



Energy Usage & Greenhouse Gas Emissions of Pavement Preservation Processes for Asphalt Concrete Pavements

PAVEMENT LIFE EXTENSIONS PROVIDED BY PAVEMENT PRESERVATION TREATMENTS

Treatment Type

- Thin HMA Overlay
- Hot In-Place Recycling
- Slurry/Micro Surfacing
- Crack Filling
- Traditional Fog Seal
- **RePlay** Fog Seal

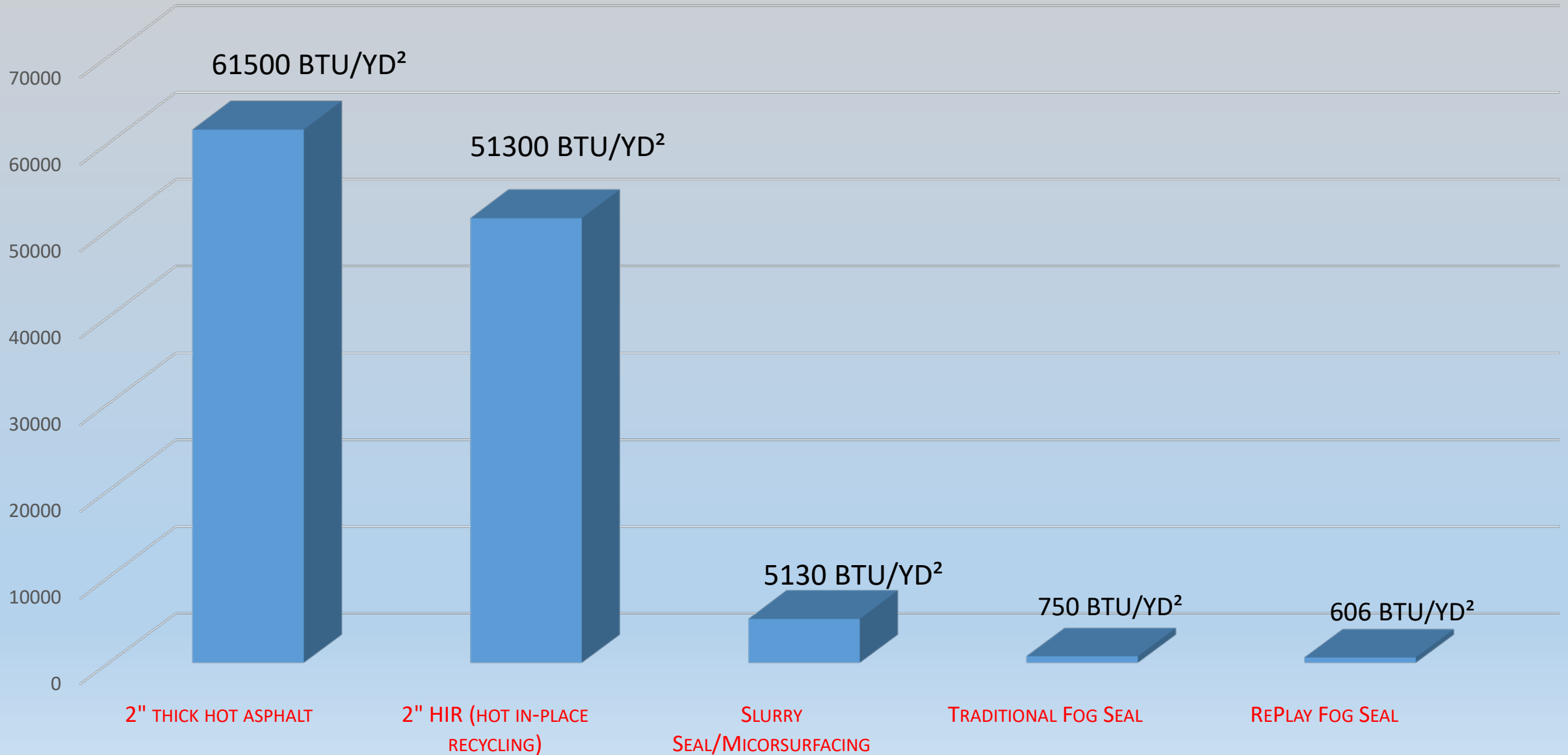
Life Extension

- 5 – 10 years
- 5 – 10 years
- 3 – 5 years
- 1 – 2 years
- 1 year
- 3 – 7 years depending on age of pavement to be treated

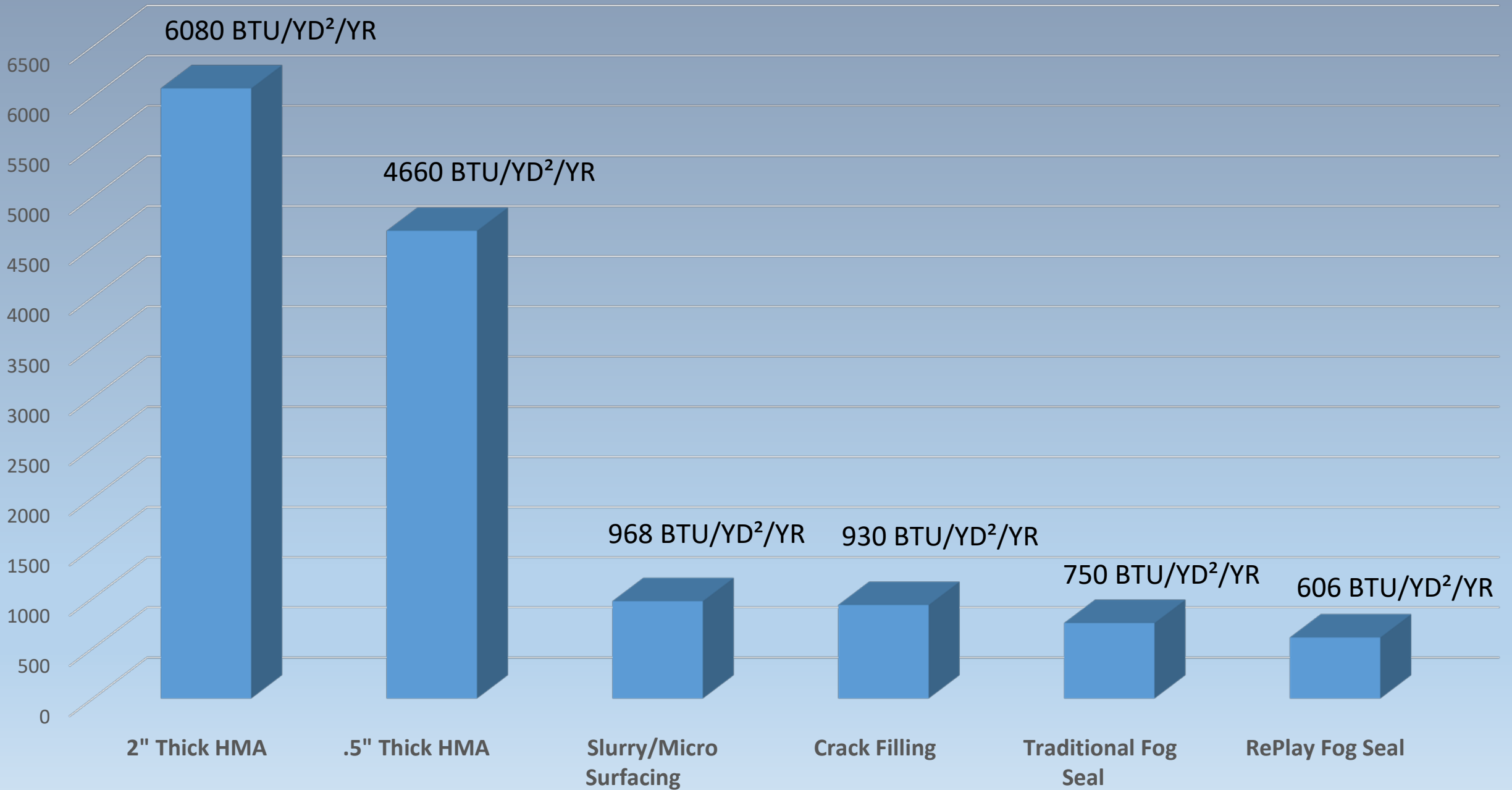
Annualized Energy and GHG for Preservation Processes

Process	BTU/yd ² /yr	lb/co2/yd ² /yr
Hot Mix Asphalt	4,660 – 9,320	0.9 – 1.8
HIR	3,870 – 7,740	0.7 – 1.4
Slurry Seal	1,170 – 2,340	.15 - .30
Crack Fill	930 – 1,860	.13 - .25
Fog Seal	500	.07
RePlay	203	- 7

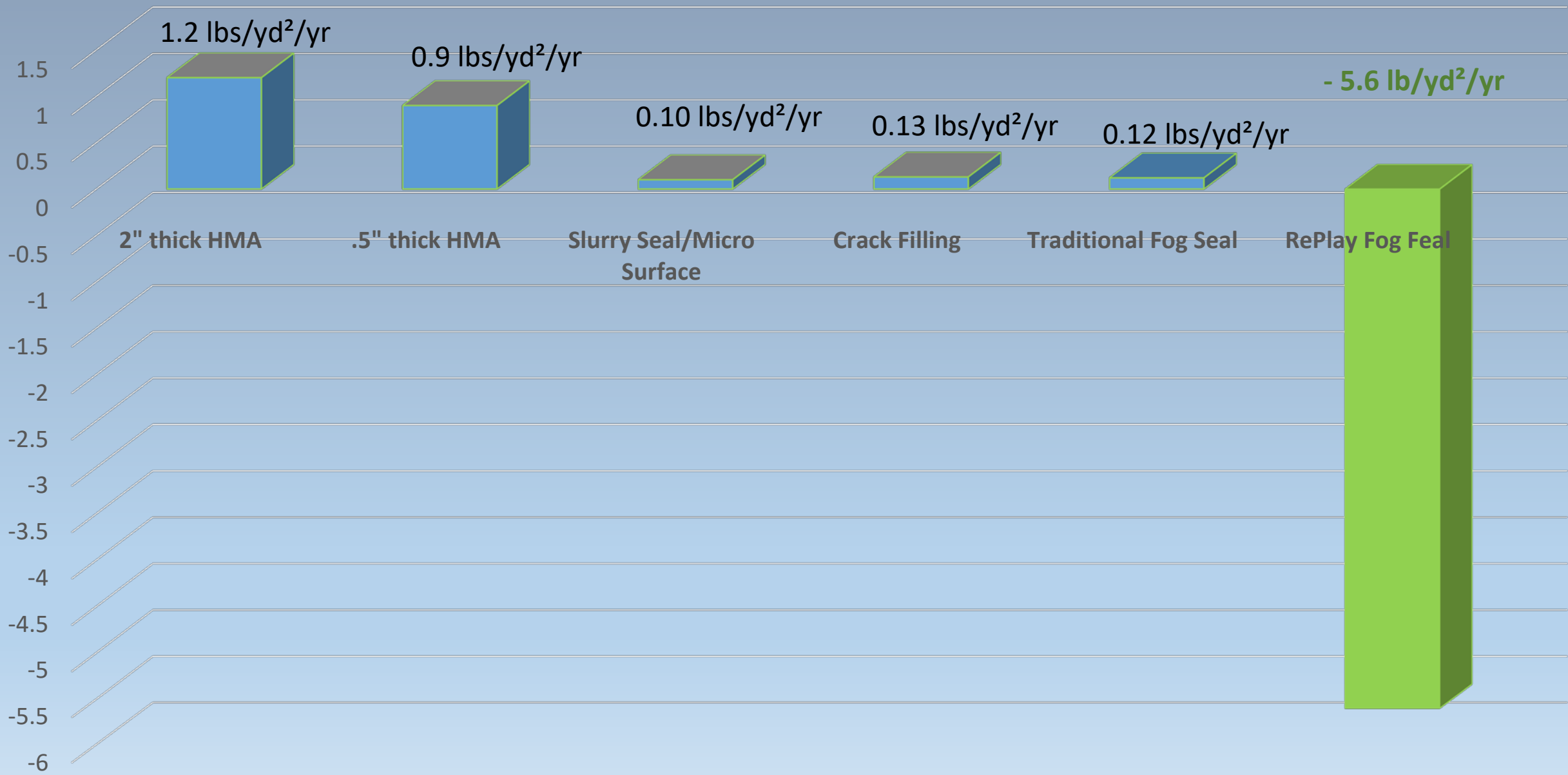
Total Energy Usage of Asphalt Pavement Preservation Processes (BTU/yd²)



Annualized Total Energy Usage For Pavement Preservation Treatments



Annualized Total GHG Emissions for Pavement Preservation Treatments (lb/yd²)



GREEN Pavement Preservation



ASK US

How to Reduce -

- Green House Gases
- Energy Usage
- Traffic Downtime
- Maltenes Loss
- Complex Viscosity

How to extend your budget

- Low cost to install
- Extend life of asphalt
- Save 300% to 500% over time
- Simplify pavement preservation

CONTACT



Dennis Helmer

Dennis@Bio-PaveProducts.com
www.Bio-PaveProducts.com

910 Howell Mt. Rd. N.
P.O. Box 868
Angwin, CA 94508

(707) 286-4390
Fax (707) 286-4396
Cell (707) 486-7081



Authorized Distributor of BioSpan Products



"Using Sustainable Alternatives in Asphalt Preservation"