Correction to: Achieving negative emissions through oceanic sequestration of vegetation carbon as black pellets

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The original article has been corrected. Table 1 had to be re-typeset. Minor corrections were made to Tables 2 and 3. Also, in order to increase legibility of the article, bullet lists were created in Section 3.

The online version of the original article can be found at <https://doi.org/10.1007/s10584-021-03170-5>

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Table 1 Comparison of CO₂ emissions from one ton of Black Pellets for power versus for ocean sequestration (OSB) plus substitute power: No geologic sequestration of emissions from power generation (CCS)

	A.	B.	C.
	Baseline (No CCS)	Black Pellets for OSB plus substitute power from:	
	Black Pellets used to generate power	coal (Phase 1)	natural gas (Phase 2)
Useful power production	2446 kWh ^a	2446 kWh ^b	2446 kWh ^b
CO ₂ -equivalent of carbon in one ton of pellets ^c	-1.91 ton	-1.91 ton	-1.91 ton
CO ₂ emissions to atmosphere from generating 2446 kWh	+1.91 ton ^d	+1.86 ton ⁱ	+0.91 ton ^e
Net direct CO ₂ emissions per ton of pellets	0 ton	-0.05 ton	-1.00 ton
Indirect, supply chain CO _{2e} emissions--Black Pellets	+0.39 ton ^f	+0.37 ton ^g	+0.37 ton ^g
Indirect, supply chain CO _{2e} emissions--substitute power	-	+0.15 ton ^j	+0.29 ton ^h
Total direct plus indirect CO _{2e} emissions per ton of pellets	+0.39 ton	+0.47 ton	-0.34 ton

^a 22 MJ/kg (HHV) × 0.40 efficiency × 0.278 kWh/MJ × 1000 kg/ton Source: 22 MJ/kg calorific value (Hasan et al. 2018)^b Substitute power same as useful power generated by burning one ton of Black Pellets^c CO_{2e} removed from atmosphere: 52% carbon in pellets × one ton × 3.667 CO₂/C Source: 52 wt%.% (Hasan et al. 2018)^d All carbon in pellets assumed to be converted into CO₂^e 370 gCO_{2e}/kWh × 2446 kWh ÷ 10⁶ g/ton Source: 370 gCO_{2e} median direct for gas combined cycle (Schlömer 2014)^f Power plant supply chain: 17.5 gCO₂/MJ × 22 MJ/kg × 1000 kg/ton ÷ 10⁶ g/ton Source: 17.5 gCO₂ (Martin-Gamboa et al. 2020)^g 0.39 ton (Col A) less 0.02 ton due to shorter transportation of pellets to ocean destination versus power plant destination^h 120 gCO_{2e}/kWh × 2446 kWh ÷ 10⁶ g/ton Source: 490 median total -370 direct gCO_{2e} for gas combined cycle (Schlömer 2014)ⁱ 760 gCO_{2e}/kWh × 2446 kWh ÷ 10⁶ g/ton Source: 760 gCO_{2e} median direct for pulverized coal (Schlömer 2014)^j 60 gCO_{2e}/kWh × 2446 kWh ÷ 10⁶ g/ton Source: 820 median total - 760 direct gCO_{2e} for pulverized coal (Schlömer 2014)

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