

# GHG Emissions Reduction Targets

Big River Steel is committed to the vision and mission of the ResponsibleSteel initiative. To uphold the global standards, Big River Steel has the following GHG emissions reduction targets:

## Medium-Term Target for Net GHG Intensity:

Reduce net GHG intensity by 5% by 2030 compared to a 2020 baseline year. An annual milestone of 0.5% reduction will be monitored.

Net GHG Intensity	
2020 Baseline – GHG Intensity (tCO <sub>2</sub> e/ton raw steel)	2030 Target – GHG Intensity (tCO <sub>2</sub> e/ton raw steel)
0.859	0.816

1. Intensities are in units of metric tons of CO<sub>2</sub>e per metric ton of raw steel produced.
2. Net GHG intensity is the total Scope 1 emission, Scope 2 emissions, and a subset of Scope 3 emissions associated with the upstream production of pig iron and HBI divided by the annual raw steel production.
3. No offsets or renewable energy credits were used in 2020. Any offsets or renewable energy credits used in the future will be publicly reported.
4. The baseline year may be adjusted in the future per guidance in the *GHG Protocol* to reflect major changes in operation.

## Medium-Term Target for Imported Electricity Net GHG Intensity

Reduce net GHG emissions intensity associated with imported electricity by 12% by 2030 compared to a 2020 baseline year. An annual milestone of 1.2% reduction will be monitored.

Imported Electricity Net GHG Intensity	
2020 Baseline (tCO <sub>2</sub> e/ton raw steel)	2030 Target (tCO <sub>2</sub> e/ton raw steel)
0.153	0.135

1. Intensities are in units of metric tons of CO<sub>2</sub>e per metric ton of raw steel produced.
2. Net GHG intensity for imported electricity is the total Scope 2 emissions divided by the annual raw steel production.
3. No offsets or renewable energy credits were used in 2020. Any offsets or renewable energy credits used in the future will be publicly reported.
4. The 2030 target for imported electricity net GHG intensity will be achieved through increased reliance on carbon-free electricity and purchasing of renewable energy credits.
5. The baseline year may be adjusted in the future per guidance in the *GHG Protocol* to reflect major changes in operation.

## GHG Emissions Public Reporting for 2020:

	Scope 1 – Direct GHG Emissions (t CO <sub>2</sub> e)	Scope 2 – Imported Electricity GHG Emissions (t CO <sub>2</sub> e)	Scope 3 – Indirect GHG Emissions from Upstream Materials (t CO <sub>2</sub> e)	Total GHG Emissions (t CO <sub>2</sub> e)	Partial Scope 3 – Indirect GHG Emissions from Imported Iron (t CO <sub>2</sub> e)
<b>2020 Baseline</b>	353,489	250,463	674,000	1,280,000	800,612

1. All GHG emissions presented were calculated in accordance with the *GHG Protocol*.
2. Scope 1 emissions include stationary source combustion, mobile source combustion, and refrigeration and air conditioning equipment emissions.
3. Scope 2 emissions include emissions associated with imported electricity and were calculated by Big River Steel's electrical utility in partnership with Big River Steel. There are no Scope 2 emissions associated with imported heat and steam.
4. Scope 3 emissions include the emissions associated with upstream purchased goods and materials using an environmentally extended input-output database.
5. The total GHG emissions is the sum of Scope 1 – Direct GHG Emissions, Scope 2 – Imported Electricity GHG Emissions, and Scope 3 – Indirect GHG Emissions from Upstream Materials.
6. No offsets or renewable energy credits were used in 2020.

	Steel Production (tons)	Scope 1 + Scope 2 GHG Emissions (t CO <sub>2</sub> e)	GHG Emissions Intensity (Scope 1 + Scope 2) (t co <sub>2</sub> e/ton raw steel)	Partial Scope 3 – Indirect GHG Emissions from Imported Iron (t co <sub>2</sub> e)	GHG Emissions Intensity (Scope 1 + Scope 2 + Partial Scope 2) (t co <sub>2</sub> e/ton raw steel)
<b>2020 Baseline</b>	1,634,409	603,952	0.370	800,612	0.859

1. GHG emissions intensity includes Scope 1 and Scope 2 emissions calculated in accordance with the *GHG Protocol* and partial Scope 3 indirect GHG emissions associated with imported iron (pig iron and HBI). Emissions associated with other raw materials are not included in the GHG emissions intensity.