



Rogue Valley Transportation District

A Case Study in CNG

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Dec. 14, 2010

About Rogue Valley Transportation District

- Located in Medford, OR
 - Operates 23 coaches
 - *15 CNG coaches + 8 Diesel coaches*
 - Travels 650,000 miles a year
 - Over 1,000,000 rides a year
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RVTD CNG Timeline

CNG stage:

“infancy”

“adolescence”

“adulthood”

1993

- Board chooses CNG as alternative fuel
- Approves 10 buses for purchase

1994

- Design & build CNG compression station with help from Avista

1995

- Took delivery of 10 new 29 foot CNG buses
- First OEM CNG transit coaches in US

1997

- Coaches repowered with Cummins Natural Gas engines
- Retired after 350,000 miles

2002

- Grant rec'd for 10 heavy duty CNG buses

2004

- Ten 35 foot Newflyer buses rec'd
- CNG technology comes into adulthood
- CPM is 0.644 over life of vehicle

2006

- Rec'd two 35 foot Newflyer buses powered by latest Cummins engine
- CPM is 0.668 over life of vehicle to date

2009

- Rec'd three 35 foot Newflyer uses with latest Cummins engine
- CPM to date is 0.606

2010

- Awarded grant to update current fueling facility
- Increased storage
- Larger compressors



A success story

- 17+ years in the making
 - Began on shaky ground
 - Partnerships critical to success—Avista, Cummins
Northwest, Veritech, IMW Atlas
 - CNG is a clean, reliable resource for almost any fleet
application
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Cost Comparisons

CNG fuel consumption and cost over live of vehicle type

Vehicle	Gallons	Cost	Avg	Miles	Buses
1995 Bluebird	379,672	\$419,098	\$1.10	1,648,426	10
2004 Newflyer	618,650	\$967,343	\$1.56	2,324,963	10
2006 Newflyer	74,765	\$120,961	\$1.62	273,664	2
2009 Newflyer	35,849	\$53,696	\$1.50	126,378	3

Diesel fuel consumption and cost since 2004

Vehicle	Gallons	Cost	Avg	Miles
Diesel buses	257,155	\$516,383	\$2.01	1,223,517

Current Prices

- **CNG** = \$1.26 per gge w/o taxes
(includes \$0.03 per gallon maintenance reserve)
- **Diesel** = \$2.83 per gal w/o taxes

Average cost per mile to operate since 2004

- **CNG** = \$0.63
- **Diesel** = \$0.70

Questions?



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Thank You !
