Electric Snowmobile

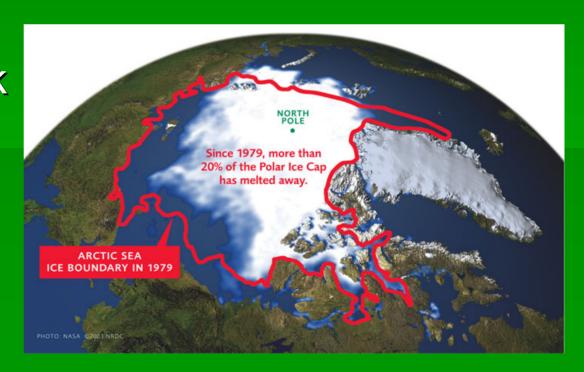
Clarkson University
Electric Knights
SPEED Team

Outline

- Needs of Consumers
- Performance
- Environmental Impact
- Production Design
- Conclusion

Consumer Needs

- Lowest environmental impact
- Electric Power ≠ Less Power
- Reliability
- Classic Look



Motor Performance

- 34kW 3-phase AC Induction Motor
- Capable of moving 2800lbs
- 92.5% Efficient



Battery Performance

- 24 NiMH battery packs
- Charge in parallel
- Discharge in series
- Relays
- Battery Box



Environmental Impact

- Zero Emission
- Zero Engine Noise
- Rechargeable Batteries
- Renewable Power Sources



Production Design

- Motor Mount
- Controller Mount

Production Design (Con't)

- Battery Box
- Wiring & Fusing

\$ Production Costs \$

Part	Cost	Labor (Hours)
Chassis		
Motor & Controller		
Mounts		
Batteries		
Battery Box		
Relays		
Wire & Fuses		
Total		

Conclusion

Any Questions?

References

- http://www.wnfm.com/New%20files/Hoover%20Dam%20%20Pictures.htm
- http://www.tranism.com/weblog/archives/2006/07/