

# Hot Mix Asphalt (HMA) "Greening" Initiatives Checklist

- ✓ Long-life/perpetual pavements – thicker asphalt pavements designed with a rich bottom layer to control fatigue cracking, with no major reconstruction required over a 50 year or more period.
- ✓ Warm mix asphalt (WMA) – mixed and placed at lower temperatures than conventional hot mix asphalt (HMA), reducing energy use, plant Green House Gas (GHG) and emissions by 35 to 65 percent.<sup>(1) (2)</sup>
- ✓ Quiet pavements – to address noise concerns in sensitive areas.
- ✓ Porous (or dense-graded) pavements – considered a storm water management best practice to reduce runoff and promote groundwater recharge.
- ✓ Shingles (manufactured waste or tear-offs) – can be recycled in HMA. The MPCA estimates up to 400,000 ton of shingles are currently disposed of in landfills in the Twin City metropolitan area each year.
- ✓ HMA recycling – according to a U.S. Environmental Protection Agency/FHWA study, the asphalt industry recycles more than 70 million tons of its own product every year, making it America's number one recycler. Asphalt recycling saves taxpayers about \$1.8 billion a year.
- ✓ Overcoming resistance to change.
- ✓ Allowing innovation in specifications.



(1) Asphalt Emissions Study, EES Group, Inc., Ohio, October 2006

(2) Report of 2008 WMA Trials, Ohio DOT Office of Materials, November 2008

*FOR MORE INFORMATION: Contact the Minnesota Asphalt Pavement Association at (651) 636-4666 or at [info@mnapa.org](mailto:info@mnapa.org) or visit our web site at [www.asphaltisbest.com](http://www.asphaltisbest.com).*

