# Transport Detailed results Tables

## Introduction

The Transport Detailed Results Tablesprovide graphs and tables of the data behind the *Alternative Urban Development* and *Virtual Clean Car Race* scenarios for each APEC member economy.

The first two data sheets are graphs of the key variables for the *Alternative Urban Development* and *Virtual Clean Car Race* scenarios, respectively, along with the tables of the underlying numbers. At the top of each of these sheets is a drop-down menu which enables the user to select the APEC economy of interest or “All APEC”. Once an economy has been selected the graphs and tables within that sheet automatically switch to the selected economy. The graphs are the same as those included in the *Outlook 5th Edition* Economy Reviews of each APEC economy.

## The Data Sheets

A description of each data sheet is given below.

### **Graph Urban Planning**

This data sheet shows graphs and tables of the underlying numbers for the key variables in the four *Alternative Urban Development* scenarios: Business-as-Usual (BAU), High Sprawl, Constant Density and Fixed Urban Land. These scenarios are described in the *Outlook – 5th Edition* Chapter 5. The key variables are Vehicle Ownership, Light Vehicle Oil Use and Light Vehicle CO2 Emissions.

### **Graph VIRTUAL Clean Car Race**

This data sheet shows graphs and tables of the underlying numbers for the key variables in the four *Virtual Clean Car Race* scenarios: Business-as-Usual, Hyper Car, Electric Vehicles (EV), Hydrogen Fuel Cell Vehicles (HFCV) and Natural Gas Vehicles (NGV). These scenarios are described in the *Outlook – 5th Edition* Chapter 5. The key variables are Vehicle Ownership, Light Vehicle Oil Use and Light Vehicle CO2 Emissions.

### **Vehicle Ownership**

This data sheet shows the change in the total vehicle ownership per 1000 people (light and heavy vehicles) for each *Alternative Urban Development* scenario for each APEC member economy. As vehicle ownership in the *Virtual Clean Car Race* scenarios is unchanged from the BAU case, no data is presented for those scenarios.

### **Oil Use**

This data sheet shows the total oil use each year in the light vehicle fleet across both the *Alternative Urban Development* and *Virtual Clean Car Race* alternative scenarios for each APEC member economy. A table is provided for each scenario.

### **CO2 Emissions**

This data sheet shows the calculation of CO2 emissions for the light vehicle fleet across both the *Alternative Urban Development* and *Virtual Clean Car Race* scenarios for each APEC member economy. This calculation is broken into three elements, listed left to right. The first element is the indirect CO2 emissions from the production of hydrogen for use in hydrogen fuel cell vehicles. Thesecond element is the indirect CO2 emissions from the production of electricity for use in plug-in hybrid and fully electric vehicles. The final element is the CO2 emissions from the direct use of oil and natural gas in conventional vehicles and natural gas vehicles. Total emissions are the sum of all three elements.

### **Vehicle Sales Shares**

The upper table of this data sheet shows the total sales of light vehicles for the BAU scenario and the four *Virtual Clean Car Race* scenarios for each APEC member economy from 2009-2035. The BAU scenario and all four *Virtual Clean Car Race* scenarios have the same light vehicle sales. The middle table of this data sheet shows the sales share of alternative vehicles as a percentage of all light vehicle sales in the BAU scenario for each APEC member economy from 2009-2035. The lower table of this data sheet shows the sales share of alternative vehicles as a percentage of all light vehicle sales in the *Virtual Clean Car Race* scenarios. All four *Virtual Clean Car Race* scenarios have the same sales share of alternative vehicles.

### **Vehicle Fleet Shares**

This upper table of this data sheet shows the share of alternative vehicles in the light vehicle fleet in each economy for the BAU scenario for each APEC member economy from 2009-2035. The lower table of this data sheet shows the share of alternative vehicles in the light vehicle fleet in each APEC member economy from 2009-2035. All four *Virtual Clean Car Race* scenarios have the same share of alternative vehicles in the light vehicle fleet.