

# CertiQ statistics Mar 2022

## Renewable electricity

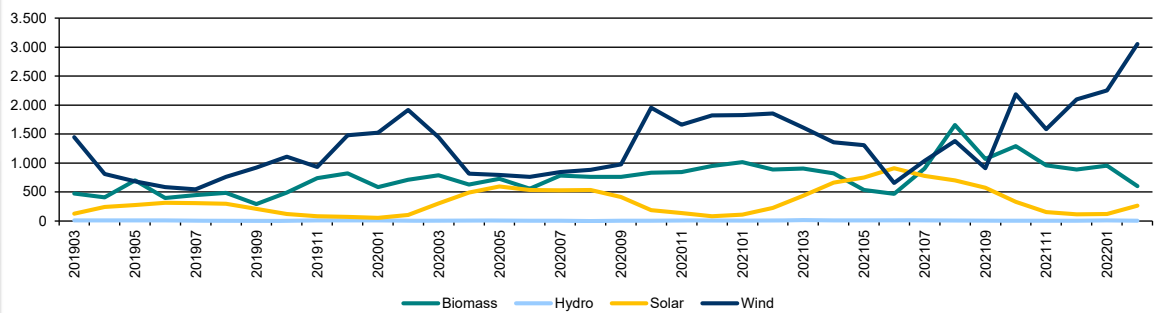
### Guarantees of Origin

#### Production of renewable electricity in the Netherlands

(Based on issued Guarantees of Origin; in GWh)

	Feb-2022	Last 12 months
<b>Total</b>	<b>3.925,6</b>	<b>36.350,1</b>
Biomass	602,2	11.052,2
Hydro	5,3	91,5
Solar	264,6	5.780,3
Wind	3.053,5	19.426,2

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

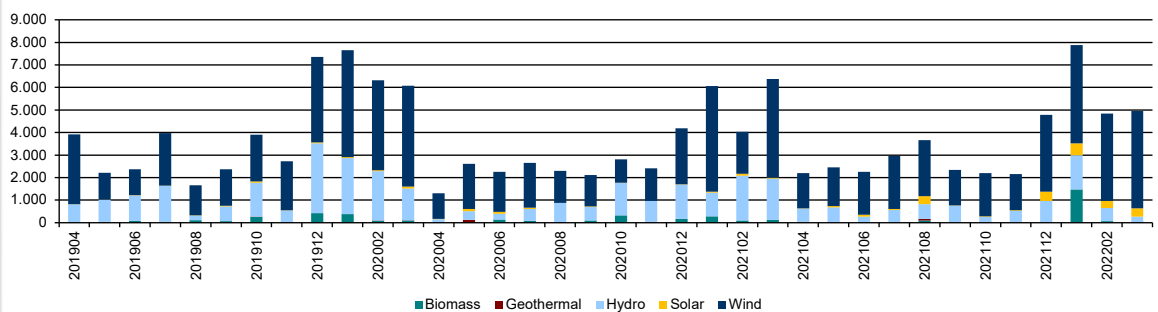


#### Imports of foreign Guarantees of Origin for renewable electricity

(In GWh)

	Mar-2022	Last 12 months
<b>Total</b>	<b>4.959,9</b>	<b>42.701,2</b>
Biomass	27,6	1.784,4
Geothermal	2,2	74,4
Hydro	237,3	7.513,2
Solar	361,3	2.204,6
Wind	4.331,7	31.124,6

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



#### Originating countries\* of imports

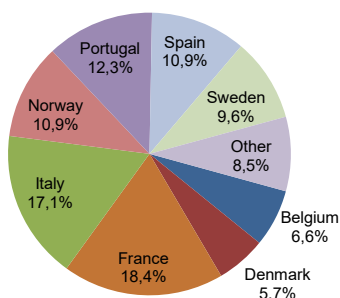
March 2022

	Biomass	Geothermal	Hydro	Solar	Wind	Total
<b>Total</b>	<b>27,6</b>	<b>2,2</b>	<b>237,3</b>	<b>361,3</b>	<b>4.331,7</b>	<b>4.959,9</b>
Belgium	0,0	0,0	0,0	0,1	155,9	156,0
Denmark	5,7	0,0	0,0	0,3	14,7	20,7
Germany	0,0	0,0	0,0	1,0	33,1	34,0
Estonia	0,0	0,0	4,6	0,0	2,9	7,5
Finland	18,5	0,0	0,0	0,0	154,3	172,8
France	2,4	0,0	44,8	41,2	1.583,3	1.671,7
Ireland	0,0	0,0	0,0	0,0	0,0	0,0
Iceland	0,0	2,2	0,0	0,0	2,1	4,3
Italy	0,0	0,0	56,1	188,6	517,5	762,2
Croatia	0,0	0,0	0,0	0,0	0,0	0,0
Latvia	0,0	0,0	0,0	0,0	15,9	15,9
Lithuania	0,0	0,0	0,0	0,0	0,0	0,0
Luxembourg	0,0	0,0	0,0	0,0	13,2	13,2
Norway	0,0	0,0	83,9	0,0	581,6	665,5
Austria	0,0	0,0	0,8	0,0	0,2	1,1
Portugal	0,9	0,0	47,1	0,0	279,2	327,2
Slovenia	0,0	0,0	0,0	0,0	0,0	0,0
Spain	0,0	0,0	0,0	127,2	437,2	564,4
Czech Republic	0,0	0,0	0,0	3,0	13,4	16,4
Sweden	0,0	0,0	0,0	0,0	527,2	527,2

\* 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

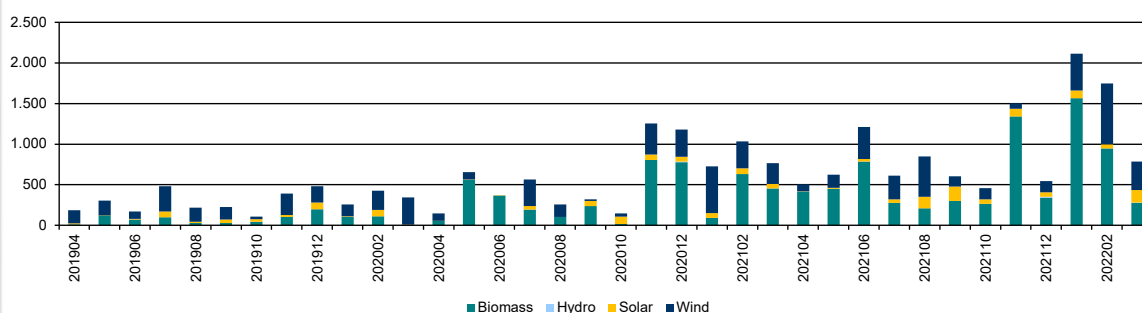


### Exports of Dutch Guarantees of Origin for renewable electricity

Mar-2022 Last 12 months

(In GWh)	Total	Mar-2022	Last 12 months
<b>Total</b>		<b>785,6</b>	<b>11.565,8</b>
Biomass		277,8	7.179,3
Hydro		3,5	17,6
Solar		154,3	907,3
Wind		350,0	3.461,7

### Export of renewable electricity (in GWh)

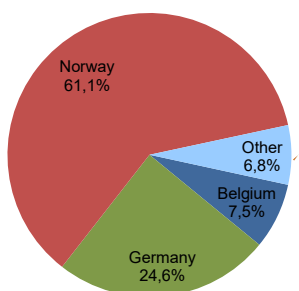


### Destination countries of exports

March 2022

(In GWh)	Total	Biomass	Hydro	Solar	Wind	Total
<b>Total</b>		<b>277,8</b>	<b>3,5</b>	<b>154,3</b>	<b>350,0</b>	<b>785,6</b>
Austria		0,0	0,0	0,0	0,0	0,0
Belgium		10,0	0,0	0,5	15,0	25,5
Denmark		0,0	0,0	0,0	0,0	0,0
Estonia		0,0	0,0	0,0	0,0	0,0
Germany		52,3	0,0	69,6	280,0	401,9
Finland		0,0	0,0	0,0	0,0	0,0
France		32,1	0,0	0,0	0,0	32,1
Italy		0,0	0,0	0,0	0,0	0,0
Luxembourg		0,0	0,0	0,0	0,0	0,0
Norway		183,4	3,5	84,2	55,0	326,1
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



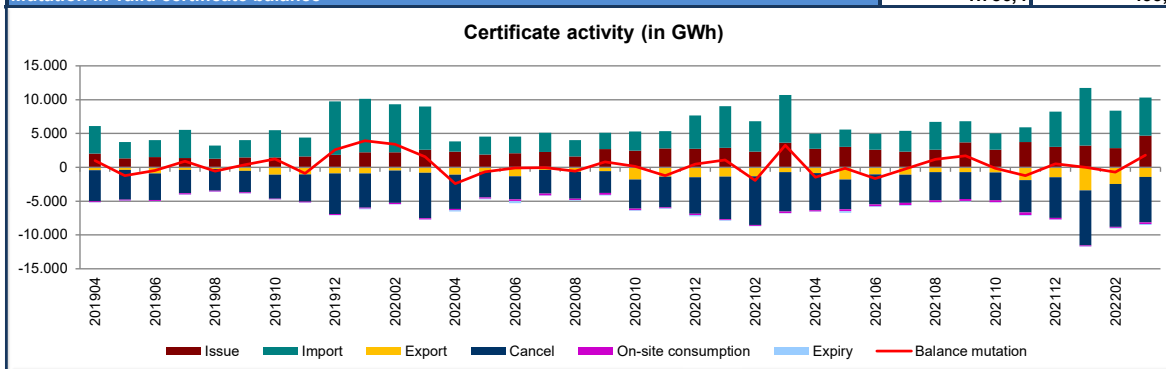
## Guarantees of Origin

Cancelled Guarantees of Origin for renewable electricity		Mar-2022	Last 12 months
(In GWh)	Total	6.712,7	62.750,3

Originating countries** of cancelled Guarantees of Origin for renewable electricity							
March 2022							
(In GWh)	Total	Biomass	Geothermal	Hydro	Solar	Wind	Total
	282,2	2,2	380,8	554,2	5.493,3	6.708,8	
Belgium	0,0	0,0	0,0	0,1	133,2	133,3	
Denmark	5,7	0,0	0,0	0,3	215,8	221,9	
Germany	0,0	0,0	0,0	0,0	3,6	3,6	
Estonia	0,0	0,0	4,6	0,0	1,0	5,5	
Finland	18,5	0,0	33,0	0,0	60,6	112,1	
France	2,4	0,0	8,1	38,0	965,3	1.013,8	
Ireland	0,0	0,0	0,0	0,0	0,0	0,0	
Iceland	0,0	2,2	0,0	0,0	0,0	2,2	
Italy	0,0	0,0	53,6	160,8	436,8	651,2	
Croatia	0,0	0,0	25,0	0,0	1,7	26,7	
Latvia	0,0	0,0	18,7	0,0	26,2	44,9	
Lithuania	0,0	0,0	0,1	0,0	0,0	0,1	
Luxembourg	0,0	0,0	0,0	0,0	37,7	37,7	
Netherlands	254,9	0,0	23,7	286,1	2.340,1	2.904,7	
Norway	0,0	0,0	141,3	0,0	145,1	286,4	
Austria	0,0	0,0	0,0	0,0	0,0	0,0	
Portugal	0,7	0,0	64,6	0,0	359,0	424,4	
Slovenia	0,0	0,0	0,1	0,0	0,0	0,1	
Spain	0,0	0,0	1,2	63,5	468,6	533,3	
Czech Republic	0,0	0,0	0,0	1,5	12,4	13,9	
Sweden	0,0	0,0	6,8	0,0	286,3	293,0	

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

Certificate activity (in GWh)	Mar-2022	Last 12 months
Issued certificates	4.666,5	37.084,2
Imported certificates	5.656,8	47.045,2
Increase of certificate balance	10.323,3	84.129,4
Exported certificates	1.444,7	17.689,5
Cancelled certificates	6.712,7	62.750,3
Certificates for on-site consumption (not tradable)	244,6	3.072,1
Expired certificates	134,9	1.050,6
Decrease of certificate balance	8.536,9	84.562,4
Increase of certificate balance	10.323,3	84.129,4
Decrease of certificate balance	8.536,9	84.562,4
Mutation in valid certificate balance	1.786,4	-433,0



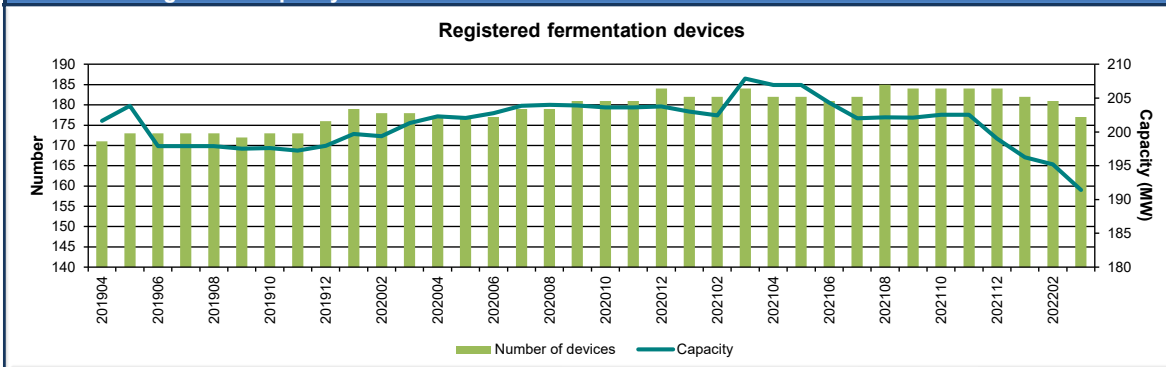
Certificate balance for guarantees of origin for renewable electricity***		Per 01/04/2022
(In GWh)	Total	22.746,6
	Biomass	4.482,4
	Geothermal	0,0
	Hydro	1.459,1
	Solar	2.259,9
	Wind	14.545,2

\*\*\* The numbers shown form a snapshot taken on the referenced date. In reality, the certificate balance is subject to constant change.

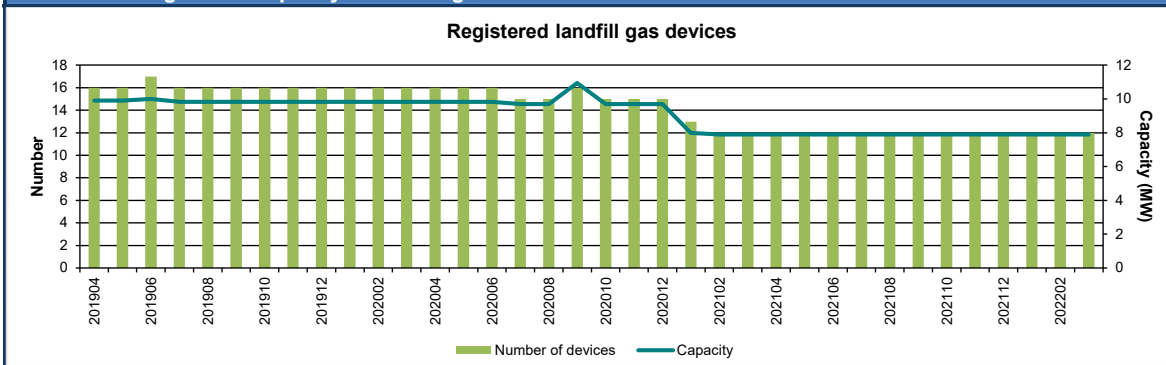
# Production devices electricity

Production devices		Per 01/04/2022	
		Number	Capacity (MW)
<b>Total</b>		<b>33.135</b>	<b>21.006,5</b>
<b>Biomass</b>		259	5.269,4
<i>Of which:</i>			
Fermentation devices		177	191,4
Landfill gas devices		12	7,9
Waste incineration devices		15	763,2
Co-firing devices		5	3.991,0
Other biomass		50	315,9
<b>Hydro</b>		18	37,0
<b>Solar</b>		31.266	7.943,5
<b>Wind</b>		1.592	7.756,6

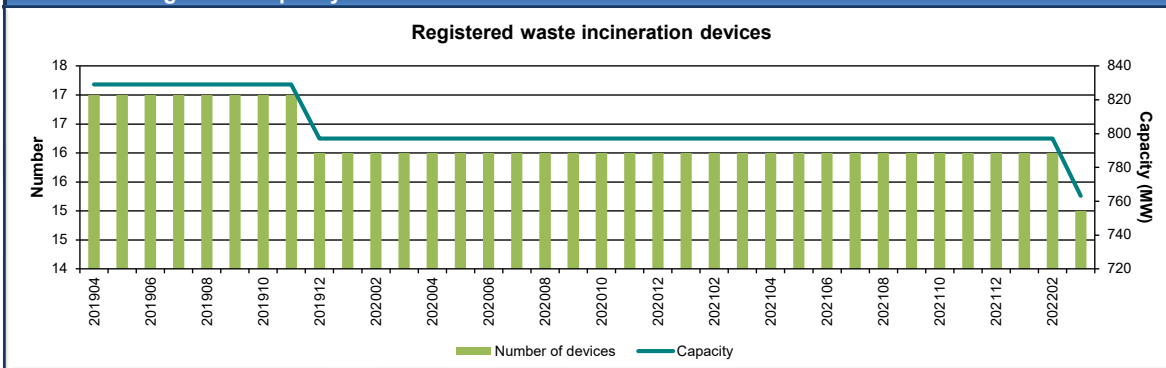
## Number and registered capacity of fermentation devices



## Number and registered capacity of landfill gas devices

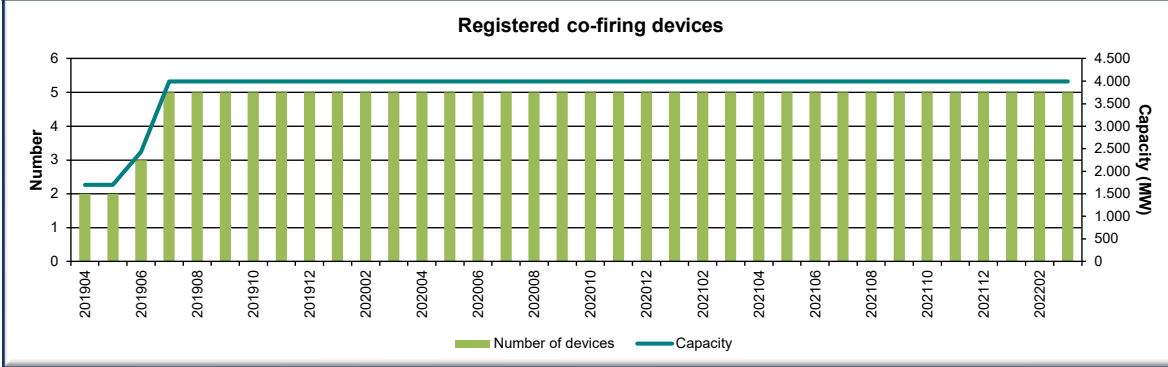


## Number and registered capacity of waste incineration devices

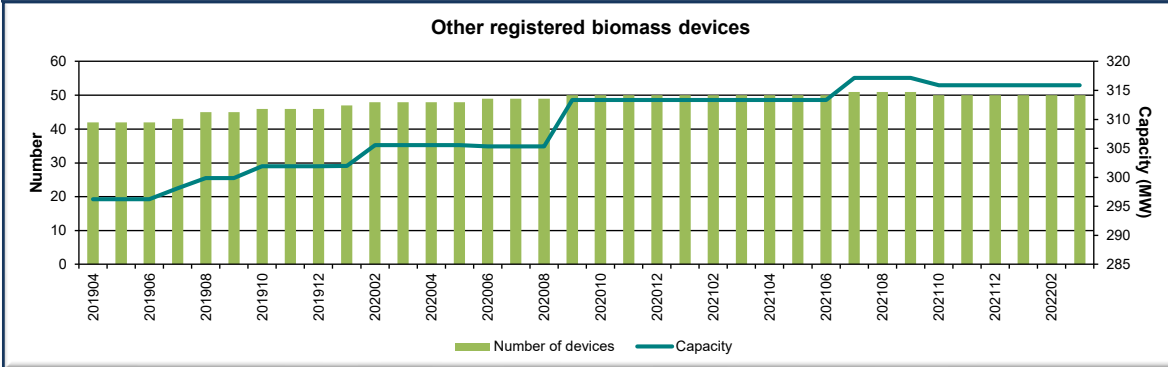


# Production devices electricity

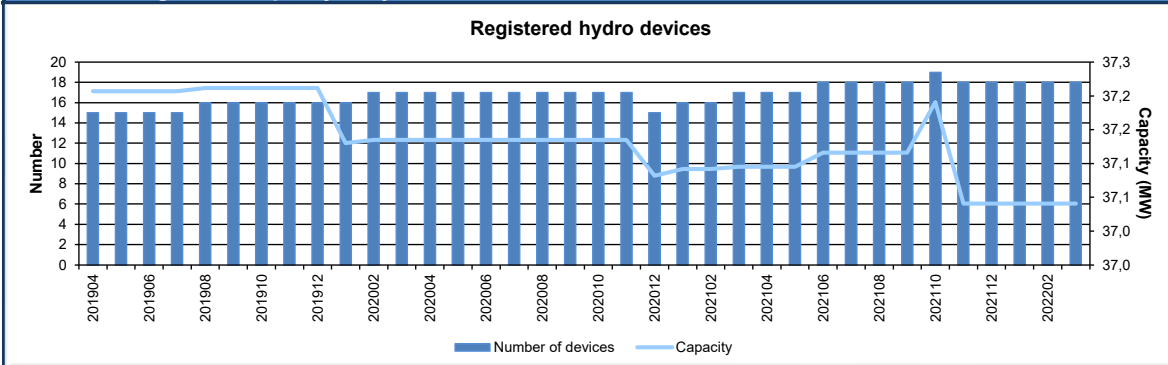
## Number and registered capacity of co-firing devices



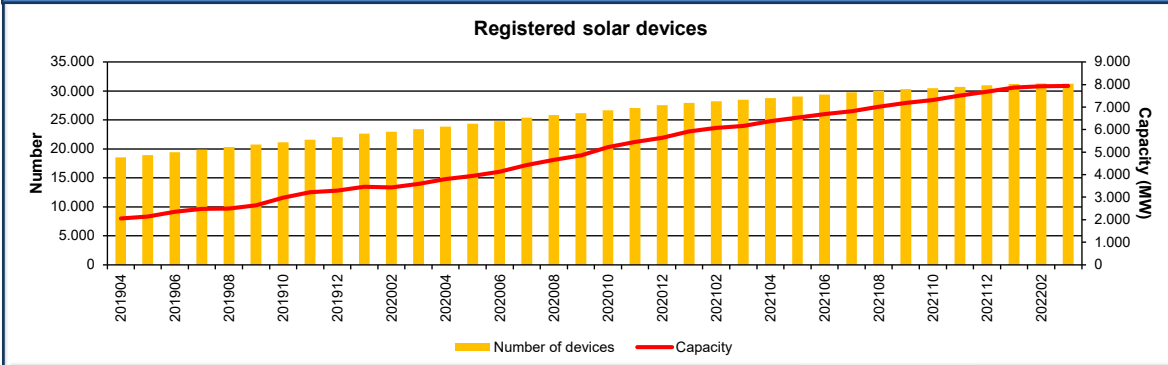
## Number and registered capacity of other biomass devices



## Number and registered capacity of hydro devices

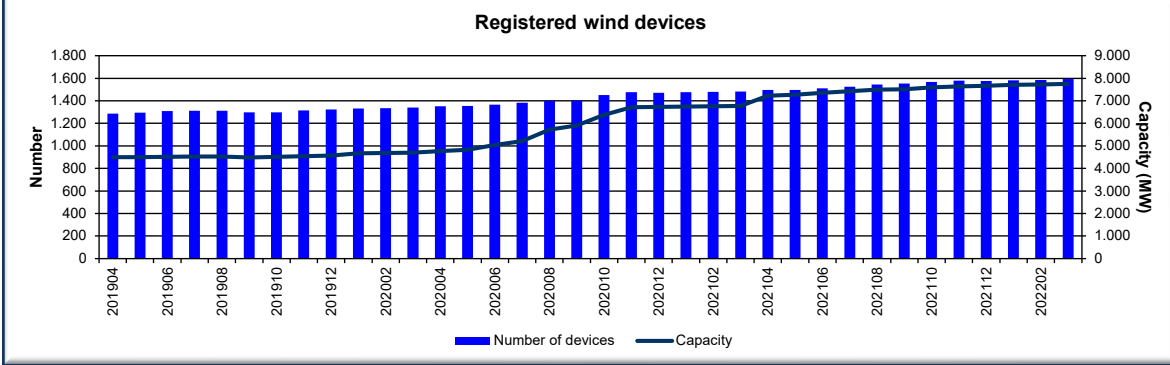


## Number and registered capacity of solar devices



# Production devices electricity

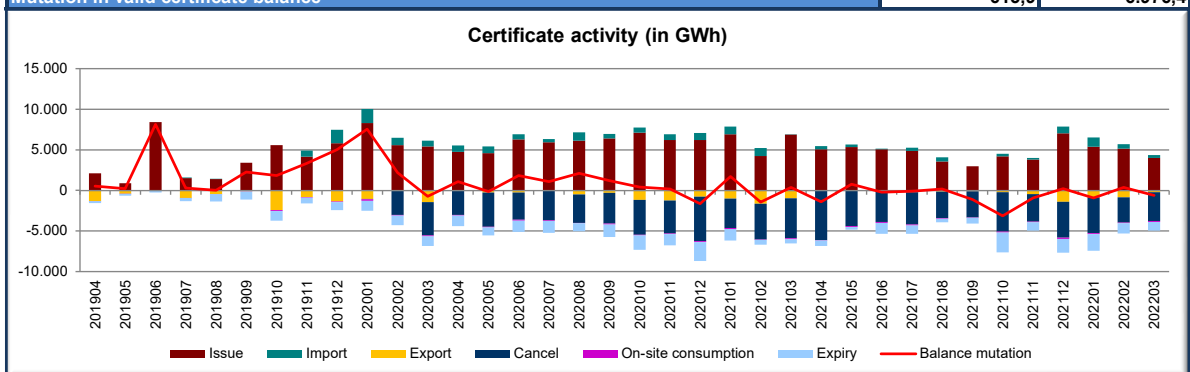
## Number and registered capacity of wind devices



# Non-renewable electricity

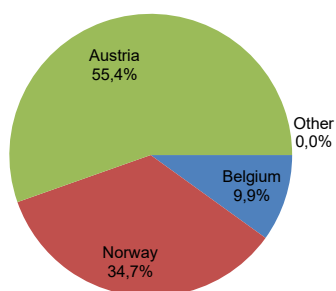
## Certificates for non-renewable electricity

Certificate activity (in GWh)	Mar-2022	Last 12 months
<b>Issued certificates</b>	<b>4.007,5</b>	<b>56.474,9</b>
Of which:		
Natural gas	2.595,0	40.318,4
Municipal waste	102,0	1.192,8
Hard coal	777,7	8.540,1
Nuclear	325,8	3.624,2
Other	207,0	2.799,3
<b>Imported certificates</b>	<b>334,7</b>	<b>5.006,9</b>
<b>Increase of certificate balance</b>	<b>4.342,2</b>	<b>61.481,8</b>
<b>Exported certificates</b>	<b>220,3</b>	<b>4.620,8</b>
<b>Cancelled certificates</b>	<b>3.553,0</b>	<b>48.613,4</b>
<b>Certificates for on-site consumption (not tradable)</b>	<b>118,9</b>	<b>1.162,8</b>
<b>Expired certificates</b>	<b>1.065,9</b>	<b>14.061,1</b>
<b>Decrease of certificate balance</b>	<b>4.958,1</b>	<b>68.458,1</b>
<b>Increase of certificate balance</b>	<b>4.342,2</b>	<b>61.481,8</b>
<b>Decrease of certificate balance</b>	<b>4.958,1</b>	<b>68.458,1</b>
<b>Mutation in valid certificate balance</b>	<b>-615,9</b>	<b>-6.976,4</b>



Exports of Dutch certificates for non-renewable electricity (in GWh)	Mar-2022	Last 12 months
<b>Total</b>	<b>220,3</b>	<b>4.619,7</b>
Belgium	0,0	459,1
Norway	73,1	1.601,5
Austria	147,2	2.559,1
Sweden	0,0	0,0

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



Certificate balance for certificates for non-renewable electricity *** (in GWh)	Per 01/04/2022
<b>Total</b>	<b>35.824,0</b>
Natural gas	26.275,5
Municipal waste	979,4
Hard coal	5.180,9
Fossil other	1.072,4
Nuclear	2.315,7

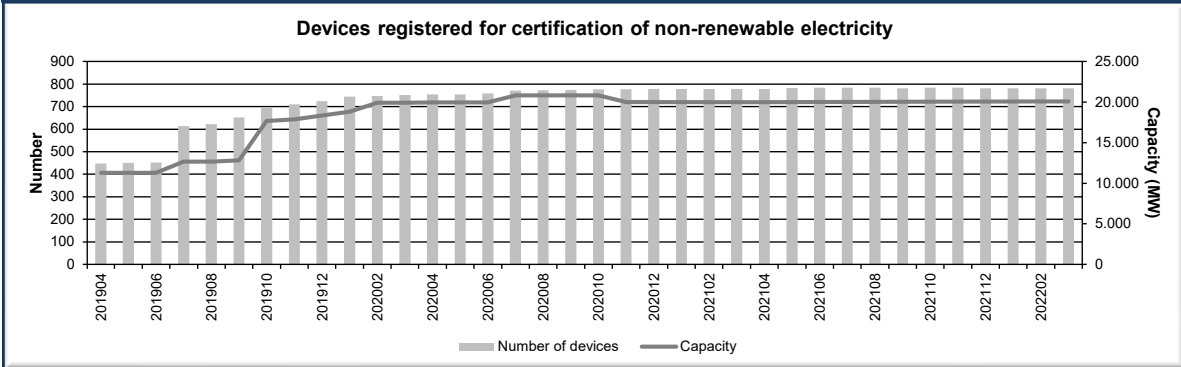
# Production devices

## Production devices with certification of non-renewable electricity

Per 01/04/2022

	Number	Capacity (MW)
	782	20.096,0

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





# Renewable heat

## Guarantees of Origin for heat

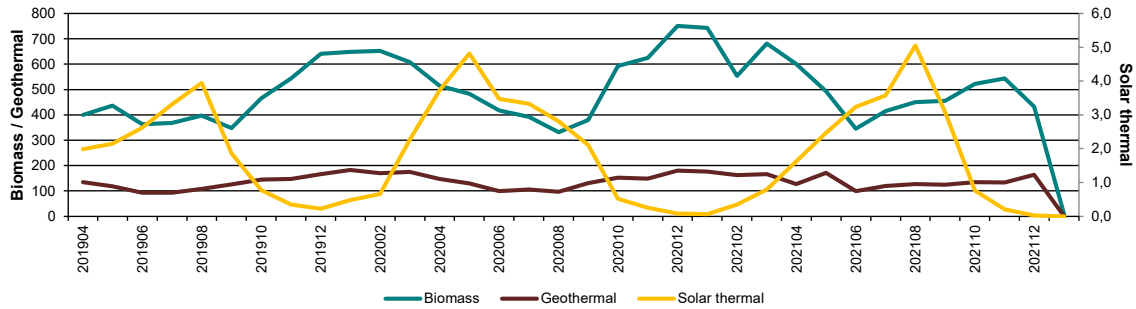
### Production of renewable heat in the Netherlands

Last 12 months

(Based on issued Guarantees of Origin; in GWh)

<b>Total</b>	<b>7.048,2</b>
<b>Biomass</b>	<b>5.499,3</b>
<b>Geothermal</b>	<b>1.527,7</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

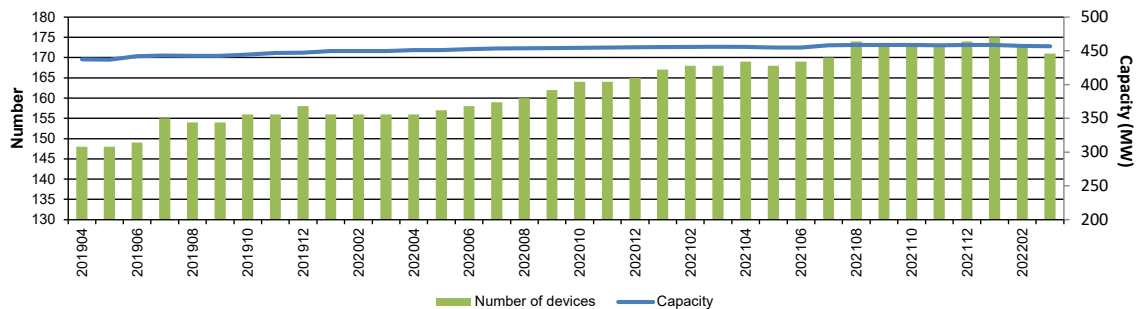
### Production devices for heat

As per 01/04/2022

	Number	Capacity (MW)
<b>Total</b>	<b>499</b>	<b>3.747,0</b>
<b>Biomass</b>	<b>427</b>	<b>3.160,9</b>
<i>Of which:</i>		
Fermentation devices	171	456,8
Co-firing devices	5	932,7
Other biomass	251	1.771,5
<b>Geothermie</b>	<b>24</b>	<b>533,5</b>
<b>Zon</b>	<b>48</b>	<b>52,6</b>

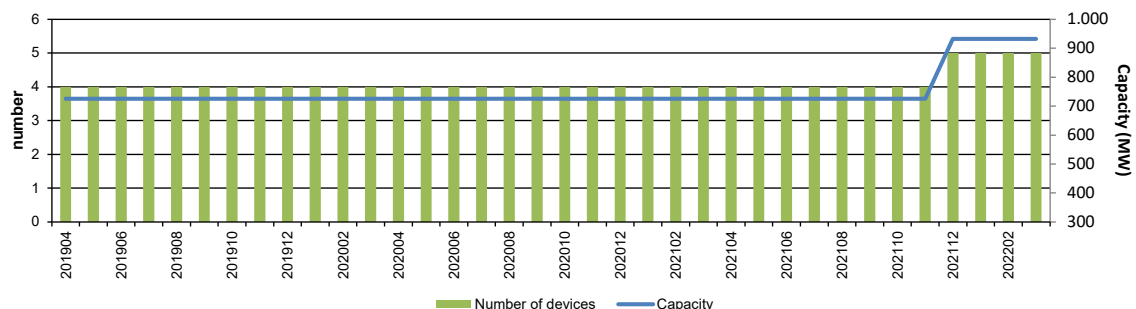
### Number and registered capacity of fermentation devices

#### Registered fermentation devices



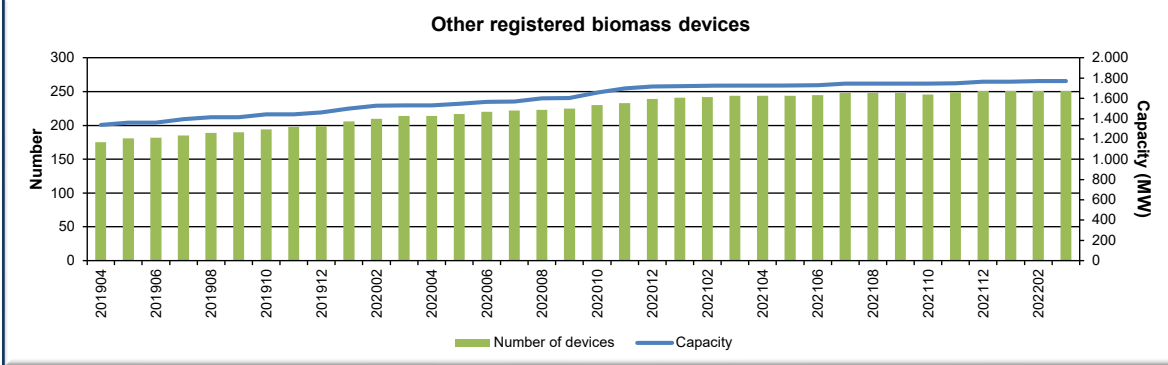
### Number and registered capacity of co-firing devices

#### Registered co-firing devices

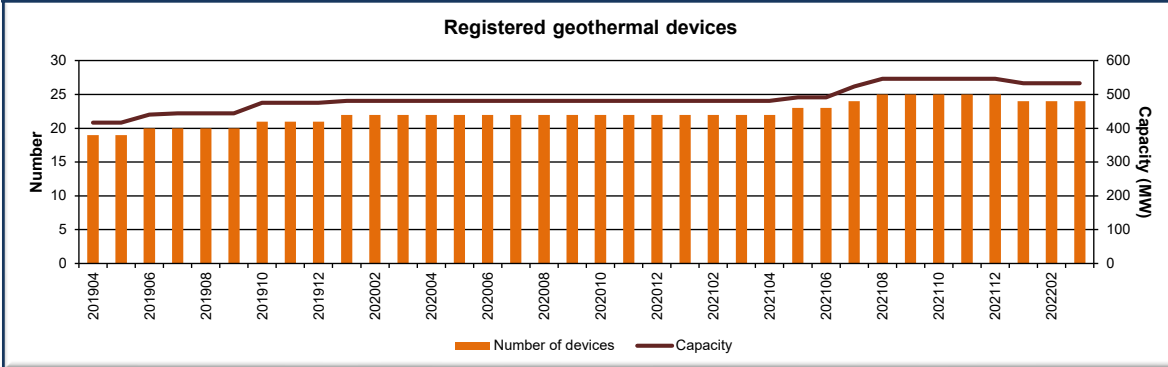


# Production devices for heat

## 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

