

DC to AC Locomotive Modernization

Locomotives are the workhorses of the CN system powering over 500 train starts every day.

CN's modernization program is transforming 20+ year old assets and upgrading from Direct Current to Alternating Current, outfitting the upgraded locomotives with state-of-the-art technology.

- More cost effective than new-locomotive purchases
- Extending locomotive useful life
- Reducing operating cost
- Improving efficiency with ~5% less fuel burn
- Improving reliability with ~30% less shop events
- Improving pulling power with ~55% more tractive effort



Modernized locomotive:
Transformed into a state-of-the-art 4,400HP AC unit.

1,600+

total high-horsepower fleet

