



# CFPP HISTORY AND PROJECT STATUS

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# RATIONAL

Replacement of existing carbon fired generation with non-carbon sources,

Providing for future load growth needs, and

While assuring economical cost stability with high reliability and resiliency.

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# RESOURCE OPTION ANALYSIS

- 
- Natural Gas fired generation
    - GHG emissions
  - Solar & Wind
    - Off-peak capacity
    - Intermittent energy source
  - Storage
    - Short duration
    - Energy loss
  - Other

- Large reactors
  - 1,000+ MW
  - Transmission upgrades
  - Inflexible operation
- Small modular reactors
  - 300- MW
  - No transmission upgrades
  - Flexible operation

NUCLEAR



SITE

# NUCLEAR REGULATORY COMMISSION

- Design Certification
  - Technology
- Combined Construction and Operating License
  - Site characterization
  - Construction process
  - Operating procedures

# CONTRACTS

- Power Sales Contract between UAMPS and each of the Participants,
- U.S. Department of Energy Multi-Year Award between UAMPS and the DOE,
- Development Cost Reimbursement Agreement between UAMPS and NuScale, and
- Engineering, Procurement and Construction (EPC) Development Agreement between UAMPS and Fluor Corporation.

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# CONCLUSION

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- Carbon Free Power Project provides a
    - Dispatchable capacity & energy source
      - Ramp 20% to 100%
      - Permutations of 12 generators
    - Green house gas hedge
      - Avoids restrictions and penalties associated with GHG
      - At cost of fossil fuel generation
    - Long term stability
      - Up to 60 years per NPM
      - Over 100 years BOP
      - Stable rates
        - 40 year LCOE @ \$55/MWh