battery backup vs. gas generator

Refer to the chart below for a comparison of battery backup versus a conventional generator, including a review of factors like cost, fuel supply, size, features, and maintenance.

**Tesla Powerwall 2**
- Size: 13.5 kW
- Cost: $14,900 installed
- Fuel source: solar / electric
- Fuel consumption: none
- Voltage: 120/240 single-phase
- Surge watts: 7,000 peak
- Rated Amps: 30 Amps
- Decible rating: 0
- Transfer switch: automatic
- Warranty: 10 years
- Rechargeable from solar: yes
- Monitoring app: yes
- Indoor/outdoor: either
- Maintenance: none
- Tax credit: -$3,630
- State rebate: -$2,800
- 10-yr operating costs: $0
- 10-yr energy savings: -$6,670

**Total adjusted est. 10-year cost of ownership:** * $1,800

**Gas Generator**
- Size: 13kW
- Cost: $8,000 installed
- Fuel source: LP, natural gas, diesel
- Fuel consumption: 1.6 gal / hr
- Voltage: 120/240 single-phase
- Surge watts: 13,000 peak
- Rated Amps: 54.2 Amps
- Decible rating: 65
- Transfer switch: automatic
- Warranty: 5 years, 2,000 hour limited
- Rechargeable from solar: no
- Monitoring app: some models
- Indoor/outdoor: outdoor only
- Maintenance: yearly
- Tax credit: NO
- State rebate: NO
- 10-yr operating costs: $1,300
- 10-yr energy savings: $0

**Total adjusted est. 10-year cost of ownership:** **$9,300**

*Total adjusted est. lifetime cost based on adding solar for 100% energy offset, and a single Powerwall. Does NOT take into consideration inflation, or any increase/decrease in grid energy rates, which would likely increase the peak shaving savings.

**Total adjusted est. lifetime cost, assuming the generator continues to run for five additional years beyond warranty expiration, with no service or repairs needed beyond regular maintenance.