

Berry Metal Team works with Mexican Customer to Improve EAF Performance

The Berry Metal EAF Team has worked with a Mexican customer over the last three (3) years on a continuous improvement plan at their existing EAF. The technology partnership began with the furnishing of Berry Metal V-Max™ Burners in two (2) of their flat panel positions.



Upon success, stage 2 was replacing the flat Panels with Berry Metal DuraForge™ Copper Boxes, outfitted with V-Max™ Burners & BMC Carbon Air Assists.



The final stage of this furnace conversion was installing the Berry Metal DuraForge™ Sump Panel Technology with V-Max™ Burner.

The results have been improvements across the board, with savings in Carbon, Natural Gas, Oxygen and Electrical utilization and increased Productivity. The results truly speak for themselves.

➤ Safety & Environment:

- ✓ Elimination of water leaks in panels (2 events last year) -- >90% reduction from 2019, >75% reduction from 2021.
- ✓ Approx 15% reduction in carbon dioxide (CO2) emissions

Variable	Unit	2019	2020	2021	2022	2023	%Improvement
Electrical energy	Kwh/TAL	-1.2	-7.7	-18.6	-23.9	-22.2	6% 📈
Charcoal	Kg/TAL	-2.9	-7.1	-8.2	-8.9	-6.9	60% 📈
Natural gas	m3/TAL	0	-1.7	-2.8	-2.0	-2.5	46% 📈
Oxygen	m3/TAL	0.5	-3	-5.9	-5.1	-2.1	15% 📈
Electrodes	Kg/TAL	-0.01	-0.10	-0.30	-0.3	-0.32	17% 📈
Productivity	TAL /hr	0.9	2	3.8	7.6	7.5	7% 📈