

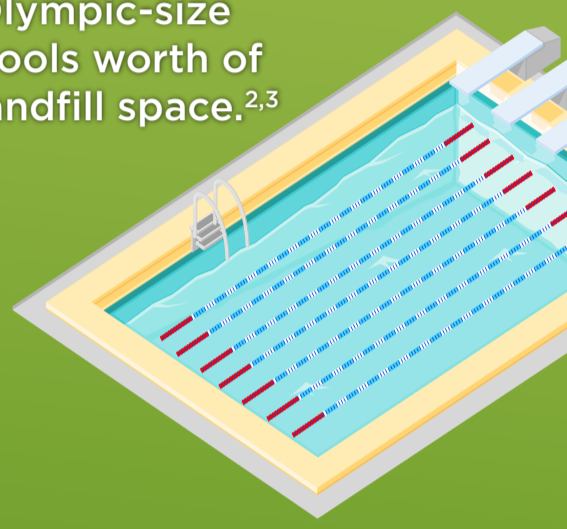


# THE IMPACT OF ASPHALT SUSTAINABILITY

About **9.3M** scrap tires were used to make quiet, rubberized asphalt pavements.<sup>4</sup>



Reuse of old pavements saves **13,500** Olympic-size pools worth of landfill space.<sup>2,3</sup>



About **1.9M** tons of roofing shingles were put to use in new pavement mixes and other road-building uses.<sup>1</sup>



**74M** tons of old pavements were put to use in new pavement mixes and other road-building activities.<sup>1</sup>

**99%+**

of the material removed from old asphalt pavements is reused in new pavements<sup>1</sup>

**\$2.6B+ SAVINGS**

from recycled materials compared to the cost of raw materials.<sup>1</sup>

**WARM-MIX ASPHALT**

technologies have the benefit of reducing energy consumption which decreases the production of greenhouse gases.<sup>1,5</sup>

**32%+**

Nearly a third of all asphalt pavement mixtures are produced using warm-mix technologies.<sup>1</sup>

1. Hansen, K.R., & A. Copeland (2017). Asphalt Pavement Industry Survey on Recycled Materials and Warm-Mix Asphalt Usage: 2015, 6th Annual Survey. Report No. IS-138. National Asphalt Pavement Association, Lanham, Maryland.

2. Booz Allen Hamilton (2013). Analysis of Recycling of Asphalt Shingles in Pavement Mixes from a Life Cycle Perspective. Contract No. EPW07020. U.S. Environmental Protection Agency, Region 8, Denver, Colorado.

3. Newcomb, D.E., J.A. Epps, & F. Zhou (2015). The Use of Reclaimed Asphalt Pavement and Recycled Roofing Shingles in High Binder Replacement Asphalt Mixtures: A Synthesis. National Asphalt Pavement Association. Lanham, Maryland.

4. RMA (2016). 2015 U.S. Scrap Tire Management Summary. Rubber Manufacturers Association, Washington, D.C.

5. Croteau, J.-M., & B. Tessier (2008). Warm Mix Asphalt Paving Technologies: a Road Builder's Perspective. Presented at Conference of the Transportation Association of Canada, September 21-24, 2008, Toronto, Ontario, Canada.