

Sustainable Communities Strategies

Reduce GHG Emissions

Rigid Smooth Pavements

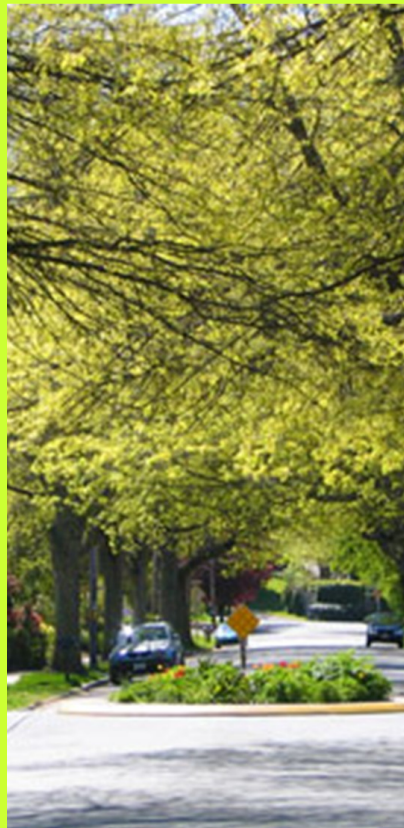
- ◇ Reduce fuel consumption by 3-17% for cars and trucks (1)
- ◇ No rutting or shoving (2)
- ◇ Resists pothole formation (3)

Recycle Roads In-Place

- ◇ Reduce waste to landfills (4)
- ◇ Reduce emissions from repetitive maintenance (5)
- ◇ Save taxpayer dollars (6)

Reduce Dependence on Petroleum Products

- ◇ Use locally produced materials (7)
- ◇ Protect environment from toxic oil pollutants (8)
- ◇ Use fewer trucks during construction (9)



Improve Air Quality

Light Colored Pavements

- ◇ Lower ambient temperatures 7 degrees F (10)
- ◇ Reduce smog formation (11)
- ◇ Reduce Heat Island Effect (12)

Reduce Energy Demand

Light Colored Pavements

- ◇ Reduce number of light fixtures needed (13)
- ◇ Improve visibility and safety (14)
- ◇ Achieve potential energy cost savings (15)

Implementing

SB 375

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Enhance Water Quality

Pervious Pavement

- ◇ Reduce stormwater runoff and urban drool (16)
- ◇ Recharge underground water supply (17)
- ◇ Filter trash and debris (18)

Resources and References

Rigid smooth pavements: 1-3

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2. "Road Surface's Reflectance Influences Lighting Design,"1986), by R. A. Stark. Also the "Cool Houston Plan", Pomerantz et al, 2003.
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