Hydro Peaking vs. Energy

RAAC Technical Committee
February 12, 2015
Typical 2-Hour Peak vs. Regional Energy for January

\[ y = -9E-06x^2 + 0.4582x + 19872 \]
\[ R^2 = 0.6575 \]
Sustained Peaking for 2, 4 and 10 Hours vs. Regional Energy

Peaking Capability (MW) vs. Regional Energy (MWA)

- 2-Hour
- 4-Hour
- 10-Hour
The reworked TRAP model generally results in slightly higher peaking capability and lower minimum generation.
Effects of INC and DEC Reserves on Hydroelectric Capability

DEC and INC both tend to flatten hydro generating capability.
Comparison of TRAP Output
(For Illustration Only)
Comparison of Sustained Peaking Calculations for October
Old TRAP, New TRAP, HOSS, RODS

Old TRAP Peak
Old TRAP Min
HOSS Peak
HOSS Min
New TRAP Peak
New TRAP Min
RODS Peak
RODS Min

System Energy

Mins and Peaks