

OR Annual report 2021

Appendices



Emissions of carbon dioxide & hydrogen sulphide and emission intensity from Hellisheidi and Nesjavellir



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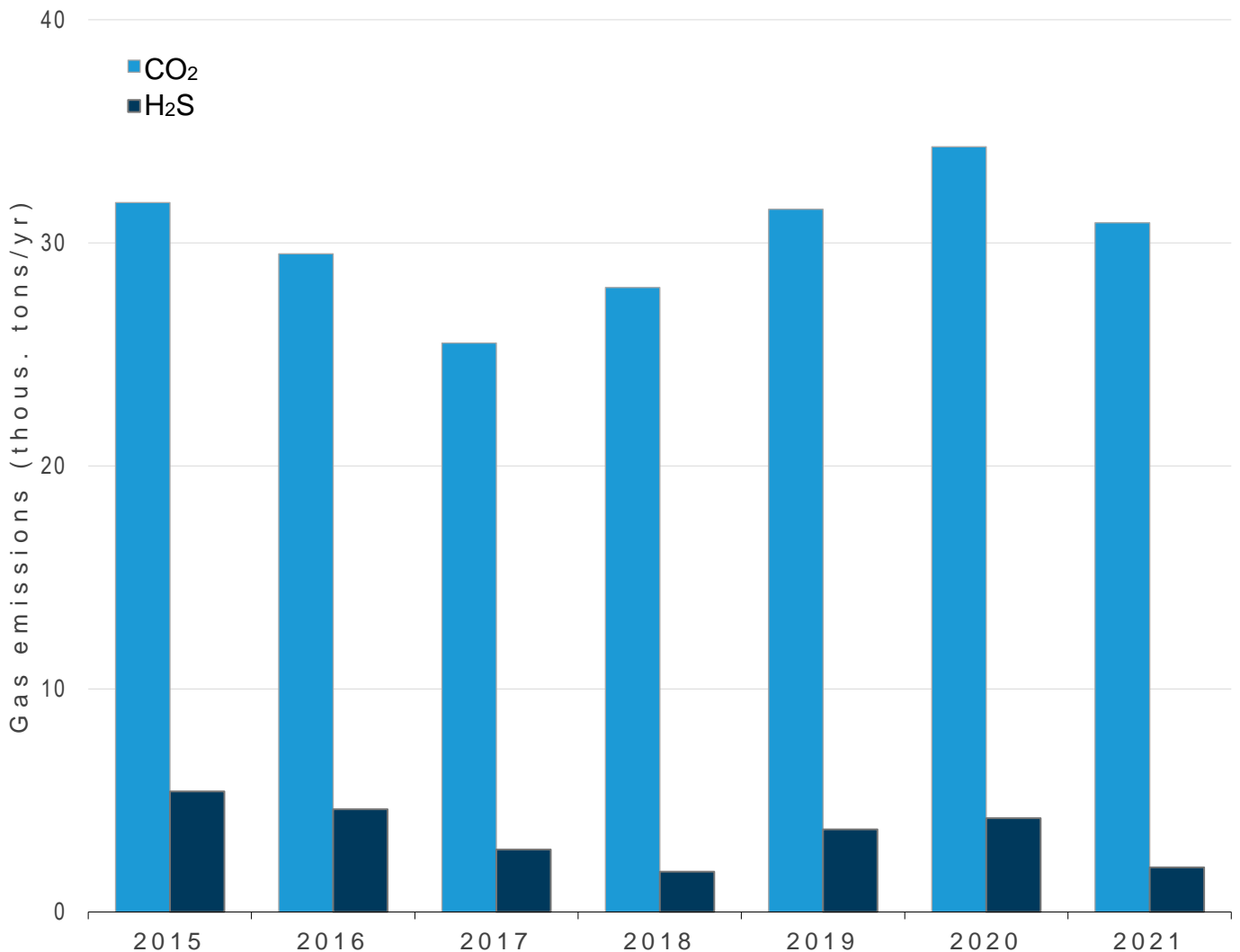
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Cover photo: Gretar Ívarsson

Emissions of carbon dioxide (CO₂), hydrogen sulphide (H₂S), methane (CH₄) and hydrogen (H₂) from Hellisheidi & Nesjavellir 2015-2021

The emissions uncertainty is +/- 12% compared to the 95% uncertainty range.

Hellisheidi



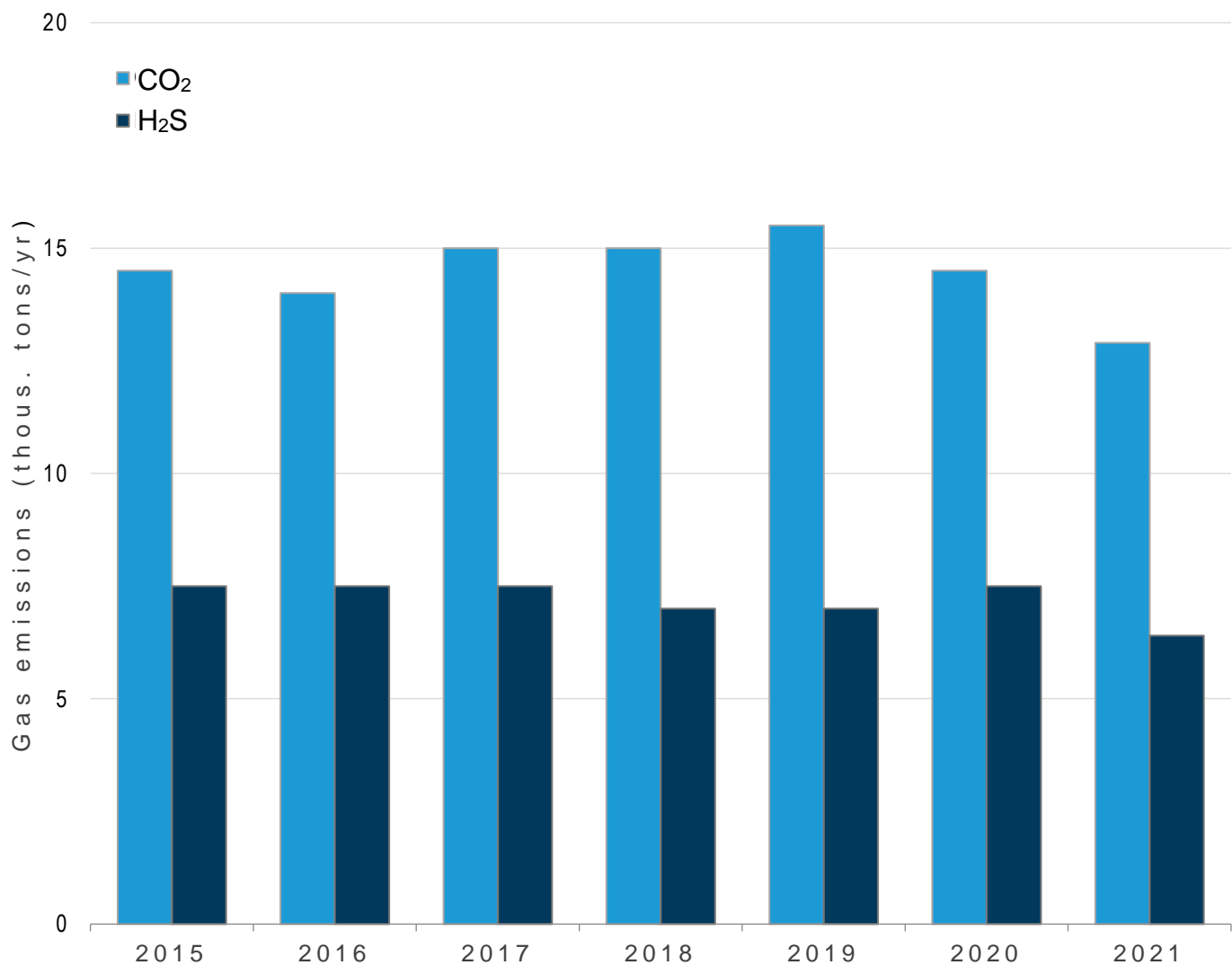
Year	CO ₂ tons/yr	H ₂ S tons/yr	H ₂ tons/yr	CH ₄ tons/yr
2015	31,800	5,400	320	65
2016	29,500	4,600	350	60
2017	25,500	2,800	340	55
2018	28,000	1,800	380	55
2019	31,500	3,700	350	55
2020	34,300	4,200	380	80
2021	30,900	2,000	375	75

Commentary 2021:

1) CO₂ and H₂S dissolved and reinjected in condensate water subtracted. First done in 2015.

2) Approx. 10,700 tons of CO₂ and um 6,000 tons of H₂S were reinjected to the geothermal reservoir.

Nesjavellir

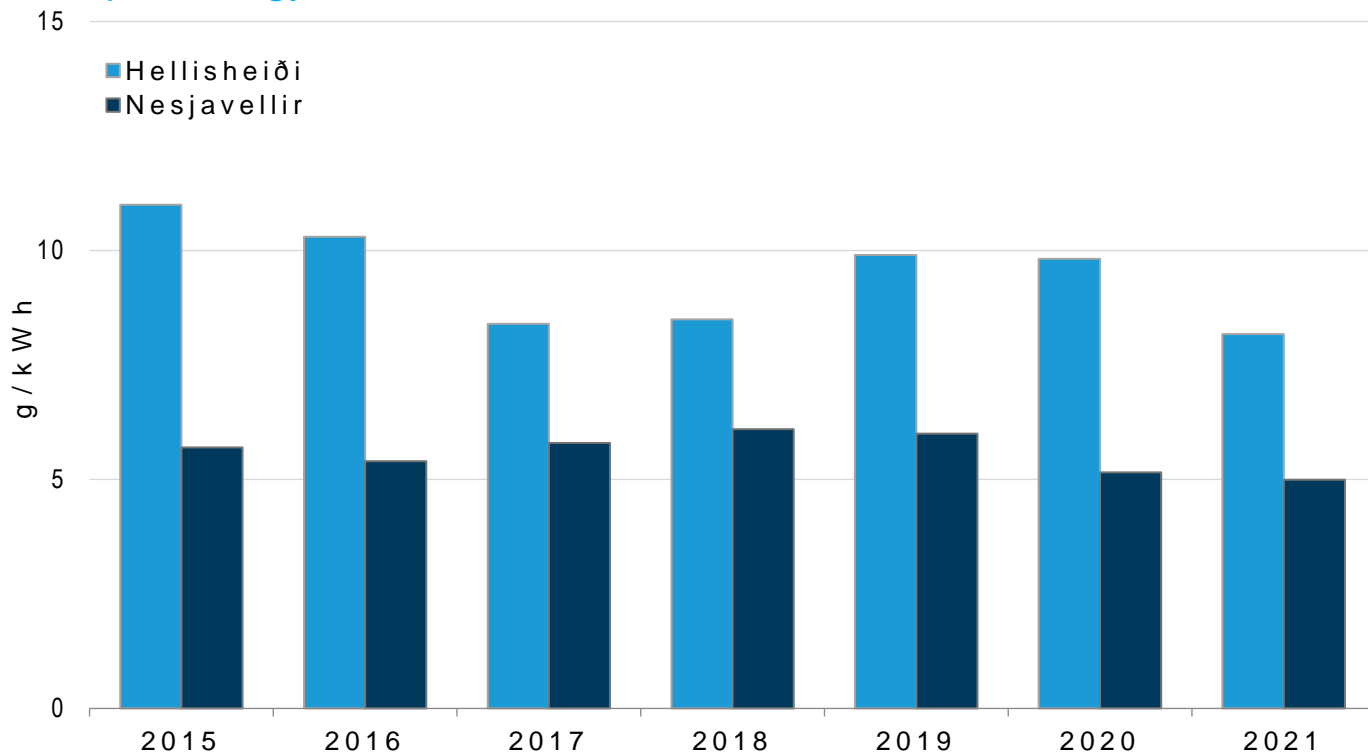


Year	CO ₂ tons/yr	H ₂ S tons/yr	H ₂ tons/yr	CH ₄ tons/yr
2015	14,500	7,500	410	45
2016	14,000	7,500	400	40
2017	15,000	7,500	380	35
2018	15,000	7,000	350	30
2019	15,500	7,000	370	35
2020	14,500	7,500	430	50
2021	12,900	6,400	360	45

Emissions of hydrogen sulphide and carbon dioxide per unit of energy from Hellisheiði and Nesjavellir power plants 2015-2021

There are substantial differences in emissions from the power plants, which can be attributed to, among other things, variable gas quantities and concentrations between fields and years.

CO₂ per energy unit



H₂S per energy unit

