**California High-Speed Rail**

**2017 Sustainability Report Highlights**

“High-speed rail is being delivered in a responsible manner that not only sets a new bar for sustainable construction in California, but also provides a much-needed boost to local economies and California’s small businesses.”

Chair Dan Richard  
Board of Directors

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**Minimizing Construction GHG Emissions**

![Diagram showing minimization of GHG emissions through recycling and efficient vehicles](image)

**On-and off-Road Vehicles: Emissions Produced**

- **Recycling**
  - Renewable and Bio Diesels
  - Efficient Vehicles
  - Tier 4: Avoided Black Carbon

**Additional Actions to Sequester, Prevent, or Avoid GHG Emissions**

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**As we procure our high-speed rail trains we will require best in class energy efficiency. Our providers will be required to disclose life cycle environmental impacts of the rolling stock through submission of EPDs.**

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**Mode Comparison**

- **Burden**
  - Plane: 224
  - Auto: 149
  - Train: 127

- **Savings**
  - Plane: 149

*Grams per passenger mile were developed based on GHG emissions results developed from the VMT and Air Trip reduction outputs of the ridership and revenue model developed for the 2016 Business Plan. Load factors of 101 passengers per plane, 1.25 passengers per auto, and 265 passengers per train were used.

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**2016 Materials Management (in tons)**

- 70,414 Concrete Recycling
- 10,544 Asphalt Recycling
- 4,090 Mixed Recycling
- 1,213 Metals Recycling
- 513 Wood Recycling
- 325 Mixed Waste
- 2 Organics

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**To view the entire report visit:** [http://www.hsr.ca.gov/](http://www.hsr.ca.gov/)

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**As of October 2017, high-speed rail has successfully preserved over 2,000 acres of natural habitat.**

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**Recycled 99 percent of all construction materials, including 100 percent of all concrete and steel, keeping 87,100 tons of waste material out of landfills.**

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96 of the 417 small businesses under contract are located in disadvantaged communities.