The SOFC/FCS appears to outperform HTPEM FCSs in (1) Availability ($A_e$) & (2) Performance at Rated Value (PRV).

**Summary Conclusions**

Conclusions

- Transient efficiency remains high for high turndowns. At ~80% turndown (640 W), transient efficiency is ~4% for all four FCSs on 2 test dates.

Conclusions

- The SOFC FCS appears to outperform HTPEM FCSs in (1) Availability ($A_e$) & (2) Performance at Rated Value (PRV), as well as electrical efficiency (~60% vs. ~33%).

**CO2 Emission Factor vs. Time - SN1733**

Conclusions

- The SOFC demonstrates a lower CO2 Emission Factor (~0.33 kg CO2/Whe) than both coal power plants and combined cycle gas turbine power plants.