



**Table 6b. [End Uses](#) of Energy per Ton of Steel, 1998 and 2002  
(thousand Btu per ton)**

Iron and Steel Mills (NAICS <sup>1</sup> 331111)	<a href="#">MECS</a> Survey Years	
	1998 <sup>2</sup>	2002 <sup>2</sup>
Total <sup>3</sup>	17,559	18,205
Net Electricity <sup>4</sup>	1,659	2,302
Natural Gas	4,789	4,855
Coal	504	450
<a href="#">Boiler Fuel</a>	--	--
Coal	84	W
Residual Fuel Oil	105	*
Natural Gas	546	488
<a href="#">Process Heating</a>	--	--
Net Electricity	777	988
Residual Fuel Oil	200	*
Natural Gas	3,875	4,116
<a href="#">Machine Drive</a>	--	--
Net Electricity	714	1,076

- Notes:** 1. The North American Industry Classification System (NAICS) has replaced the Standard Industrial Classification (SIC) system. NAICS 331111 includes steel works, blast furnaces (including coke ovens), and rolling mills.
2. Denominators represent the entire steel industry, not those based mainly on electric, natural gas, residual fuel oil or coal.
3. 'Total' is the sum of all energy sources listed below, including net steam (the sum of purchases, generation from renewable resources, and net transfers), and other energy that respondents indicated was used to produce heat and power. It is the fuel quantities across all end-uses.
4. 'Net Electricity' is obtained by summing purchases, transfers in, and generation from noncombustible renewable resources, minus quantities sold and transferred out. It does not include electricity inputs from onsite cogeneration or generation from combustible fuels because that energy has already been included as generating fuel (for example, coal).
- W=Withheld to avoid disclosing data for individual establishments.
- \* Estimate less than 0.5.

**Sources:** Energy Information Administration, Manufacturing Energy Consumption Surveys 1998, and 2002; U.S. Bureau of the Census, Current Industrial Report, Steel Mill Products, December 1998 and December 2003.

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