

How Metro is protecting our region's environment



REDUCING GREENHOUSE GAS EMISSIONS

Metro service displaces approximately 600,000 metric tons of carbon dioxide equivalent (MTCO₂e) each year. While Metro generates greenhouse gas emissions from the operation of its vehicles and facilities, the services we provide result in a net reduction of emissions by taking cars off the road, reducing congestion, and supporting more efficient land use.

600,000

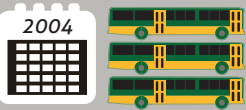
METRIC TONS OF CARBON
DIOXIDE EQUIVALENT
(MTCO₂E)



GREENHOUSE GAS
EMISSIONS FROM
AVERAGE CARS DRIVEN
1.4 BILLION MILES

LEADING THE NATION IN BUILDING A BUS FLEET THAT REDUCES EMISSIONS, SAVES ENERGY

Metro was the **first large transit agency in the nation** to purchase a fleet of articulated hybrid buses (in 2004).



25%

REDUCED
GREEN-
HOUSE
GAS
EMISSIONS



32%

HIGHER
FUEL
ECONOMY
THAN
METRO'S
DIESEL
BUSES

Metro is now purchasing new-generation hybrids with all-electric drive components and accessories. **While in service, the buses' engines can be completely cut off when there is no need for power.**

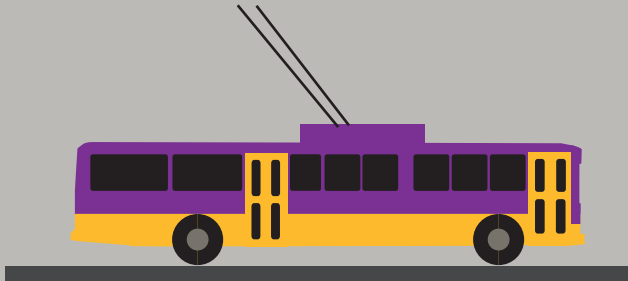
METRO'S NEW HYBRIDS
ARE UP TO

20%

MORE FUEL-EFFICIENT
THAN THE OLD HYBRIDS.



New all-electric, zero-emission, highly energy-efficient trolley buses are replacing Metro's aging trolleys.



Metro will soon be testing three fast-charge battery-electric buses. **These zero-emission buses can travel about 23 miles on a 10-minute charge.**



Today about **70%** of Metro's fleet is either hybrid or electric. Our fleet goal: **100-percent hybrid or electric by 2018.**



METRO ALSO...



INSTALLED 122 SOLAR-POWERED TRASH AND RECYCLING COMPACTORS AT BUS STOPS. The bins store more trash in less space, so trucks make fewer trips to pick up and empty them, reducing fuel consumption and emissions.



UPGRADED LIGHTING AT ALL FIVE DOWNTOWN SEATTLE TRANSIT TUNNEL STATIONS, reducing electricity use by 71%.



HAS 25 ALL-ELECTRIC, ZERO-EMISSION NISSAN LEAFs in the metropool program (part of Metro's commuter ridesharing service). They saved more than 30,000 gallons of gas and eliminated more than 300 metric tons of emissions in 2014.



USES REUSABLE ABSORBENT PADS IN VEHICLE MAINTENANCE SHOPS to soak up spills and reduce waste disposal.



REPLACED BUS GARAGE VENTILATION FANS AND EQUIPMENT at North Base to save about 2 million kWh and nearly \$150,000 per year.



INSTALLED ELECTRICAL AND GAS SUBMETERS AT TWO MAJOR CAMPUSES—South Base/Component Supply Center and East Base. These meters measure energy consumption in specific work areas, helping Metro identify energy reduction opportunities.



RECEIVED LEED GOLD CERTIFICATION FOR ATLANTIC/CENTRAL OPERATIONS BASE. Energy- and water-saving features include highly reflective roofing and paving, a vegetated wall that shades the west façade, native vegetation, low-flow water fixtures, natural daylighting, and a highly efficient HVAC system. More than 29% of the building materials are regionally harvested and manufactured materials, and 99.5% of demolition and construction waste was diverted from landfill for reuse or recycling.



RECYCLES OR REUSES 25 CATEGORIES OF MATERIALS, including scrap metals, paper and cardboard from parts shipping, hybrid bus batteries, waste oil and antifreeze, broken bus-shelter glass, and foam from passenger seating.

KEY RESULTS - 2009-2014

17%



REDUCED
NORMALIZED
ENERGY USE
AT METRO
FACILITIES

37%



REDUCED
WATER
USE

35%



REDUCED
SOLID
WASTE
DISPOSAL

13%



INCREASED
AMOUNT
OF WASTE
REUSED OR
RECYCLED

6%



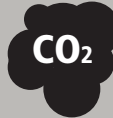
REDUCED
TRANSIT
FLEET
ENERGY
USE

54%



REDUCED
CRITERIA AIR
POLLUTANT
EMISSIONS

10%



REDUCED
GREENHOUSE-
GAS EMISSIONS



Metro was a founding signatory of the American Public Transportation Association Sustainability Commitment program. In 2013, Metro received **GOLD-LEVEL RECOGNITION** from APTA for significant reductions in energy, water use, and waste.