

# Errata Sheet for KH Neochem Report 2021

## Correction and Apology

We found that there were several errors in *KH Neochem Report 2021* issued in July 2021. The errors were caused by our mistakes in the process of aggregating data, and we will take all necessary steps to prevent any similar errors in the future.

We apologize for any confusion this might have caused, and our corrections are shown on this errata sheet.

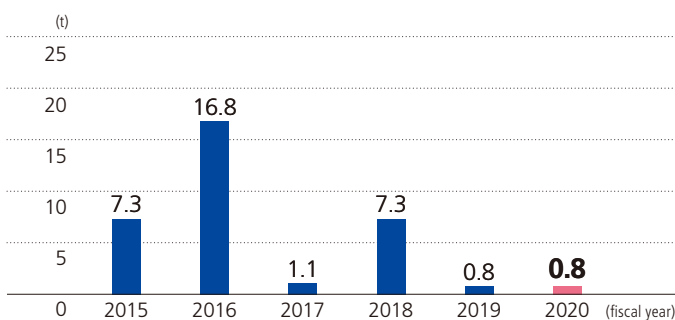
<b>Correction Target 1</b>	Page 17, Financial and Non-Financial Highlights, Disposed of as landfill (Graph)
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**[Now reads:]**

Units on the vertical axis in the graph (t): 0, 5, 10, 15, 20, 25

- 2015, 7.3t
- 2016, 16.8t
- 2017, 1.1t
- 2018, 7.3t
- 2019, 0.8t
- 2020, 0.8t

**Disposed of as landfill**



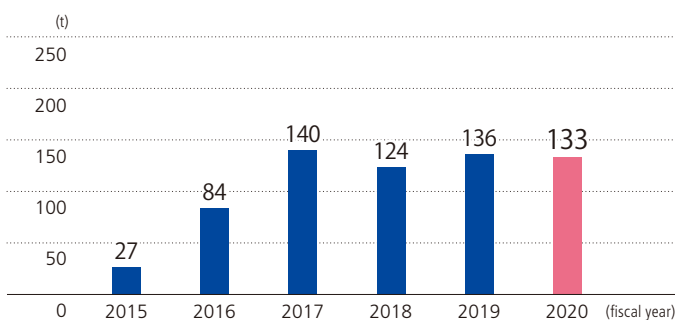
\*April 1 to March 31, each year

**[Should read:]**

Units on the vertical axis in the graph (t): 0, 50, 100, 150, 200, 250

- 2015, 27t
- 2016, 84t
- 2017, 140t
- 2018, 124t
- 2019, 136t
- 2020, 133t

**Disposed of as landfill**



\*April 1 to March 31, each year

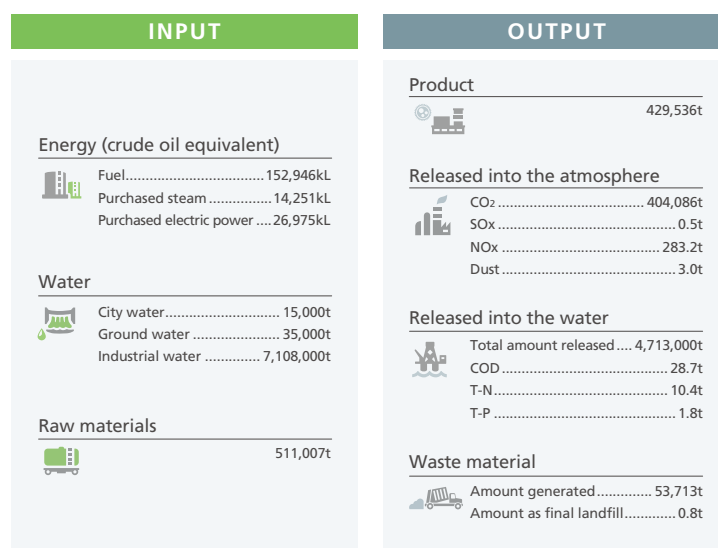
[Now reads:]

**INPUT**  
 Water:  
 City water ..... 15,000t  
 Ground water ..... 35,000t  
 Industrial water ..... 7,108,000t

**OUTPUT**  
 Released into the atmosphere:  
 NOx ..... 283.2t  
 Dust ..... 3.0t

Released into the water:  
 Total amount released ..... 4,713,000t

Waste material:  
 Amount generated ..... 53,713t  
 Amount as final landfill ..... 0.8t



Scope of aggregation: Yokkaichi Plant and Chiba Plant  
 Period covered: April 1, 2020 to March 31, 2021

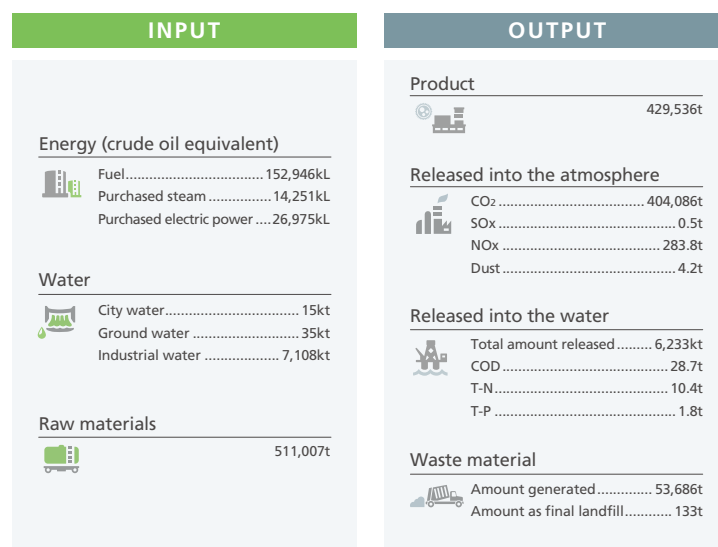
[Should read:]

**INPUT**  
 Water:  
 City water ..... 15kt  
 Ground water ..... 35kt  
 Industrial water ..... 7,108kt

**OUTPUT**  
 Released into the atmosphere:  
 NOx ..... 283.8t  
 Dust ..... 4.2t

Released into the water:  
 Total amount released ..... 6,233kt

Waste material:  
 Amount generated ..... 53,686t  
 Amount as final landfill ..... 133t



Scope of aggregation: Yokkaichi Plant and Chiba Plant  
 Period covered: April 1, 2020 to March 31, 2021

[Now reads:]

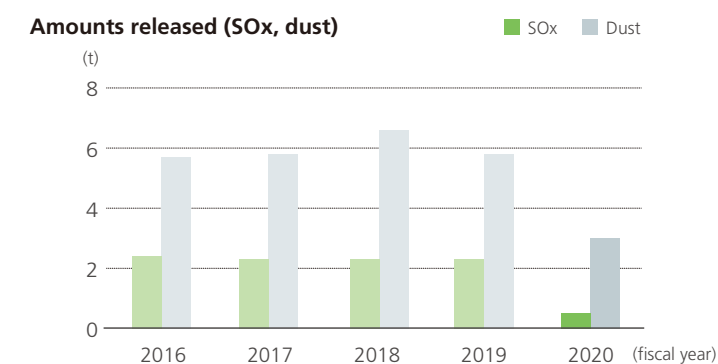
Period covered: January 1, 2020 to December 31, 2021

[Should read:]

Period covered: January 1, 2020 to December 31, 2020

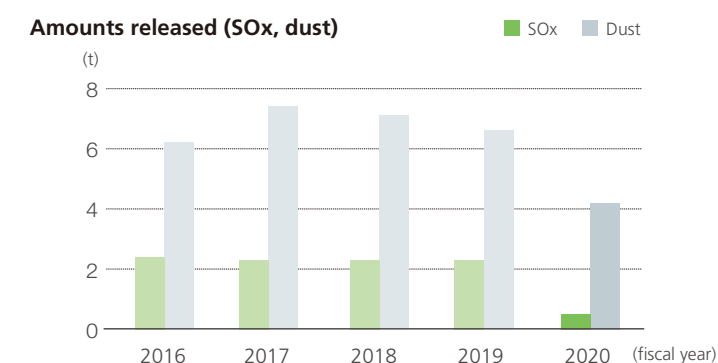
[Now reads:]

2016, 5.7t  
 2017, 5.8t  
 2018, 6.6t  
 2019, 5.8t  
 2020, 3.0t



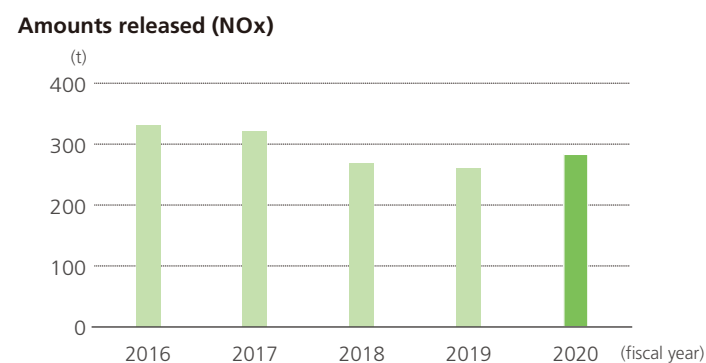
[Should read:]

2016, 6.2t  
 2017, 7.4t  
 2018, 7.1t  
 2019, 6.6t  
 2020, 4.2t



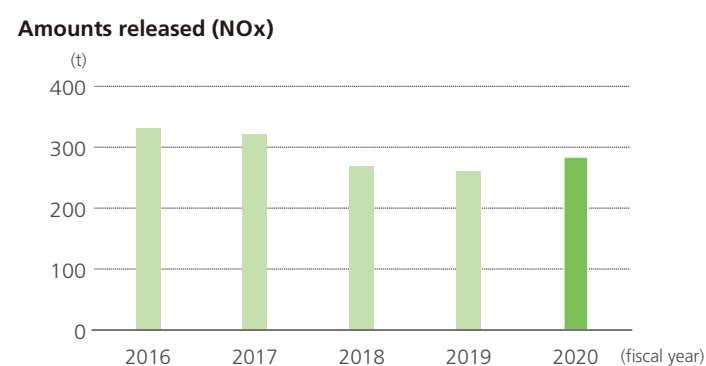
[Now reads:]

2020, 283.2t



[Should read:]

2020, 283.8t



[Now reads:]

Yokkaichi Plant, NOx,  
Maximum value, 28.7 kg/h

Levels agreed upon with local communities and annual maximum values

	SOx		NOx		Dust <sup>*1</sup>	
	Agreement level	Maximum value	Agreement level	Maximum value	Agreement level	Maximum value
Yokkaichi Plant	1.0 Nm <sup>3</sup> /h	0.0 Nm <sup>3</sup> /h	53.3 kg/h	28.7 kg/h	0.025 g/Nm <sup>3</sup>	0.002 g/Nm <sup>3</sup>
Chiba Plant	9.0 Nm <sup>3</sup> /h	0.1 Nm <sup>3</sup> /h	12.0 Nm <sup>3</sup> /h	2.3 Nm <sup>3</sup> /h	4.5 kg/h	0.5 kg/h

\*1 Dust: At the Yokkaichi Plant, density controls are set per item of equipment. Here, the generator boiler figure is shown as a typical example.

[Should read:]

Yokkaichi Plant, NOx,  
Maximum value, 45.5 kg/h

Levels agreed upon with local communities and annual maximum values

	SOx		NOx		Dust <sup>*1</sup>	
	Agreement level	Maximum value	Agreement level	Maximum value	Agreement level	Maximum value
Yokkaichi Plant	1.0 Nm <sup>3</sup> /h	0.0 Nm <sup>3</sup> /h	53.3 kg/h	45.5 kg/h	0.025 g/Nm <sup>3</sup>	0.002 g/Nm <sup>3</sup>
Chiba Plant	9.0 Nm <sup>3</sup> /h	0.1 Nm <sup>3</sup> /h	12.0 Nm <sup>3</sup> /h	2.3 Nm <sup>3</sup> /h	4.5 kg/h	0.5 kg/h

\*1 Dust: At the Yokkaichi Plant, density controls are set per item of equipment. Here, the generator boiler figure is shown as a typical example.

[Now reads:]

Units on the vertical axis in the graph (1,000t):

0, 2,000, 4,000, 6,000

Numerical data:

2016, 3,617,000t

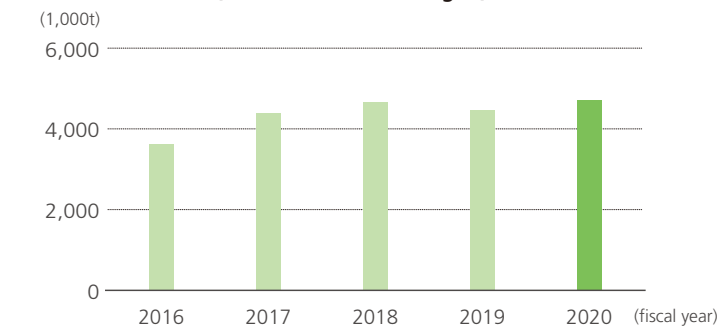
2017, 4,395,000t

2018, 4,673,000t

2019, 4,468,000t

2020, 4,713,000t

Amount released (total effluent discharged)



[Should read:]

Units on the vertical axis in the graph (kt):

0, 2,000, 4,000, 6,000, 8,000

Numerical data:

2016, 5,369kt

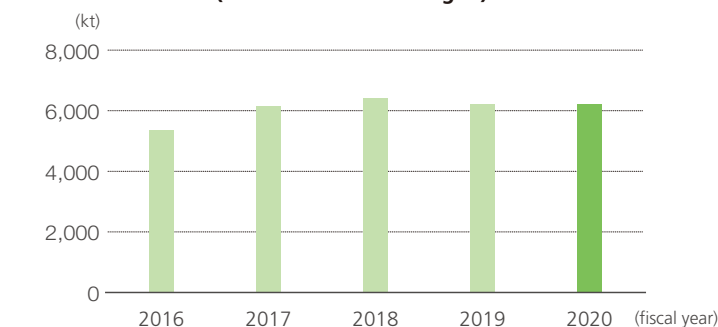
2017, 6,147kt

2018, 6,425kt

2019, 6,220kt

2020, 6,233kt

Amount released (total effluent discharged)



**Correction Target 8**

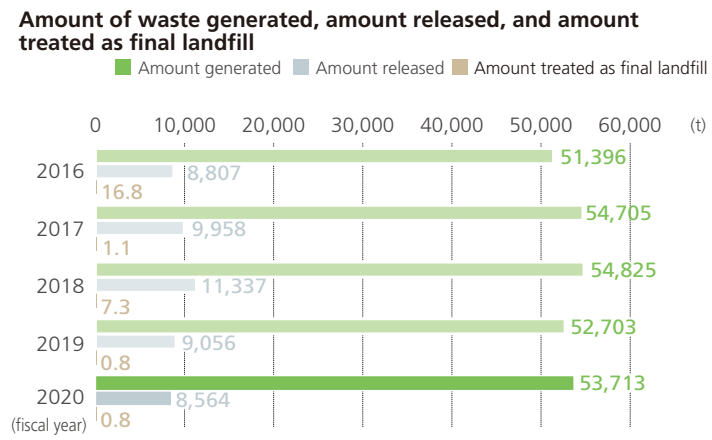
Page 50, Responsible Care, Reduction of Amount Released into the Environment, Waste material, Amount of waste generated, amount released, and amount treated as final landfill

**[Now reads:]**

Amount generated:  
2019, 52,703t  
2020, 53,713t

Amount released:  
2019, 9,056t  
2020, 8,564t

Amount treated as final landfill:  
2016, 16.8t  
2017, 1.1t  
2018, 7.3t  
2019, 0.8t  
2020, 0.8t

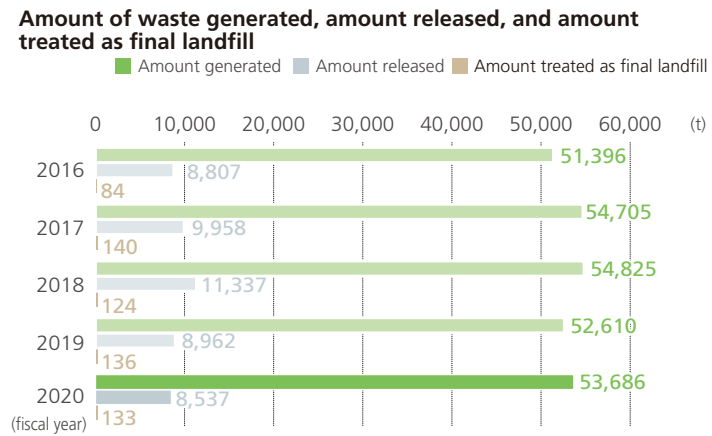


**[Should read:]**

Amount generated:  
2019, 52,610t  
2020, 53,686t

Amount released:  
2019, 8,962t  
2020, 8,537t

Amount treated as final landfill:  
2016, 84t  
2017, 140t  
2018, 124t  
2019, 136t  
2020, 133t



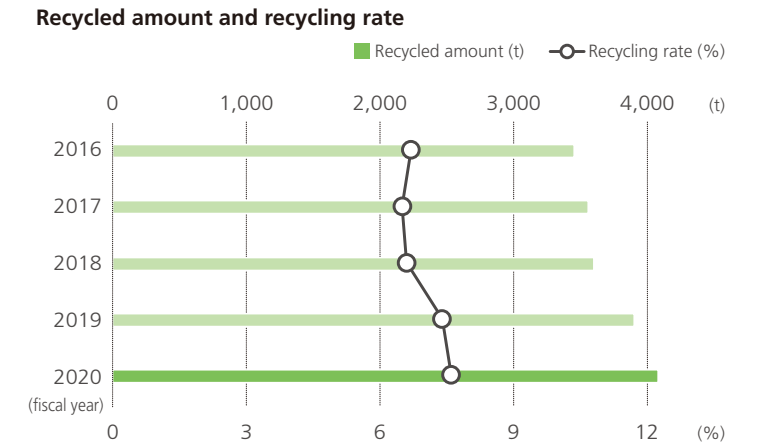
**Correction Target 9**

Page 50, Responsible Care, Reduction of Amount Released into the Environment, Waste material, Recycled amount and recycling rate

**[Now reads:]**

Recycled amount (t):  
2016, 3,452t  
2017, 3,557t  
2018, 3,559t  
2019, 3,901t  
2020, 4,080t

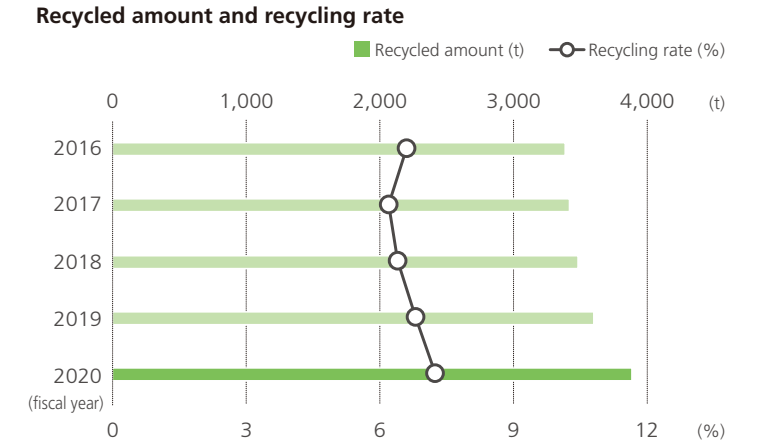
Recycling rate (%):  
2016, 6.7%  
2017, 6.5%  
2018, 6.6%  
2019, 7.4%  
2020, 7.6%



**[Should read:]**

Recycled amount (t):  
2016, 3,386t  
2017, 3,418t  
2018, 3,482t  
2019, 3,600t  
2020, 3,885t

Recycling rate (%):  
2016, 6.6%  
2017, 6.2%  
2018, 6.4%  
2019, 6.8%  
2020, 7.2%



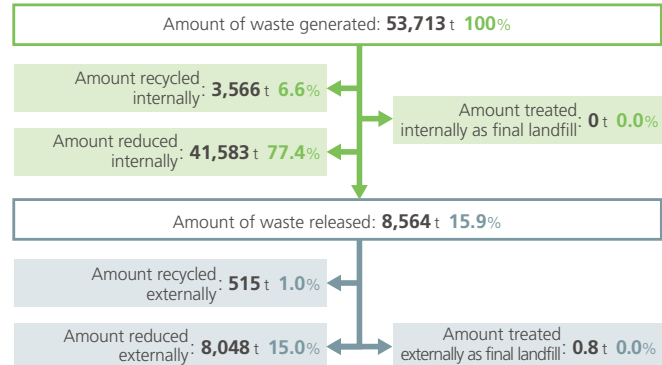
**Correction Target 10**

Page 51, Responsible Care, Reduction of Amount Released into the Environment, Waste material, Waste material treatment flow

**[Now reads:]**

Amount of waste generated: 53,713t  
 Amount reduced internally: 77.4%  
 Amount of waste released: 8,564t, 15.9%  
 Amount recycled externally: 515t, 1.0%  
 Amount reduced externally: 8,048t, 15.0%  
 Amount treated externally as final landfill: 0.8t, 0.0%

**Waste material treatment flow**



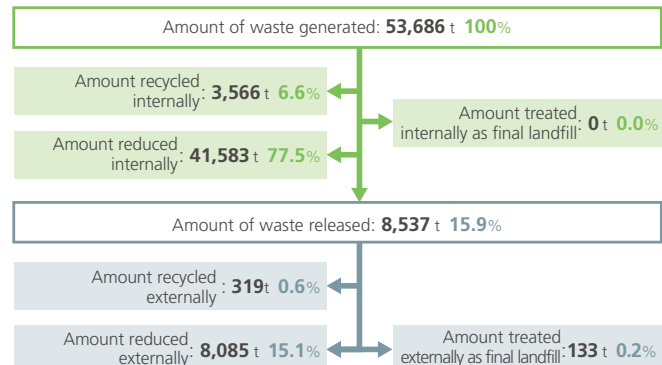
\*Some totals may not tally due to rounding

Scope of aggregation: Yokkaichi Plant and Chiba Plant  
 Period covered: April 1, 2020 to March 31, 2021

**[Should read:]**

Amount of waste generated: 53,686t  
 Amount reduced internally: 77.5%  
 Amount of waste released: 8,537t, 15.9%  
 Amount recycled externally: 319t, 0.6%  
 Amount reduced externally: 8,085t, 15.1%  
 Amount treated externally as final landfill: 133t, 0.2%

**Waste material treatment flow**



\*Some totals may not tally due to rounding

Scope of aggregation: Yokkaichi Plant and Chiba Plant  
 Period covered: April 1, 2020 to March 31, 2021

**Correction Target 11**

Page 52, Responsible Care, Occupational Safety and Health, Status of Work-related Accidents, note of Severity rate

**[Now reads:]**

\*Three work-related accidents graphs are based on the scope of aggregation and period covered shown below.

Scope of aggregation: All KH Neochem operating facilities

Period covered: January 1, 2020 to December 31, 2021

**[Should read:]**

\*Three work-related accidents graphs are based on the scope of aggregation and period covered shown below.

Scope of aggregation: All KH Neochem operating facilities for the number of work-related accidents; Yokkaichi Plant and Chiba Plant for the frequency rate (accidents resulting in lost workdays) and the severity rate.

Period covered: January 1 to December 31, 2020