



Introducing Spokane's First Battery-Electric Bus

About City Line

City Line will be Spokane's first Bus Rapid Transit (BRT) route. It will be served by state-of-the-art, battery-electric buses.

City Line combines service frequency and efficiency in a modern streetcar-like experience. These electric vehicles will serve on the City Line's six-mile route between Spokane's historic Browne's Addition and Spokane Community College, connecting through downtown and the University District, including Gonzaga University, and ending at the Spokane Community College Transit Center, where an en-route vehicle charging station is located.

BENEFITS & FAQ

- Zero emission vehicles have greatly decreased noise levels and are environmentally-friendly.
- City Line will help STA determine if full-fleet electrification is a good fit for the Spokane region.
- City Line will connect neighborhoods and improve access to downtown Spokane.
- Decreased traffic congestion as well as increased street parking in Browne's Addition, downtown and the University District are expected outcomes.

How is a battery-electric bus charged?

The bus pulls electricity from the grid to store in its batteries. City Line buses have a battery pack of 320 kWh fast-charge batteries which will be recharged en-route at SCC.

How long does a charge last on a battery-electric bus?

Charge depletion depends on ambient temperature, road grade (hills), brake regeneration, number of passengers and traffic conditions. Because there is no one answer, STA is planning rigorous driver training and vehicle testing.

How long does it take to charge the bus?

Charging times depend on outside temperatures, but it is estimated that en-route charging would average 7 minutes.

What is the difference between en-route and overnight charging?

For en-route charging, drivers pull up to an overhead charging unit that connects with charging rails on the roof of the bus. This style of charging typically uses a high power charger, like the charger installed at SCC. Overnight charging is done manually by plugging a lower powered charging cable into the bus. This looks similar to refueling an automobile. The charger will automatically stop when the bus is fully charged.

What is the expected life span of the buses?

The Federal Transit Administration (FTA) requires electric buses to have a life of 14 years and/or 500,000 miles, just like diesel buses.

What is the cost of each bus?

\$1,322,932. They are paid for by the FTA Small Starts Grant of \$53.4 million, awarded to STA in 2020.

What is the expected fuel savings?

STA will see an estimated monthly savings of nearly \$200 per City Line bus over the cost of a diesel bus.

Why was the vehicle delivered so far in advance of City Line's 2022 start date?

To give STA's vehicle maintenance team and drivers adequate time for training.

How many battery-electric buses are being built for service on City Line?

10 custom-branded City Line battery-electric buses have been delivered

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