<b>0,0</b>	<b>34,2</b>	<b>200,9</b>	<b>311,4</b>
	Austria	0,0	0,0	0,0	0,0	0,0
	Belgium	0,6	0,0	8,7	0,0	9,3
	Denmark	0,0	0,0	0,0	0,0	0,0
	Estonia	0,0	0,0	0,0	0,0	0,0
	Germany	0,0	0,0	0,0	74,0	74,0
	Finland	0,0	0,0	0,0	0,0	0,0
	France	0,0	0,0	0,0	0,0	0,0
	Italy	0,0	0,0	0,0	0,0	0,0
	Luxembourg	0,0	0,0	0,0	0,0	0,0
	Norway	75,7	0,0	25,5	126,9	228,2
	Portugal	0,0	0,0	0,0	0,0	0,0
	Czech Republic	0,0	0,0	0,0	0,0	0,0
	Sweden	0,0	0,0	0,0	0,0	0,0

### Destination countries of exports during the last 12 months



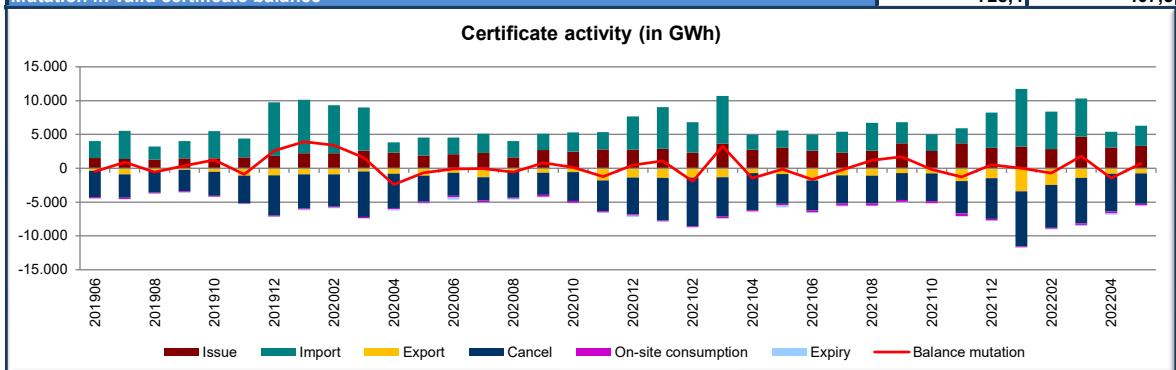
## Guarantees of Origin

Cancelled Guarantees of Origin for renewable electricity		May-2022	Last 12 months
(In GWh)	<b>Total</b>	<b>4.487,2</b>	<b>62.962,7</b>

Originating countries** of cancelled Guarantees of Origin for renewable electricity							
May 2022		Biomass	Geothermal	Hydro	Solar	Wind	Total
(In GWh)	<b>Total</b>	<b>192,1</b>	<b>0,0</b>	<b>358,8</b>	<b>438,8</b>	<b>3.497,5</b>	<b>4.482,6</b>
	Belgium	0,0	0,0	0,0	0,0	124,6	124,7
	Denmark	0,0	0,0	0,0	0,0	118,3	118,3
	Germany	0,0	0,0	0,0	12,7	13,6	26,3
	Estonia	0,0	0,0	0,0	0,0	7,5	7,5
	Finland	0,0	0,0	0,0	0,0	43,0	43,0
	France	24,6	0,0	13,1	9,0	294,8	341,6
	Ireland	0,0	0,0	0,0	0,0	0,0	0,0
	Iceland	0,0	0,0	16,6	0,0	0,0	16,6
	Italy	2,2	0,0	38,9	30,9	190,3	262,2
	Croatia	0,0	0,0	0,0	0,0	66,7	66,7
	Latvia	0,0	0,0	0,0	0,0	0,0	0,0
	Lithuania	0,0	0,0	0,0	0,0	0,0	0,0
	Luxembourg	0,0	0,0	0,0	0,0	0,0	0,0
	Netherlands	150,7	0,0	1,0	375,1	1.465,0	1.991,7
	Norway	1,1	0,0	127,2	0,0	322,6	450,9
	Austria	0,0	0,0	0,0	0,0	0,1	0,1
	Portugal	0,0	0,0	71,3	0,9	231,3	303,5
	Slovenia	0,0	0,0	0,1	0,0	0,0	0,1
	Spain	0,0	0,0	24,2	2,9	174,9	202,0
	Czech Republic	13,4	0,0	0,0	2,6	14,2	30,2
	Sweden	0,0	0,0	66,5	0,0	430,6	497,2

\*\* I.e. the countries where the electricity was originally produced to which the cancelled Guarantees of Origin relate.

Certificate activity (in GWh)	May-2022	Last 12 months
Issued certificates	3.317,3	37.590,6
Imported certificates	2.960,9	47.562,1
Increase of certificate balance	6.278,2	85.152,7
Exported certificates	752,6	17.657,6
Cancelled certificates	4.487,2	62.962,7
Certificates for on-site consumption (not tradable)	242,4	3.108,1
Expired certificates	67,6	1.016,8
Decrease of certificate balance	5.549,8	84.745,2
Increase of certificate balance	6.278,2	85.152,7
Decrease of certificate balance	5.549,8	84.745,2
Mutation in valid certificate balance	728,4	407,5



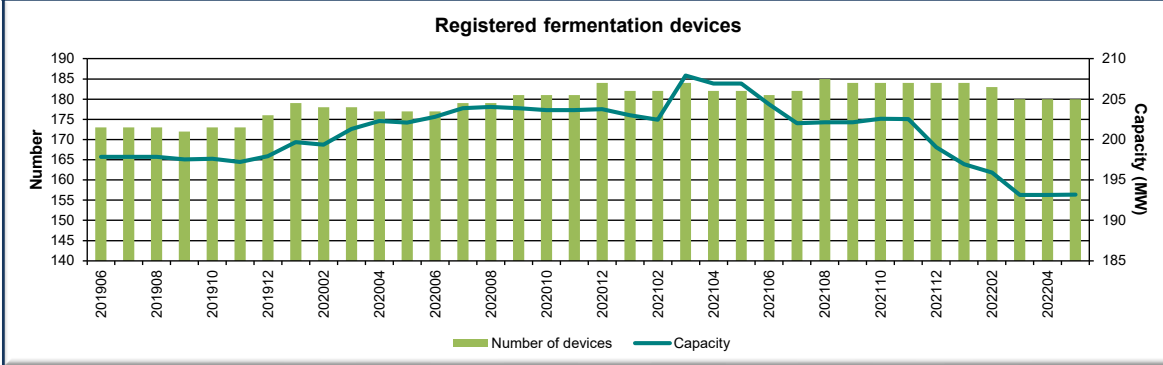
# Production devices electricity

## Production devices

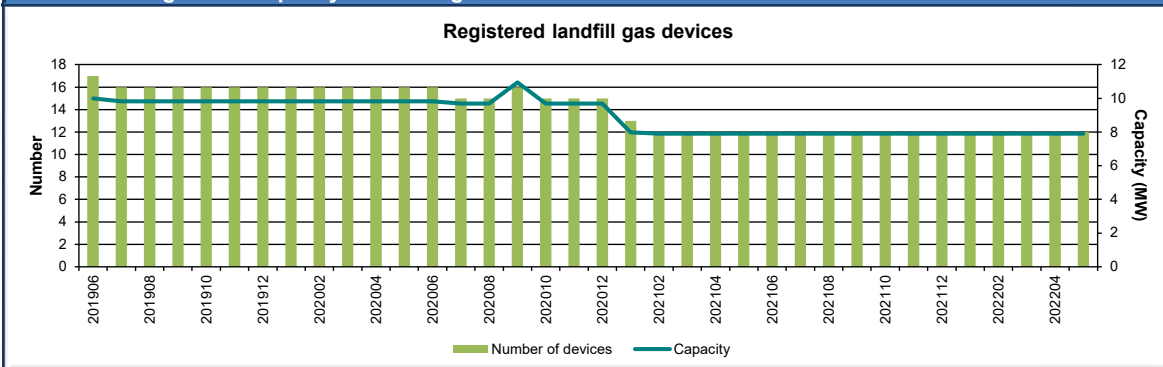
Per 01-06-2022

	Number	Capacity (MW)
<b>Total</b>	<b>33.667</b>	<b>21.492,3</b>
<b>Biomass</b>	264	5.306,4
<i>Of which:</i>		
Fermentation devices	180	193,2
Landfill gas devices	12	7,9
Waste incineration devices	16	797,2
Co-firing devices	5	3.991,0
Other biomass	51	317,1
<b>Hydro</b>	18	37,0
<b>Solar</b>	31.762	8.267,2
<b>Wind</b>	1.623	7.881,7

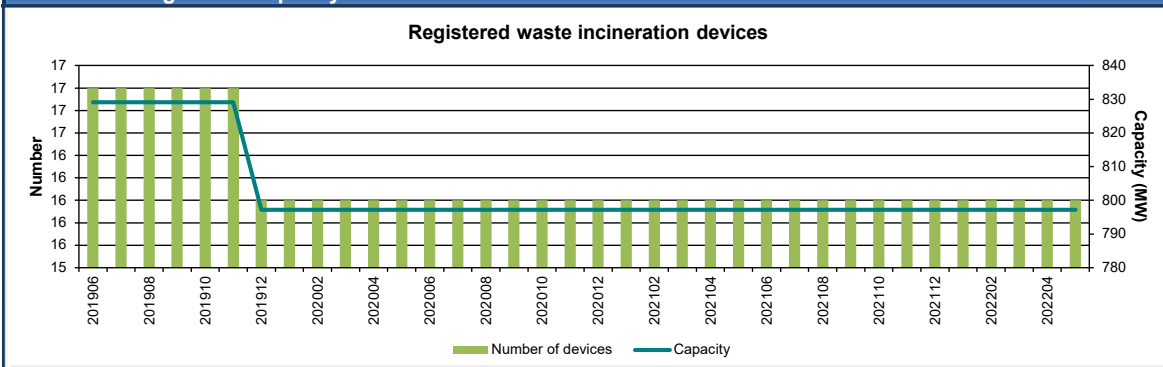
## Number and registered capacity of fermentation devices



## Number and registered capacity of landfill gas devices

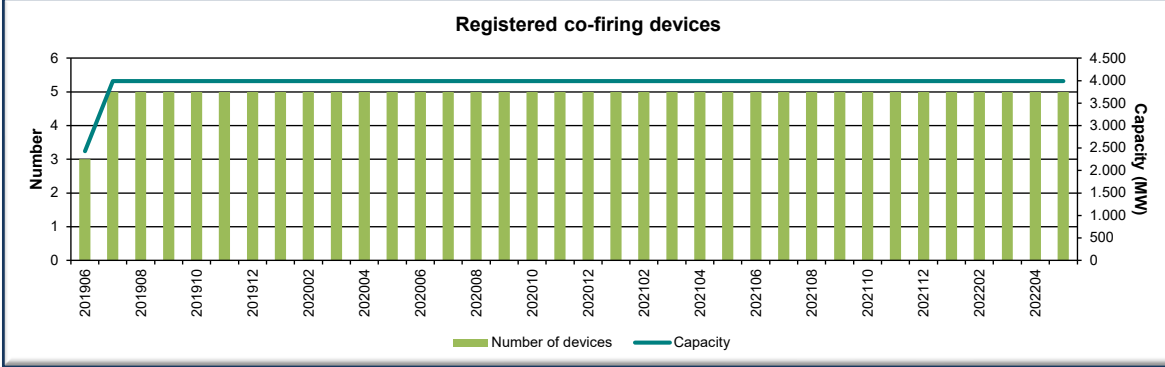


## Number and registered capacity of waste incineration devices

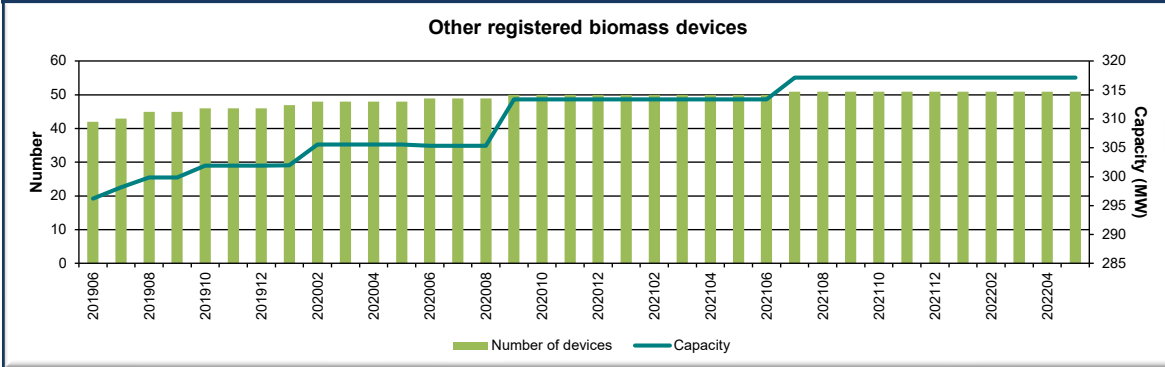


# Production devices electricity

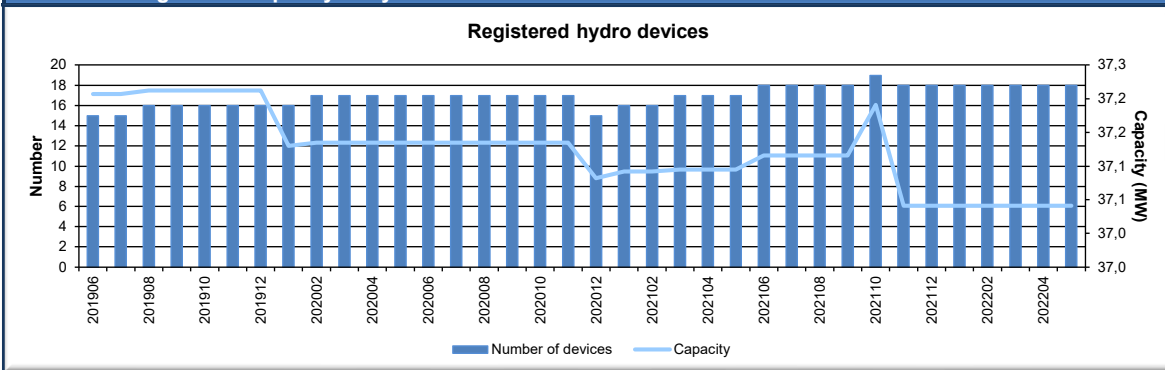
## Number and registered capacity of co-firing devices



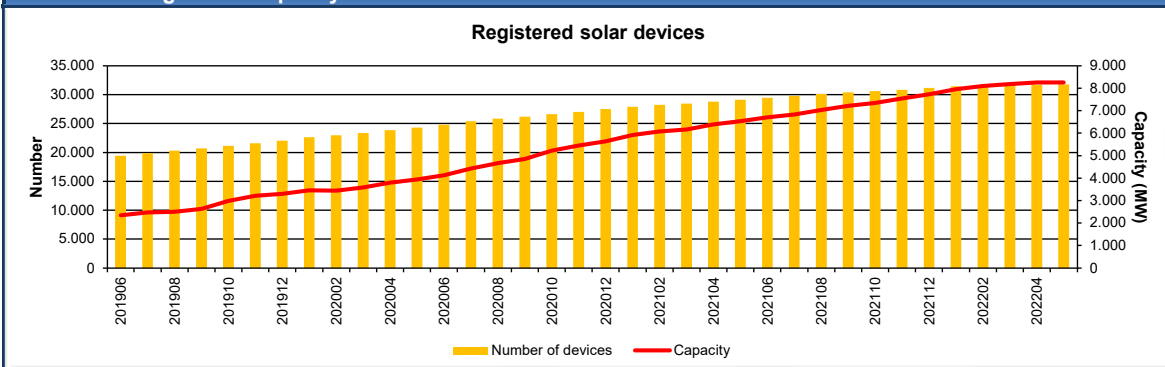
## Number and registered capacity of other biomass devices



## Number and registered capacity of hydro devices

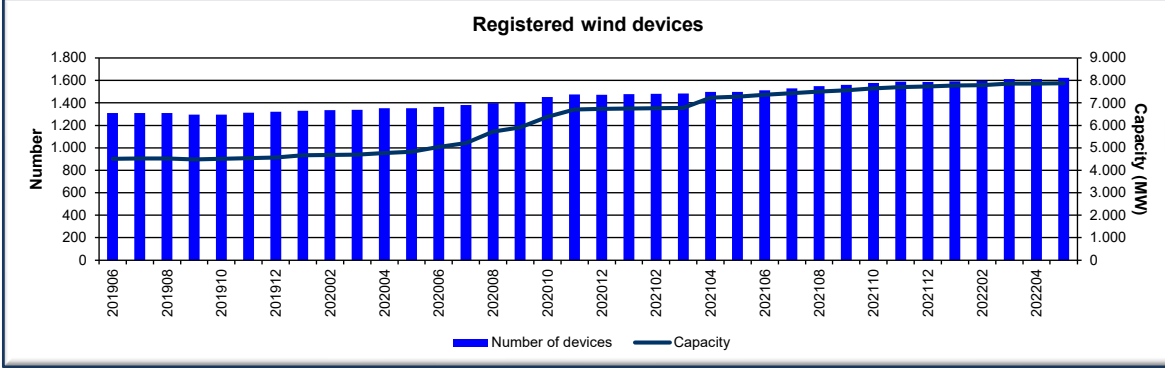


## Number and registered capacity of solar devices



# Production devices electricity

## Number and registered capacity of wind devices

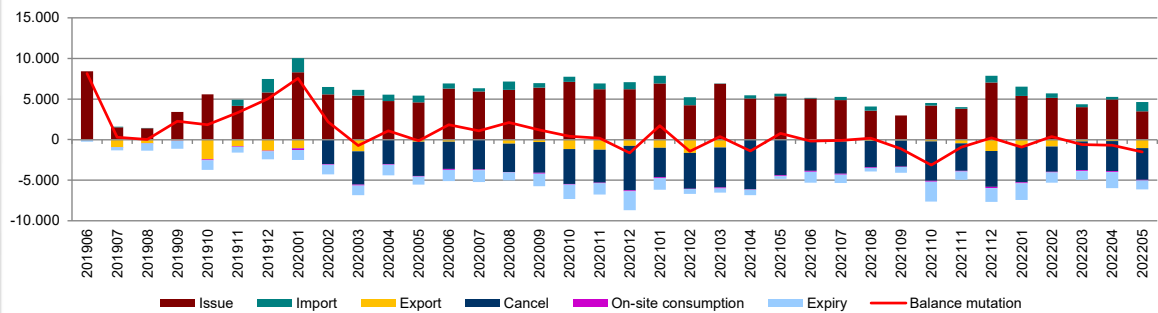


# Non-renewable electricity

## Certificates for non-renewable electricity

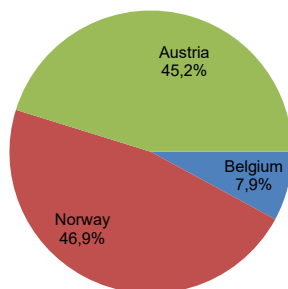
Certificate activity (in GWh)	May-2022	Last 12 months
<b>Issued certificates</b>	<b>3.498,4</b>	<b>54.475,4</b>
Of which:		
Natural gas	2.564,4	38.528,6
Municipal waste	88,0	1.208,9
Hard coal	562,3	8.668,7
Nuclear	102,5	3.385,8
Other	181,1	2.683,4
<b>Imported certificates</b>	<b>1.120,4</b>	<b>5.816,6</b>
<b>Increase of certificate balance</b>	<b>4.618,8</b>	<b>60.292,0</b>
<b>Exported certificates</b>	<b>1.054,0</b>	<b>5.800,2</b>
<b>Cancelled certificates</b>	<b>3.897,6</b>	<b>45.670,0</b>
<b>Certificates for on-site consumption (not tradable)</b>	<b>71,8</b>	<b>1.205,3</b>
<b>Expired certificates</b>	<b>1.114,2</b>	<b>16.123,7</b>
<b>Decrease of certificate balance</b>	<b>6.137,5</b>	<b>68.799,2</b>
<b>Increase of certificate balance</b>	<b>4.618,8</b>	<b>60.292,0</b>
<b>Decrease of certificate balance</b>	<b>6.137,5</b>	<b>68.799,2</b>
<b>Mutation in valid certificate balance</b>	<b>-1.518,8</b>	<b>-8.507,2</b>

Certificate activity (in GWh)



Exports of Dutch certificates for non-renewable electricity (in GWh)	May-2022	Last 12 months
<b>Total</b>	<b>1.054,0</b>	<b>5.800,2</b>
Belgium	0,0	459,1
Norway	1.054,0	2.719,5
Austria	0,0	2.621,6
Sweden	0,0	0,0

Destination countries of exports during the last 12 months



# Production devices

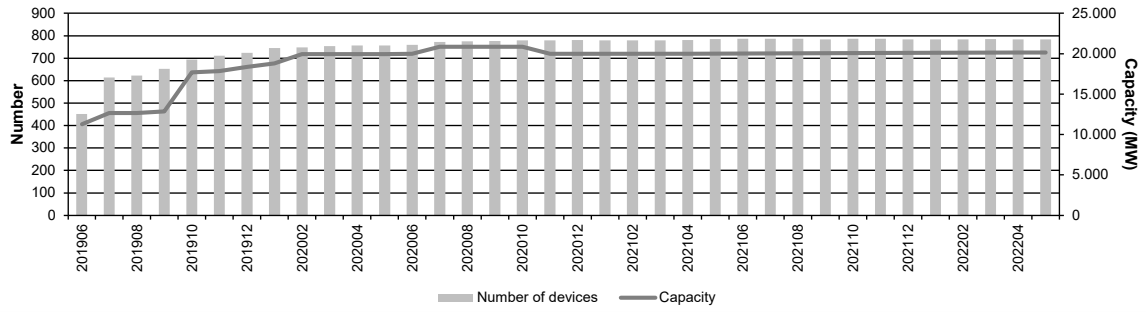
## Production devices with certification of non-renewable electricity

Per 01-06-2022

Number	Capacity (MW)
784	20.137,7

## Number and registered capacity of production devices with certification of non-renewable electricity

Devices registered for certification of non-renewable electricity





# Renewable heat

## Guarantees of Origin for heat

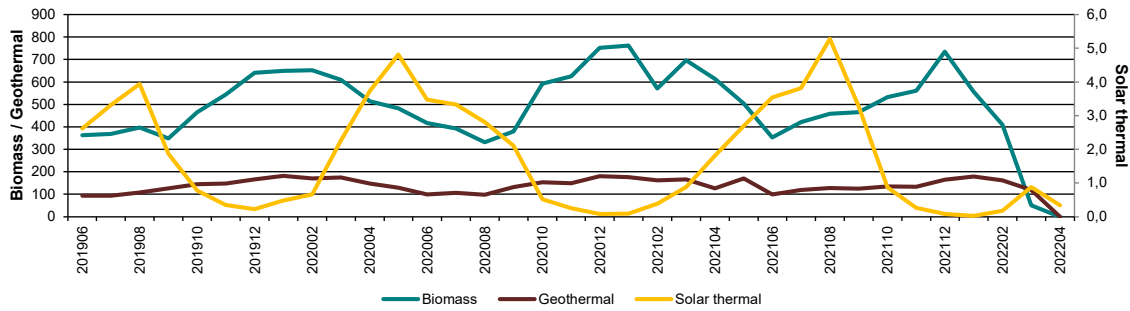
### Production of renewable heat in the Netherlands

(Based on issued Guarantees of Origin; in GWh)

Last 12 months

<b>Total</b>	<b>6.601,8</b>
<b>Biomass</b>	<b>5.045,9</b>
<b>Geothermal</b>	<b>1.534,7</b>
<b>Solar thermal</b>	<b>21,2</b>

Certified production of renewable heat in the Netherlands (in GWh)



CertiQ determines production volumes for renewable heat based on measurement reports which are approved by officially recognised metering companies, and submitted by the relevant producer. For smaller production devices ( $\leq 3$  MWth) such reports are submitted retrospectively in April of each year, whereas for larger devices such reports are submitted monthly. Therefore, for the current year the chart above always only shows the total of production volumes that CertiQ has collected and verified.

## Production devices for heat

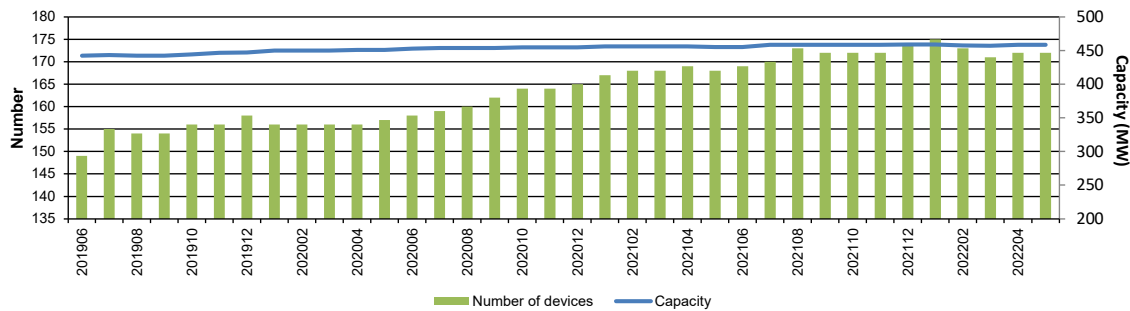
### Production devices for heat

As per 01-06-2022

	Number	Capacity (MW)
<b>Total</b>	<b>503</b>	<b>3.751,7</b>
<b>Biomass</b>	<b>431</b>	<b>3.165,6</b>
<i>Of which:</i>		
Fermentation devices	172	458,5
Co-firing devices	5	932,7
Other biomass	254	1.774,4
<b>Geothermie</b>	<b>24</b>	<b>533,5</b>
<b>Zon</b>	<b>48</b>	<b>52,7</b>

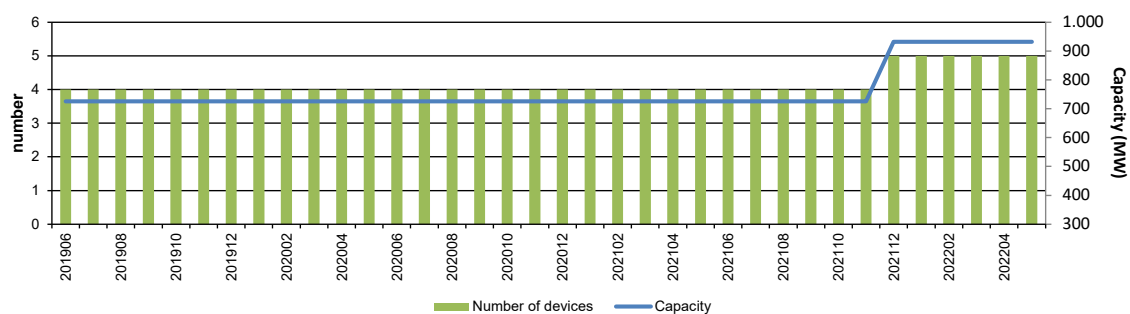
### Number and registered capacity of fermentation devices

Registered fermentation devices



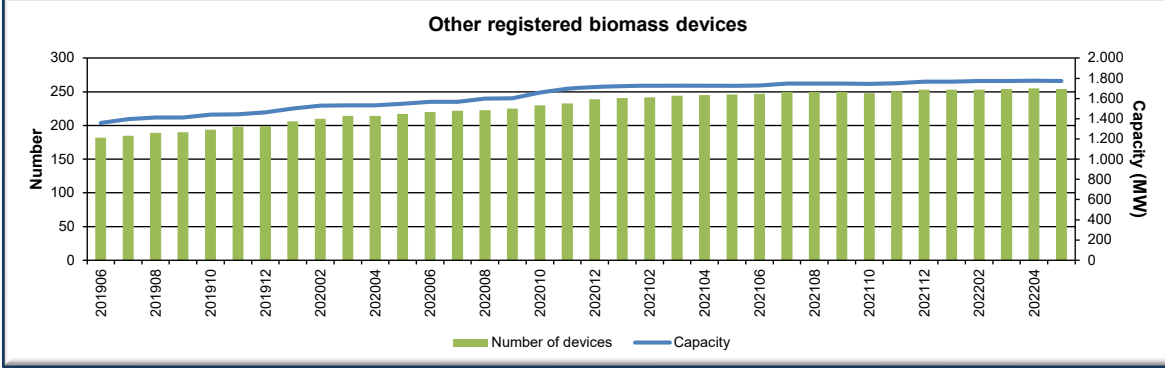
### Number and registered capacity of co-firing devices

Registered co-firing devices

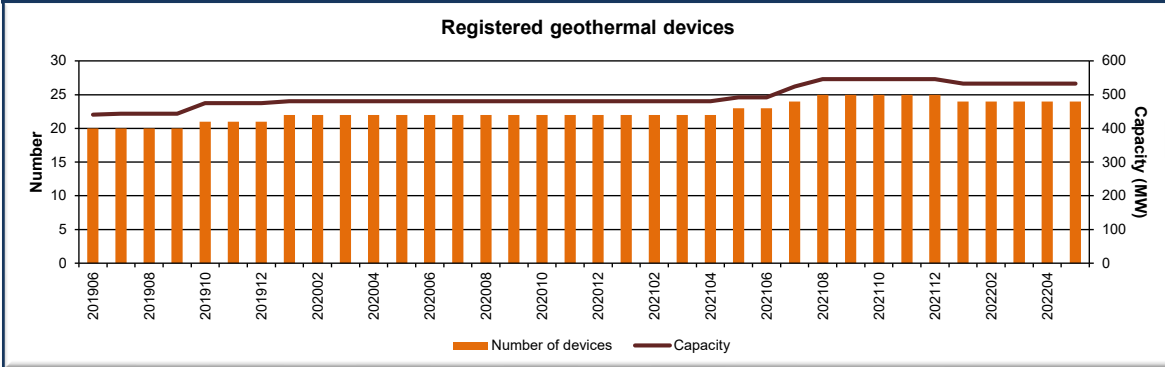


# Production devices for heat

## Number and registered capacity of other biomass devices



## Number of and registered capacity of geothermal devices



## Number of and registered capacity of solar thermal devices

