



Mobile Emissions Technology, Policy, and Implementation

Testing Services Overview

Emisstar offers a comprehensive suite of complete engine and vehicle testing services through our **Test Channel™** network of nationally recognized testing facilities; on-vehicle, real-time measurement capabilities using portable emissions measurement systems (**PEMS**); and Low-Cost Carbon Measurement (**LCCM™**) technology.

Services	Test Channel™	PEMS	LCCM™
Description	Engine and chassis dynamometer testing services	Energy and emissions performance under <i>real-world</i> conditions	Mobile measurement technology to <i>easily and inexpensively</i> verify carbon offsets
Applications	<ul style="list-style-type: none"> • Engine and vehicle certification, including gasoline, diesel and alternative powertrains • Diesel emission control technology verification • Engine and vehicle technology research and development (R&D): <ul style="list-style-type: none"> – Fuels and lubricants – Components – Engines – Hybrid drivetrains – Emission control technologies • Product durability evaluations 	<ul style="list-style-type: none"> • Green vehicle and technology return on investment (ROI) assessments • Fuel consumption based on carbon balance • Criteria emissions including: <ul style="list-style-type: none"> – Total hydrocarbons – Nitrogen oxide – Nitrogen dioxide – Carbon monoxide – Particulate matter • Greenhouse gas emissions, including carbon dioxide (CO₂) • Engine data from the vehicle’s diagnostic port (via the ECU) • EPA SmartWaySM technology certification • On-highway and nonroad not-to-exceed (NTE) standards 	<ul style="list-style-type: none"> • Telematics-integrated carbon measurement technology platform for commercial vehicle applications • Performance-based testing and reporting of carbon emissions: <ul style="list-style-type: none"> – Validation of emission reductions for projects in regulated and voluntary markets – Development of in-use carbon emissions factors for the transportation sector • Technological link between transportation offset projects and carbon markets: <ul style="list-style-type: none"> – Intermodal freight – Fuel-switching – Public transit

Assessing emissions and energy technology under real-world and laboratory conditions

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