# 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.

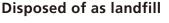
Correction Target 1	Page 17, Financial and Non-Financial Highlights, Disposed of as landfill (Graph)
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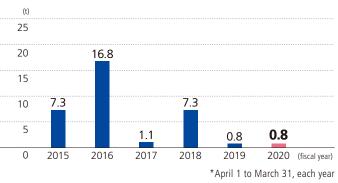
## [Now reads:]

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





## [Should read:]

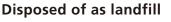
Units on the vertical axis in the graph (t): 0, 50, 100, 150, 200, 250

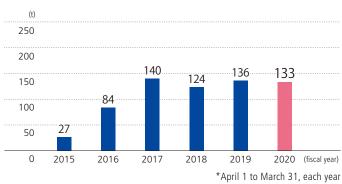
2015, 27t

- 2016, 84t 2017, 140t
- 2018, 124t

2019, 136t

2020, 133t





Page 48, Responsible Care, Flow of Environmental Impact Results, INPUT, OUTPUT

[Now reads:]		
INPUT	INPUT	OUTPUT
Water: City water ······ 15,000t Ground water ····· ·35,000t Industrial water ····· 7,108,000t	Energy (crude oil equivalent) Fuel	Product         429,536t           Released into the atmosphere         0.5t
OUTPUT Released into the atmosphere: NOx ······ 283.2t Dust ····· 3.0t Released into the water: Total amount released ····· 4,713,000t	Water         Image: Straight of the	NOx         283.2t           Dust         3.0t           Released into the water         COD           COD         28.7t           T-N         10.4t           T-P         1.8t           Waste material         Amount generated           Mount generated         53,713t           Amount as final landfill         0.8t
Waste material: Amount generated ·······53,713t		of aggregation: Yokkaichi Plant and Chiba Plant 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 Page 50, Responsible Care, Reduction of Amount Released into the **Correction Target 4** [Now reads:] – 2016, 5.7t Amounts released (SOx, dust) (t) 2017, 5.8t 8 2018, 6.6t 2019, 5.8t 6 2020, 3.0t 2017 2018 2016 [Should read:] -2016, 6.2t st) 2017, 7.4t 2018, 7.1t 2019, 6.6t 2020, 4.2t

**Correction Target 3** 

[Should read:]

Amount as final landfill ·······0.8t

INPUT	INPUT	OUTPUT
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	Energy (crude oil equivalent)         Image: Strain Strai	Product         429,5361           Product         429,5361           Product         0           Product         0
Waste material: Amount generated ······ 53,686t		of aggregation: Yokkaichi Plant and Chiba Plant covered: April 1, 2020 to March 31, 2021

<b>Amounts</b> (t) 8	rele	eas	ed (S	50×	κ, d	ust
6						
4						
2						
0	20	16		20	17	

## Page 48, Responsible Care, Environmental Accounting, Period covered

# Environment, Air pollutants, Amounts released (SOx, dust)



Correction <sup>-</sup>	Target 5
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Page 50, Responsible Care, Reduction of Amount Released into the Environment, Air pollutants, Amounts released (NOx)



**Correction Target 6** 

Page 50, Responsible Care, Reduction of Amount Released into the Environment, Air pollutants, Levels agreed upon with local communities and annual maximum values

### [Now reads:]

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

Levels agreed upon with local communities and annual maximum values							
	SOx		SOx NOx		Dust <sup>*1</sup>		
	Agreement	Maximum	Agreement	Maximum	Agreement	Maximum	
	level	value	level	value	level	value	
Yokkaichi	1.0	0.0	53.3	28.7	0.025	0.002	
Plant	Nm³/h	Nm³/h	kg/h	kg/h	g/Nm³	g/Nm³	
Chiba Plant	9.0	0.1	12.0	2.3	4.5	0.5	
	Nm³/h	Nm³/h	Nm³/h	Nm³/h	kg/h	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 annu	al maximum values
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	SOx		SOx NOx		Dust <sup>*1</sup>	
	Agreement level	Maximum value	Agreement level	Maximum value	Agreement level	Maximum value
Yokkaichi Plant	1.0 Nm³/h	0.0 Nm³/h	53.3 kg/h	45.5 kg/h	0.025 g/Nm³	0.002 g/Nm³
Chiba Plant	9.0 Nm³/h	0.1 Nm³/h	12.0 Nm³/h	2.3 Nm³/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.

	Page 50,
Correction Target 7	

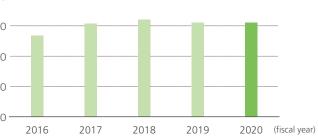
(total effluent discharged)

[Now reads:]	
Units on the vertical axis in t	he graph (1,000t):
0, 2,000, 4,000, 6,000	
Numerical data:	Amount released (to
2016, 3,617,000t	6,000
2017, 4,395,000t	
2018, 4,673,000t	4,000
2019, 4,468,000t	
2020, 4,713,000t	2,000
	0

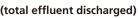
## [Should read:]

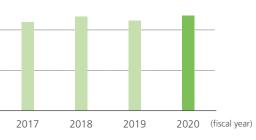
Units on the vertical axis in the graph (kt): 0, 2,000, 4,000, 6,000, 8,000

Numerical data:	Amount
2016, 5,369kt	8,000
2017, 6,147kt	6,000
2018, 6,425kt 2019, 6,220kt	4.000
2020, 6,233kt	4,000
, -,	2,000



## Page 50, Responsible Care, Reduction of Amount Released into the Environment, Water pollutants, Amount released





#### released (total effluent discharged)

## **Correction Target 8**

[Now reads:]

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

#### 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 (f 2018, 7.3t 2019, 0.8t 2020, 0.8t

## [Should read:]

Amour	it generated:
2019, 5	52,610t
2020, 5	53,686t
Amour	it released:
2019,	8,962t
2020,	8,537t
Amour	nt treated as final lar
2016,	84t
2017,	140t
2018,	124t
2019,	136t
	2019, 5 2020, 5 Amour 2019, 2020, Amour 2016, 2017, 2018,

133t

2020,

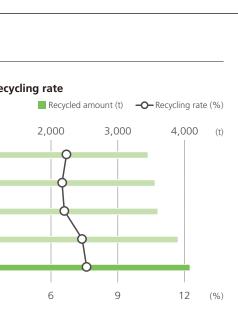
Amount of waste generated, amount released, and amount treated as final landfill  Amount generated Amount released Amount treated as final landfill						
(	0	10,000	20,000	30,000	40,000	
2016	16.8	8,80	7			51,396
2017	1.1	9,95	8			54,705
2018	7.3	11,	337			54,825
2019	0.8	9,056	5			52,703
2020 (fiscal year)	0.8	8,564				53,713

#### Amount of waste generated, amount released, and amount treated as final landfill Amount generated 📃 Amount released 📕 Amount treated as final landfill 0 10,000 20,000 30,000 40,000 50,000 60,000 (t) 51,396 2016 54,705 2017 140 54,825 2018 ndfill: 52,610 2019 53,686 2020 8,537 (fiscal year) 133

	Page 50, Responsible Care, Reduction of Amount Released into the			
Correction Target 9	Environment, Waste material, Recycled amount and			
	recycling rate			

[Now reads:]		
Recycled amount (t):	Recycled amount and rec	
2016, 3,452t		
2017, 3,557t	0	1,000
2018, 3,559t	2016	
2019, 3,901t	2017	
2020, 4,080t	2017	
	2018	
Recycling rate (%):		
2016, 6.7%	2019	
2017, 6.5%	2020	
2018, 6.6%	(fiscal year)	
2019, 7.4%	0	3
2020, 7.6%		

[Should read:]		
Recycled amount (t):	Recycled an	nount and
2016, 3,386t		
2017, 3,418t	0	1,000
2018, 3,482t	2016	
2019, 3,600t	20.0	
2020, 3,885t	2017	
	2018	
Recycling rate (%):		
2016, 6.6%	2019	
2017, 6.2%	2020	
2018, 6.4%	(fiscal year)	
2019, 6.8%	0	3
2020, 7.2%		





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

## [Now reads:]

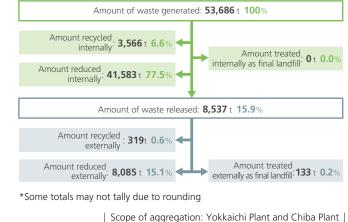
Amount of waste generated: 5	53,713t		Waste material treatment flow
Amount reduced internally:		77.4%	Amount of waste generated: 53,713 t 100%
Amount of waste released:	8,564t,	15.9%	Amount recycled internally: <b>3,566</b> t <b>6.6</b> %
Amount recycled externally:	515t,	1.0%	internally: 3,300 t 0.0%
Amount reduced externally:	8,048t,	15.0%	Amount reduced internally: 41,583 t 77.4%
Amount treated externally as final landfill:	0.8t,	0.0%	Amount of waste released: 8,564 t 15.9%
			Amount recycled: <b>515</b> t 1.0%
			Amount treated externally: <b>8,048</b> t <b>15.0</b> %
			*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:53,686tAmount reduced internally:77.5%Amount of waste released:8,537t,Amount recycled externally:319t,0.6%Amount reduced externally:8,085t,15.1%Amount treated externallyas final landfill:133t,0.2%

#### Waste material treatment flow



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