WHAT IS THE TTG?

- A voluntary platform for G20 countries to share respective experience and work together to improve the energy and environmental performance of motor vehicles, especially HDVs.

- 14 participating economies: Argentina, Australia, Brazil, Canada, China, the EU (co-lead), Germany, India, Italy, Japan, Mexico, Russia, the United Kingdom, and the United States (co-lead).

- Two implementing organizations: International Council on Clean Transportation (ICCT); Global Fuel Economy Initiative (GFEI).

- Administered by the International Partnership for Energy Efficiency Cooperation (IPEEC).
### MISSION AND SCOPE

<table>
<thead>
<tr>
<th>Build</th>
<th>Build domestic support and enhance capability for action to reduce the energy and environmental impacts of motor transport, especially heavy-duty vehicles (HDVs).</th>
</tr>
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<tbody>
<tr>
<td>Identify and exchange</td>
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</tr>
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<td>Conduct</td>
<td>Conduct analysis and outreach to assess the opportunities, barriers, costs and benefits of HDV energy efficiency action, and subsequently recommend a course of action for participating G20 countries.</td>
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</tbody>
</table>
Targeting HDVs can benefit the economy, climate, air quality and public health.

- Small fraction of the on-road vehicle fleet accounts for 40% of its energy use and CO₂
- Proven technologies can dramatically reduce particulate matter and ozone precursors
- Reducing diesel black carbon has multiple benefits for health and climate
- Growing importance given rising demand for road freight and public transport
FOUR-PART SOLUTION

1. Improve fuel quality by reducing fuel sulfur levels to near-zero
   • Reduces air pollution; enables advanced emission control technologies

2. Introduce stringent tailpipe emission standards
   • Reduces air pollution and black carbon emissions

3. Adopt fuel efficiency standards
   • Reduces CO₂ emissions and petroleum consumption

4. Establish national and regional green freight programs
   • Reduces fuel consumption and pollutant emissions
FIVE G20 ECONOMIES HAVE ADOPTED HDV EFFICIENCY STANDARDS

Share of global new HDV sales in economies with HDV efficiency standards

Status of HDV efficiency standards
- Adopted one or more phases
- First phase proposed or formally under development
- Other / information not available

## CURRENT TTG ACTIVITIES

<table>
<thead>
<tr>
<th>Deep Dives</th>
<th>Build domestic support and enhance capability for action to reduce the energy and environmental impacts of motor transport, especially HDVs.</th>
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<td>Research Agenda</td>
<td>Conduct analysis and outreach to assess the opportunities, barriers, costs and benefits of HDV programs, and subsequently recommend a course of action for participating G20 countries.</td>
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</table>
TTG History
from 2014 to 2018

2014

- Founded: Australian G20 Presidency
- Research Agenda: Policies to reduce fuel consumption, air pollution, and carbon emissions from vehicles in G20 nations

2015

- Policy Exchanges: Continue policy exchanges over phone and webinar
- Research Agenda: Status of policies for clean vehicles and fuels in select G20 countries
- Energy Ministers Communiqué: Under the Turkey G20 Presidency, energy ministers agree to further support the work of the TTG

2016

- Research Agenda: Impacts of world class vehicle efficiency and emissions regulations in select G20 countries
- Deep Dive: 6 month in-depth webinar series on simulation modeling

2017

- Research Agenda: Status of policies for clean vehicles and fuels in select G20 countries
- World Class Standards: Under the China G20 Presidency, Energy Efficiency Leading Programme encourages G20 members to work toward given examples of world-class clean fuel and vehicle standards

2018

- Research Agenda: Status of policies for clean vehicles and fuels in select G20 countries
- 1st In-Person TTG Meeting: Argentina G20 Presidency
OBJECTIVES OF THE TTG DEEP DIVE IN 2018

Support voluntarily participating G20 TTG members to:

1. measure and certify HDV fuel consumption
2. design and implement HDV efficiency labeling programs and standards
3. tailor existing methodologies and simulation models (i.e. GEM and VECTO) to suit new regional contexts, avoiding the need for brand new methods
4. leverage G20 process to expand support for HDV efficiency programs

Example: Five key components need to be measured to provide inputs for simulation tools.
TransportPolicy.net provides comprehensive, up-to-date, and sourced information on energy and environmental regulations in the transportation sector worldwide, with a focus on vehicles and fuels.
WHERE TO NOW?

Technical Expertise?
- Behavior
- Technologies
- Fuels
- Systems
- Standards
- Governance
- Compliance

Knowledge Sharing?
- Topics
- Audience
- Format
- News/Updates

G20 Engagement?
- Scope
- Partnerships
- Visibility


01  Policy exchanges, G20, and Big Picture

02  Research Agenda

03  Deep Dive and Simulation Tools

BREAKOUT GROUPS