

## 14 Ways To Incorporate Sustainability Into Highway Project Delivery

Construction —  
 Design —  
 Planning —

1.	Reduce material used and waste generated – remember the phrase “reduce, reuse, recycle” during design and construction, and find the highest and best use of materials generated during deconstruction and demolition.		✓	✓
2.	Procure materials locally to save fuel, reduce costs, and minimize emissions that degrade air quality and contribute to climate change.		✓	✓
3.	Procure other goods and services (design services, construction contractors, reprographics, hotels, meals, equipment etc.) locally to stimulate the local economy.		✓	✓
4.	Reduce non-renewable fuel used in construction equipment – for example, limit idling or use a biodiesel blend made from renewable resources.			✓
5.	Upgrade and retrofit the engines and exhaust systems of construction equipment to reduce emissions, benefiting worker health and the local community’s air quality.			✓
6.	Consider life-cycle concerns – for example, make decisions based on the total cost of ownership over the life of the facility, not only on construction costs, and include maintenance concerns during the design phase.	✓	✓	
7.	Design infrastructure for low impact and durability over the long term.		✓	
8.	Protect and conserve the natural environment at every opportunity, helping to sustain critical ecosystem services for future generations.	✓	✓	✓
9.	Use programmatic and other streamlined permitting processes to improve efficiency and result in better environmental outcomes.	✓	✓	
10.	Consider how land use and transportation interact – compact, mixed-use communities with transportation options result in reduced demand for highway capacity.	✓	✓	
11.	Link the highway system to other modes such as bike, pedestrian, bus, and rail to help manage demand.	✓	✓	
12.	Provide opportunities for workforce development (including vocational training and apprenticeships), paying particular attention to minority groups to ensure a diverse and representative workforce.			✓
13.	When outsourcing work to the private sector, ensure opportunities are available to disadvantaged, minority, women-owned, and emerging small businesses (DMWESB’s).		✓	✓
14.	Involve citizens in facility designs that impact their communities, so that those most affected by infrastructure changes are helping to define solutions.	✓	✓	

Many of the above concepts are reflected in ODOT’s innovative Context Sensitive and Sustainable Solutions (CS<sup>3</sup>) approach. This approach is being used to deliver the \$1.3 billion OTIA III State Bridge Delivery Program, which is repairing or replacing hundreds of Oregon’s aging bridges. The CS<sup>3</sup> process is designed to meet traditional goals of maintaining safety and mobility while also reflecting community values, supporting economic prosperity, achieving responsible stewardship of the natural environment and facilitating cost-effective solutions. The transfer of CS<sup>3</sup> from the Bridge Program to mainstream ODOT projects will occur in the coming years.