

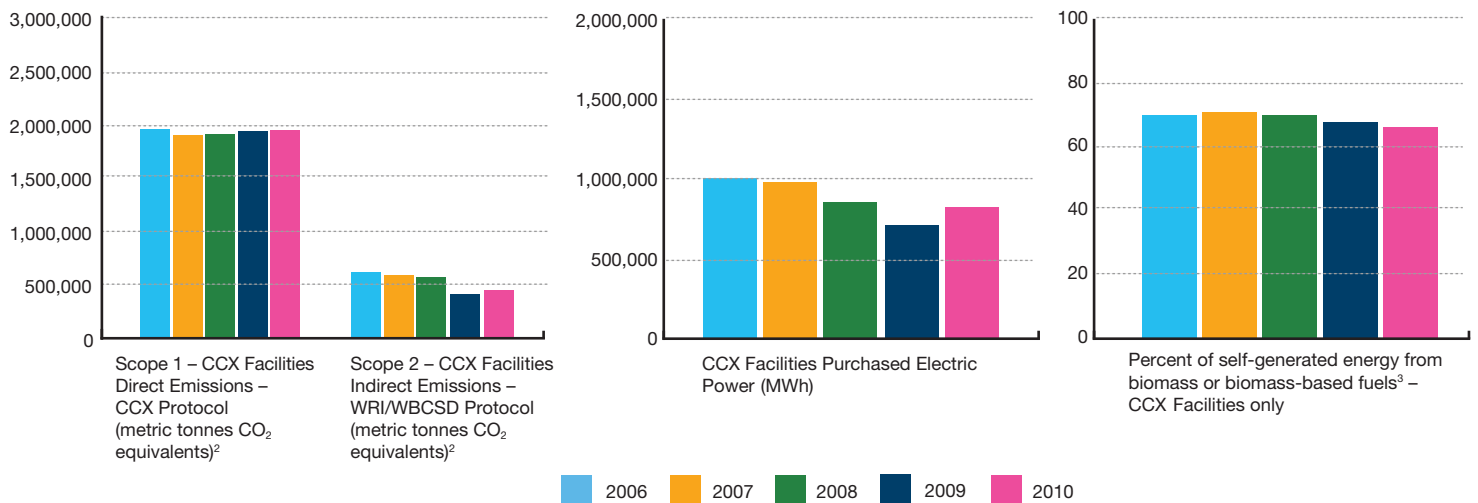
# 2010 Metrics: MWV Carbon Dioxide Emissions

MWV's commitment to sustainability extends from our corporate offices to our global manufacturing operations. We are meeting our responsibility by developing innovative new processes that make our operations more efficient and reduce our carbon footprint.

## MWV commitment to lower carbon dioxide emissions

We are fulfilling our responsibility to lower emissions through our voluntary commitment to reduce direct carbon dioxide equivalents by six percent from the 1998-2001 baseline by the end of 2010 through our participation in the Chicago Climate Exchange. We share our progress through such organizations as SAM (Sustainable Asset Management) for inclusion in the Dow Jones Sustainability World Index and through the Carbon Disclosure Project (CDP), where we have publicly reported our carbon dioxide emissions since the S&P 500 were invited in 2006.

### Absolute carbon dioxide emissions and energy use<sup>1</sup>



	2006	2007	2008	2009	2010
Scope 1 - CCX Facilities Direct Emissions - CCX Protocol (metric tonnes CO <sub>2</sub> equivalents) <sup>2</sup>	1,963,110	1,825,276	1,847,226	1,892,618	1,958,599
Scope 2 - CCX Facilities Indirect Emissions - WRI/WBCSD Protocol (metric tonnes CO <sub>2</sub> equivalents) <sup>2</sup>	583,221	567,935	523,450	415,811	471,547
CCX Facilities Purchased Electric Power (MWh)	997,298	971,342	893,439	719,339	809,790
Percent of self-generated energy from biomass or biomass-based fuels <sup>3</sup> - CCX Facilities Only	70.2%	71.7%	71.0%	68.2%	67.2%

<sup>1</sup> Data represent significant sites in the U.S., which are the basis for our reports to the Chicago Climate Exchange (CCX). We estimate that the 2010 CO<sub>2</sub> emissions reported above account for 94% of our direct CO<sub>2</sub> emissions globally. These numbers are adjusted to reflect only continuing MWV operations.

<sup>2</sup> MWV Direct emissions data from CCX facilities are third-party verified.

<sup>3</sup> Biomass-based fuels include wood waste and spent cooking liquor. Other sources of energy include coal, natural gas, fuel oil and propane.

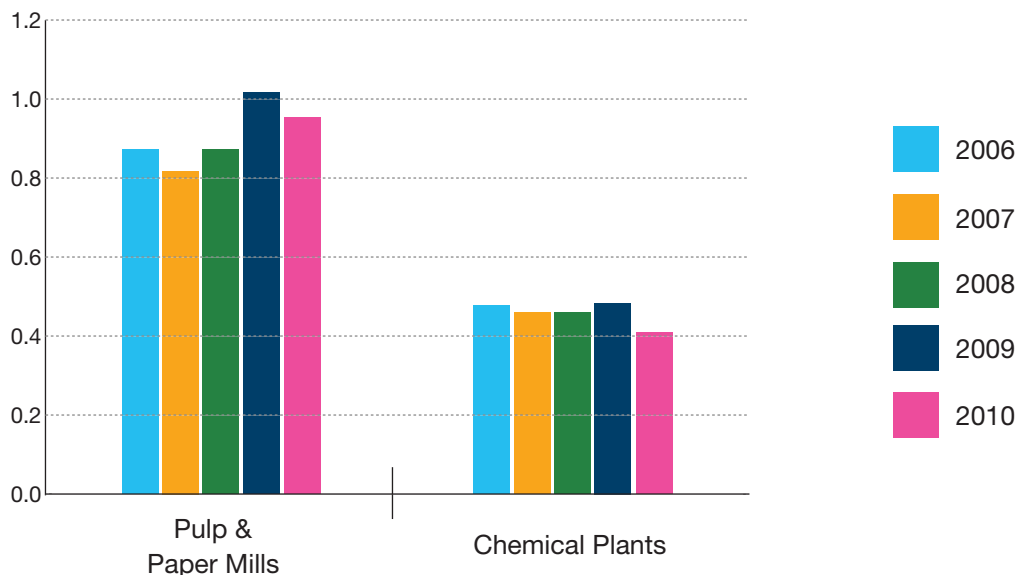
Note: Results do not reflect the Charleston, SC paper mill and Specialty Papers Group, which were sold in 2008 and 2009.



Further, MWV is committed to do its part toward our trade association American Forest & Paper Association's Climate VISION commitment to a 12 percent reduction in relative CO<sub>2</sub> emissions ("intensity") between 2000 and the end of 2012 for major production facilities and paper mills.

### Intensity, carbon dioxide emissions

(Direct and indirect - tonnes CO<sub>2</sub>E / net ton of product)



	2006	2007	2008	2009	2010
Pulp & Paper Mills (Integrated) <sup>1</sup>	0.87	0.82	0.87	1.01	0.94
Chemical Plants	0.44	0.43	0.41	0.46	0.41

<sup>1</sup> In 2010, the emissions factors used in the calculations were updated to the 2006 IPCC guidelines and CH<sub>4</sub> and N<sub>2</sub>O emissions from biomass-based fuels were added.

MWV is working on many levels to reduce greenhouse gases. We use carbon-neutral, renewable biomass-based fuels for 64 percent of all energy requirements, including purchased electricity and steam, at our significant U.S. manufacturing facilities. We self- or co-generate 74 percent of the total electricity required by our U.S. integrated paper mills. Actively reducing carbon dioxide emissions allows us to lessen our use of fossil fuels. We evaluate our capital projects to ensure that we will meet our CO<sub>2</sub> reduction goals. We also develop products that reduce carbon dioxide emissions in use, including the wood-based carbon products from our chemicals business.

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