



Antelope Valley Transit Authority: All-In on Electric Buses

The **Antelope Valley Transit Authority** received big news in November 2014. The board that governs the AVTA decided that all buses in the fleet will be replaced by 2018 with electric buses. With \$39 million (USD) coming from Federal and State agencies to cover some cost, the AVTA will need to identify additional sources. In the end it is estimated to be 5-10 years before the full build-out.



The first of the new E-buses under the new mandate are set to enter service beginning in 2016. With this many E-buses in the fleet, infrastructure for charging requires novel approaches. As part of the funding, the AVTA will install 85 hard-wire stations for charging, but also up to 11 wireless charging stations. With this charging infrastructure in place, bus service should be seamless. In addition to the novel charging approach, the AVTA is also utilizing their solar array to power some of the chargers.

With a steep learning curve, having only received their first two E-buses in 2014, the AVTA is approaching the mandate with an all-hands on deck attitude. Working collaboratively with the local utility, AVTA is hoping to avoid future issues with energy supply. This includes the installation of 2 x 1200V lines to increase the electric capacity currently offered.

While the AVTA only has 200 employees, the small size has allowed them to respond quickly to the mandate.

For more information on AVTA's electric fleet follow:

www.avta.com/index.aspx?page=178

Visit us at: www.westcoastelectricfleets.com

QUICK FACTS

Current fleet includes

- 30 x 14m (45ft) commuter coaches
- 45 x 12m (40ft) transit buses

Range per full charge

- BYD: 200-320km (125-200mi)

Mandate to convert to 100% E-buses by 2018

Future E-Bus purchases

- 14 x 18m (60ft) articulated buses
- 30 x 14m (45ft) commuter coaches
- 36 x 12m (40ft) transit buses

Annual Statistics

- 3.6 million riders
- 4.5 million km (2.8 million mi)

Will be the first fully electric bus fleet in the US

Proud partners of West Coast Electric Fleets, an initiative of the Pacific Coast Collaborative.



Plug in BC



Fraser Basin Council