South Dakota School of Mines & Technology

Zero Emissions Snowmobile

#E27



For the researchers:





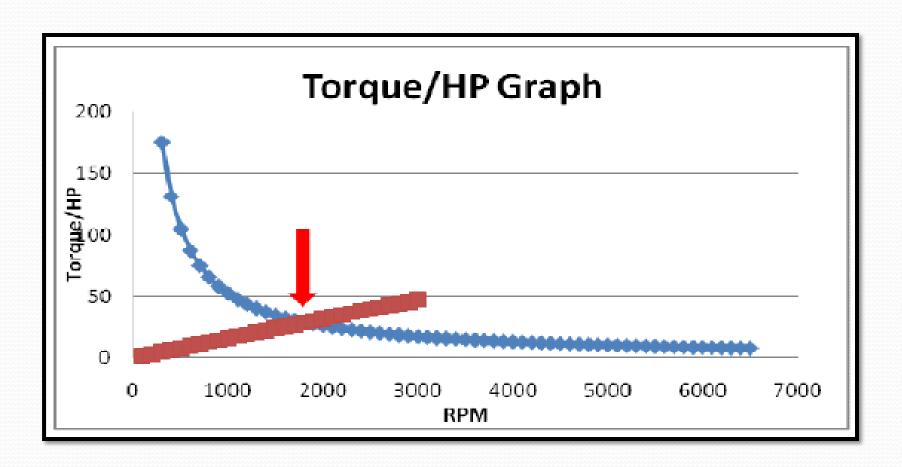
Features

- Pulling capability of more than 8oolbf.
- Feels like a stock snowmobile.
- Range of up to 20 miles.
 - 8 kW-h
 - Efficient 3-Phase AC Motor, EM-CVT.





Features





Features

- Safety Features
 - 1200 Lumen headlight has S.O.S. and Strobe features
 - Fuses protect all systems in the event of an electrical failure.
 - Tether, Kill Switch, Ground Fault, and loss of low voltage will turn off the snowmobile.



Environmental Impact

- All electric snowmobile means no pollutants.
 - LiFe-Po4 batteries have a long life-cycles and are more stable than other battery types.
- Reused parts
- Few additional parts

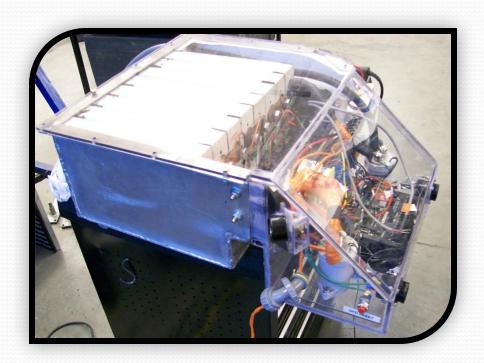


What about the mechanics?





- Two battery packs
 - Easy to lift and remove
 - Connections and BMS system are easy to see

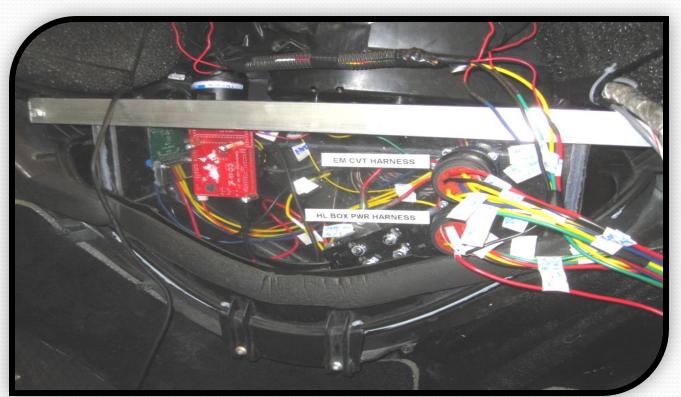








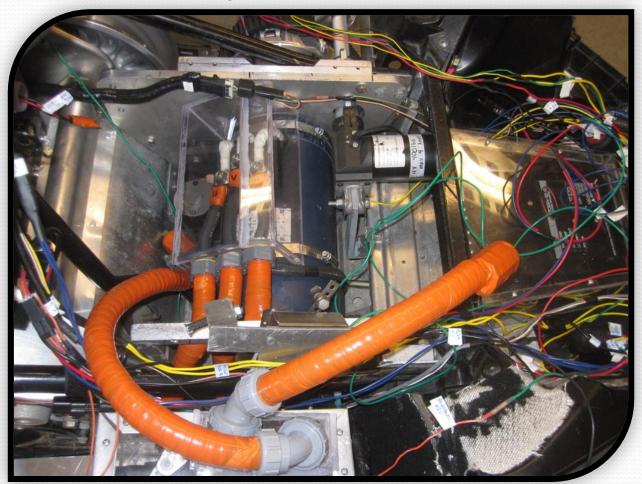
- Wiring
 - Clear wiring schematic
 - Labeled and color coded













Questions?



