

Innovative Technology Rulemaking Possible New Engine or Vehicle Certification Flexibility Pathways

The Innovative Technology Regulation being developed by California Air Resources Board (ARB) staff would provide two optional pathways for ARB-certification of innovative new truck or bus engine or vehicle technologies. These two potential pathways, identified below, would provide flexibility from existing ARB certification requirements for criteria pollutants (including on-board diagnostics), with the pathway dependent upon the scale of oxide of nitrogen (NOx) or greenhouse gas (GHG) emission reductions achieved by the technology. To be eligible for one of these two engine or vehicle certification pathways, the technology must: 1) be surplus to California emission standards (including the applicable criteria pollutant and greenhouse gas standards); 2) impact the engine or driveline in a meaningful way, and 3) meet the eligibility criteria identified for one of the two pathways identified below.

①

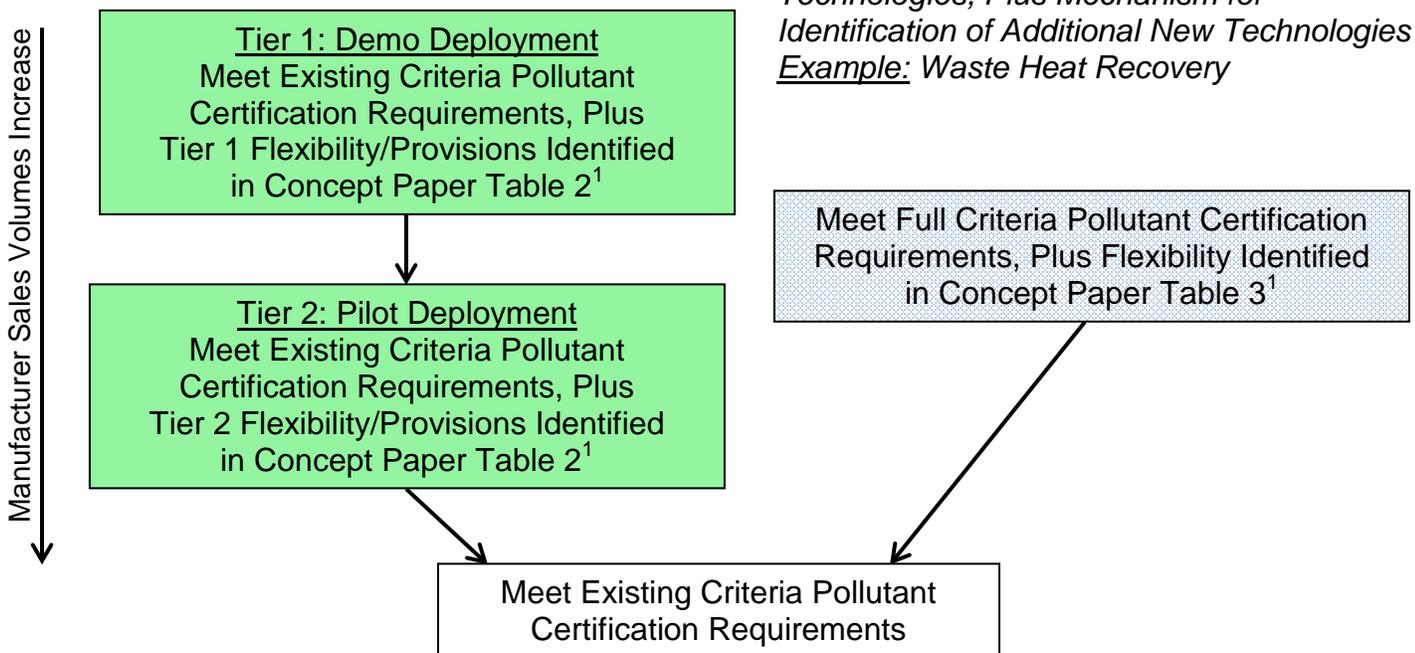
Transformational Technology

Eligibility Criteria: Provides a Bridge to Zero-Emission Technology and Achieves at Least 20% GHG Benefit (All Truck and Bus Vocations); or Provides at Least 20% GHG or 50% NOx benefit (Heavy-Heavy-Duty Tractors Only)

②

Technology Diversity

Eligibility Criteria: Engineering Analysis Indicates Technology Has Potential to Provide Modest NOx or GHG Benefits (Heavy-Heavy-Duty Only)
Regulation Identifies Specific Eligible Technologies, Plus Mechanism for Identification of Additional New Technologies
Example: Waste Heat Recovery



Each technology/vocation combination defaults back to existing certification requirements for a manufacturer once it exceeds Tier 2 California volumes for that technology/vocation combination, and for all manufacturers once an industrywide California sales threshold (tbd) for that technology/vocation combination is met.

1 – For more information, or for information regarding the regulation’s aftermarket conversion element see: ARB, March 9, 2015 Innovative Technology Regulation Public Workshop Concept Paper; <http://www.arb.ca.gov/msprog/itr/itr.htm> .