FOUR ASPECTS OF IMPLEMENTATION: monitoring progress

The fourth major aspect of implementation is monitoring progress. Between 2011 and 2013, focus was given to developing a method, identifying data sources and establishing a 2011 baseline for nearly all of Metro 2040’s performance measures. These measures allow us to monitor, assess and evaluate how we are progressing toward Metro 2040 goals with the aim of improving as we move forward.

Baselines have been established for the majority of Metro 2040 performance measures. Where possible, baselines were established for the year 2011; however, some baselines are based on late 2010 or early 2012 data. Measures with baselines that are not based on data from 2011 are more general in nature and are typically measured over a longer period of time (typically on a five-year basis) to observe major changes rather than yearly trends.

Where possible, a report on progress to 2013 is provided. Depending on the data source and availability, the report is provided either to year-end 2013, or to mid-year 2013 (end of June). For whatever time period a report is provided, either year-end or mid-year, it is merely a snapshot in time. Reporting will become more valuable in the long-term as trends can be better observed.

REFining performance measures

Through the process of developing this first annual report, it became clear that the measures identified in Metro 2040 serve different purposes. To better clarify the utility of the measures, they have been broadly categorized as either “tracking measures” (TM) or “performance measures” (PM), as explained on page 29. In this baseline report, each of the 55 measures has been categorized and further described with a note explaining the intent of monitoring and, in the case of performance measures, the preferred direction of change. As the utility and reliability of measures are reviewed, the measures may modified or further nuanced.

In collecting and analyzing the data, it also became apparent that some measures, due to data availability or the complex nature of the associated strategy, do not accurately depict progress. To improve this and future reports, potential “future measures” have been identified. Future measures may:

- replace measures that are not telling the full story;
- incorporate useful information based on new available data; or
- supplement existing measures to better provide an indication of how we are meeting the intent of the strategy.

DATA RELIABILITY

Many of the measures provided are based on Statistics Canada Census and National Household Survey (NHS) data which is available every five years. As such, many Metro 2040 measures may only be available on a five-year basis, with the 2016 Census data available in 2017-2018. Metro Vancouver will strive to identify alternative measures in the interim years to assist the annual monitoring and reporting process.

All data has limitations and should be carefully interpreted and used. The NHS was a volunteer survey that replaced the traditional
mandatory Census of Canada in 2011. The voluntary element of the new survey resulted in a much lower response rate, which is particularly evident in certain populations. This reduces the quality and reliability of the data, particularly at smaller geographic scopes. Consistent, reliable data is necessary to accurately monitor progress over time.

More detailed information about the data source or collection method for any measure can be provided by Metro Vancouver upon request.
METRO VANCOUVER 2040: SHAPING OUR FUTURE

PERFORMANCE MEASURES

The remainder of this report communicates progress in meeting Metro 2040 goals as prescribed in Metro 2040 Section G: Performance Measures.

NAVIGATING THE REPORT

The diagram to the right provides guidance for navigating Progress toward Shaping our Future. Each measure has a two page spread that provides information about where we’re coming from and where we’d like to go, a basic evaluation of progress to date, and detailed data and information.

The tracker on the upper left hand side of each page refers to the measure listed in Metro 2040 and, for reference, at the in the back of this report. Some measures were combined as they are most usefully analyzed together, others required a greater level of detail and were split into multiple spreads.

Unless otherwise noted, each measure includes baseline data, the 2040 intent or target and, where possible, a report to 2013. More detailed information about the methodology for any given measure can be provided by Metro Vancouver upon request.

Each measure falls under a strategy, each strategy under a goal (measures are listed at the back of this document for reference).

Performance measure as listed in Metro 2040 Section G and at the back of this report.

2011 BASELINE

- In 2010, buildings produced 5,388,042 tonnes of CO₂ (44% of the regional total)

- In 2010, on-road transportation produced 5,258,309 tonnes of CO₂ (47% of the regional total)

Source: 2010 Community Energy and Emissions Inventory

Note: The CEO includes only on-road transportation; other transportation modes are not evaluated.

REGIONAL GREENHOUSE GAS EMISSIONS (2010)

*permits industrial sources
**from burning, refining, agriculture and other sources

Greenhouse Gases

The principal greenhouse gases for which emissions have been estimated are carbon dioxide (CO₂), methane (CH₄), and nitrous oxide (N₂O).

Of the greenhouse gases, CO₂ is the primary contributor (70%) and has the most relevant implications for climate change.

2011 baseline data is provided to measure future progress against.
There are two types of measures, Tracking and Performance (see gray box to the right for more information). A summary of progress to date and Detailed data and information.

**TRACKING & PERFORMANCE MEASURES**

To better clarify the utility of each measure, they have been broadly categorized as “tracking measures” (TM) and “performance measures” (PM).

**Tracking Measures (TM):**
- Have no specific target identified in Metro 2040
- Are used to monitor long-term trends, particularly in relation to other measures and indicators
- Have year-to-year changes that may vary widely

**Performance Measures (PM):**
- Are associated with specific targets in Metro 2040 or a related Metro Vancouver plan or program
- Have a clear direction or target
- Have more consistent year-to-year changes

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**2040 TARGET**
- 33% reduction in greenhouse gas emissions below 2007 levels by 2023, and
- 80% reduction in greenhouse gas emissions below 2007 levels by 2050

**2013 REPORT**

- **What’s missing?**
  - This measure is dependent on the Community Energy and Emissions Inventory (CEEI), which assists local governments in British Columbia in tracking and reporting on community-wide energy consumption and greenhouse gas emissions and provides supporting indicators every two years.
  - 2012 Community Energy and Emissions Inventory data will be available for the next iteration of Progress Toward Shaping Our Future.

- **Also see...**
  - In addition to monitoring emissions for Metro 2040 objectives, Metro Vancouver implements and monitors the Integrated Air Quality and Greenhouse Gas Management Plan (2011), which establishes a baseline for sources of greenhouse gas emissions in 2010. Emissions are monitored and reported on in the annual Caring for the Air reports, available online at www.metrovancouver.org.

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For some measures, ‘future measures’ are identified to supplement or replace existing measures.

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