



Del Norte County Office of Education & Unified School District

Board Workshop
Energy Efficiency
& Sustainability



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22
2026



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Vice President, West Division



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*CA Government Affairs &
Community Development*

We Believe...in Students 1st

SitelogIQ conducted the Preliminary Feasibility Study for DNCOE & all DNUSD Schools [13 Total Sites]

- ☀ Solar Power Generation
- ☀ Lighting-Learning Environment Improvements
- ☀ HVAC/Boiler Systems Upgrade
- ☀ Long-Term Operations & Maintenance Savings
- ☀ Utility Savings & Project Budget

- ✓ *Reduce Utility Costs + O&M*
- ✓ *Reduce Demand on Grid*
- ✓ *Improve District Infrastructure*
- ✓ *Deliver Sustainability & Resiliency*



Addressing Current Challenges:



Cost of Electricity Continues to Rise (44% since 2023), while Reliability Decreases



Cost of Construction in California has Escalated 24% Annually for the Past 3 Years



Cuts to the General Fund for K-12, the Governor's Budget Anticipates another Statewide Deficit



**State Mandates for Modernization (Solar, Battery, EV)
LEVERAGE Modernization Funding**

Energy Conservation Measures:

Solar, EV, HVAC,
Lighting & Controls



Clean Energy/Solar Production=Meet the District's Energy Demand

- Save Money by Generating Energy
- Increase Grid Independence & Energy Storage*

Lighting, HVAC & Controls are well beyond their useful life, with outdated and costly systems that need to be replaced and modernized

- Improve/Upgrade Lighting & Controls throughout all campuses
- Replace or Upgrade failing HVAC/Boilers/Propane Units*
- Future Proof Now for Escalating Costs and Sustainable Budgets Long-Term

* Projects Recommended For Phase 2/Community Microgrid.

DNCOE Is Prioritizing Rural Schools!

Rising Utility Costs & Reliability Dropping

CA communities are at the greatest risk with aged infrastructure, impacted by wildfire/storm damage & outages, lacking renewable energy and sustainable funding for the future



Improved Learning Environment



Energy Savings Pay for the Projects, Self-Funded



Reduced Operating Costs & Maintenance



Enhanced Reliability of Operations = School Days



Compliance with State Mandates



Energy Analysis



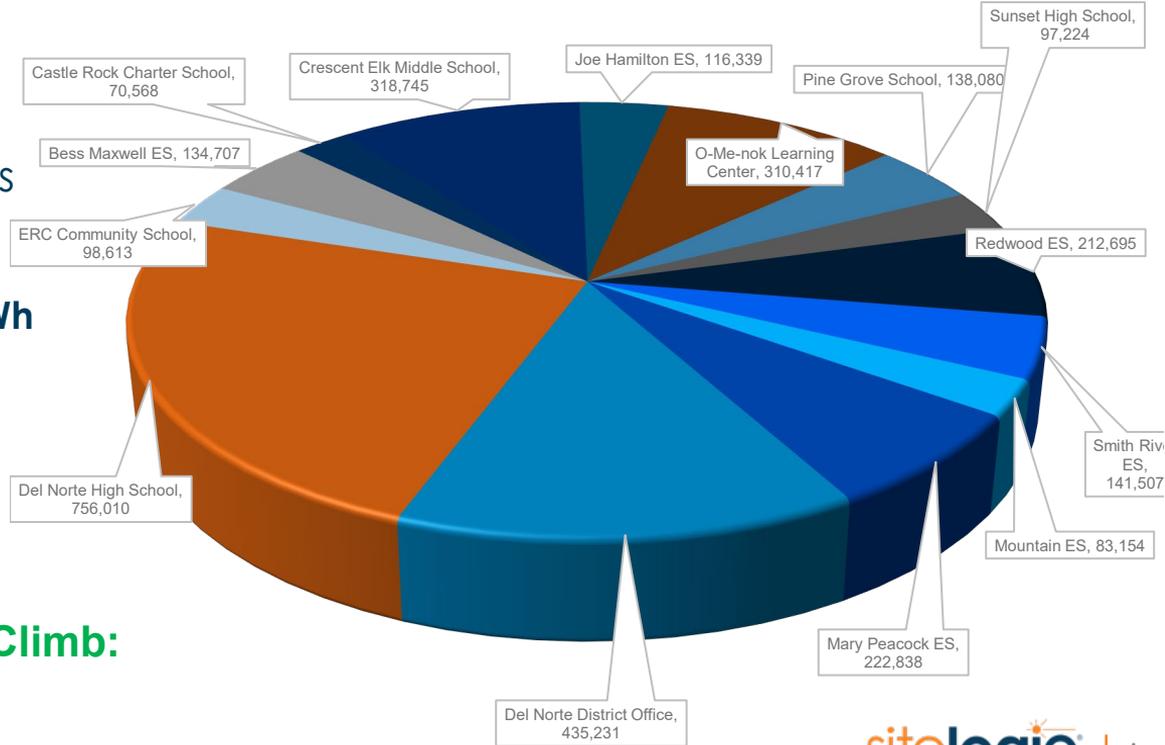
Annual Utility Costs Increased to Over \$780,000

13 Campuses + the DNCOE Office

➤ Over 20 Pacific Power Meters

☀ Annual Usage currently 3,136,128 kWh

☀ Blended Cost \$0.2488/kWh



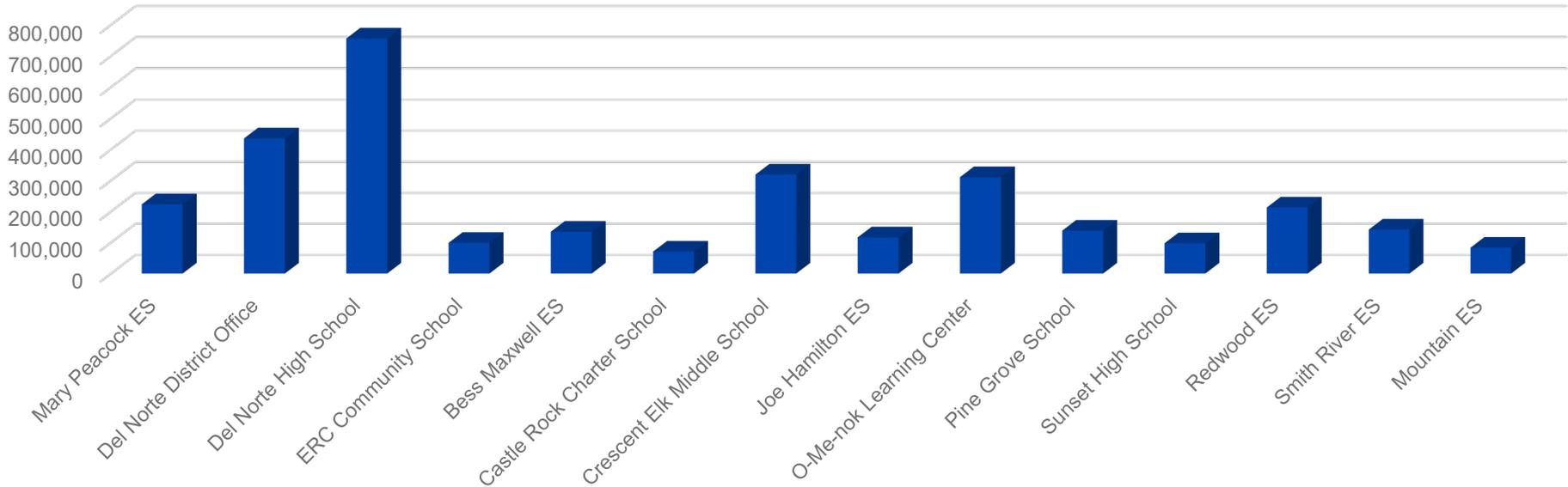
Goal: Operational Sustainability
Utility Rate Increases Continue To Climb:
 2022 21% Increase, 2023 12.9% Increase,
 9.8% Rate Increase in 2025



Energy Analysis



Annual Utility Usage kWh per Location





CENTRALIZED DNCOE PHASE 1 SOLAR

1. Office of Education District Office*
2. Del Norte High School*
3. Two Trees Healthy Start Center*
4. Bess Maxwell ES*
5. Castle Rock Charter*
6. ERC Community School*

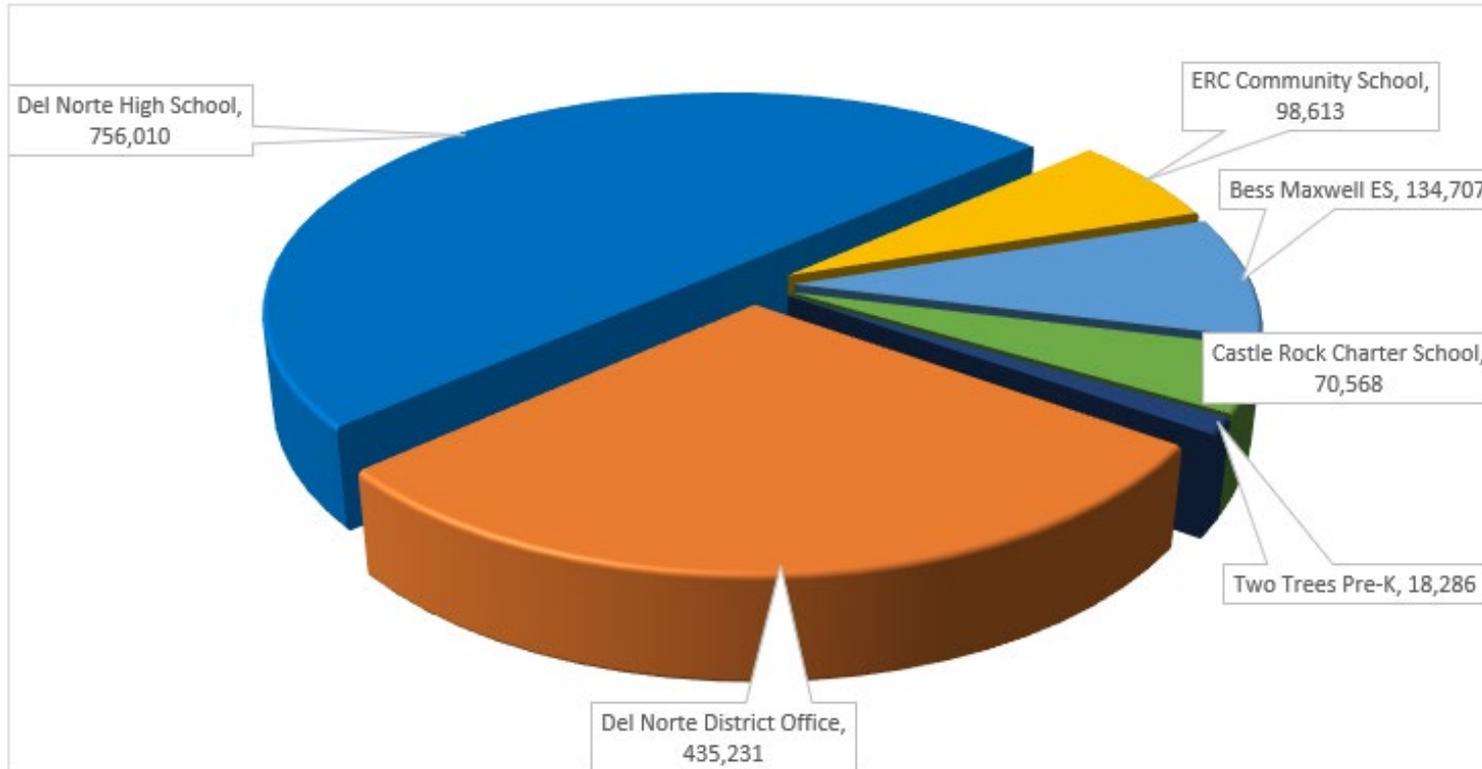
Annual Usage (kWh)	Annual Cost
1,513,415	\$349,817

*6 Campuses Using Aggregated Solar





Energy Analysis: Centralized DNCOE Baseline

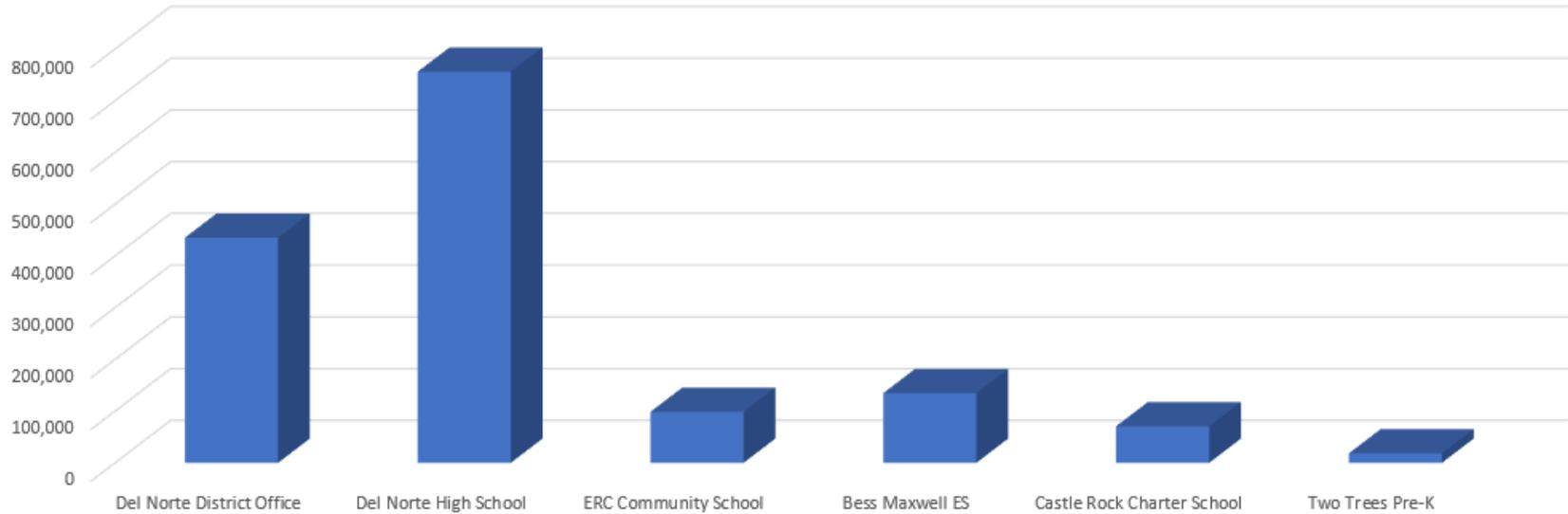




Energy Analysis: Campus Baseline



Pacific Power Annual Utility Usage kWh per Location

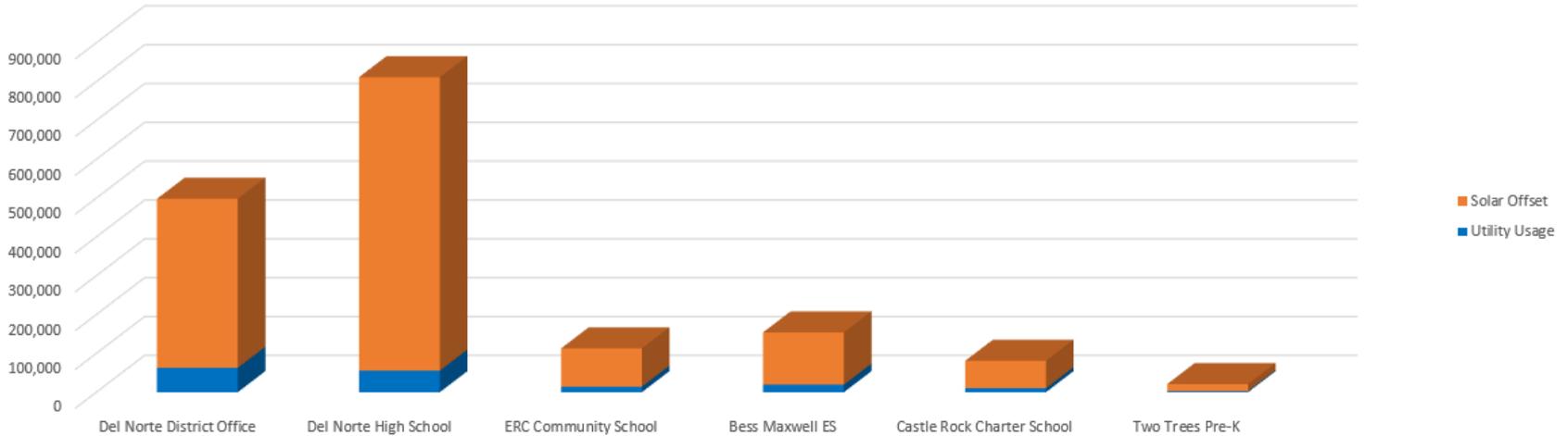




Energy Analysis: Comparison



Pacific Power Annual Utility Usage kWh per Location





Sample Solar PV Design

Centralized
DNCOE
Phase 1
Solar Project



HelioScope





LIGHTING-LEARNING ENVIRONMENT IMPROVEMENTS

SITE NAME	QUANTITY
Office of Education District Office	33
Pine Grove ES	83
Del Norte HS	605
Sunset HS	23
Castle Rock Charter	6
Bess Maxwell ES	3
Two Trees Pre-K	10

SITE NAME	QUANTITY
Mary Peacock ES	42
'O-Me-nok Learning Center	8
Joe Hamilton ES	23
Crescent Elk MS	195
Mountain School	34
Smith River School	23
Redwood School	5

Total Fixture Replacement – 1,093



Del Norte Unified School District
Equipping Students for Success



PROPOSED PROJECT BUDGET

Centralized DNCOE Phase 1 Solar Project

Solar Generation

\$4.5MM

Lighting-Learning Environment
Improvements

\$431k

District Controlled Contingency

\$150k

TOTAL PROJECT

\$5.1MM

First Year ITC

\$1,094,799

30 Year Net Annual Savings

\$4,392,173



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PROJECT CASHFLOW

Year	Annual Loan Payment	Solar O&M	Incentive, Cash, & Grant Contributions	Avoided Cost Savings	Annual Project Energy Savings	Net Annual Savings	Cumulative Savings
0	\$ -		\$ -	\$ 35,917	\$ -	\$ 35,917	\$ 35,917
1	\$ 349,434	\$ 21,510	\$ -	\$ 36,994	\$ 207,589	\$ (126,361)	\$ (90,444)
2	\$ 349,434	\$ 22,155	\$ 1,094,799	\$ 38,104	\$ 217,198	\$ 978,512	\$ 888,068
3	\$ 349,434	\$ 22,820		\$ 39,247	\$ 227,253	\$ (105,754)	\$ 782,314
4	\$ 349,434	\$ 23,505		\$ 40,425	\$ 237,773	\$ (94,740)	\$ 687,574
5	\$ 349,434	\$ 36,315		\$ -	\$ 248,781	\$ (136,967)	\$ 550,607
6	\$ 349,434	\$ 24,936		\$ -	\$ 260,300	\$ (114,070)	\$ 436,537
7	\$ 349,434	\$ 25,684		\$ -	\$ 272,351	\$ (102,766)	\$ 333,771
8	\$ 349,434	\$ 26,455		\$ -	\$ 284,962	\$ (90,927)	\$ 242,844
9	\$ 349,434	\$ 27,248		\$ -	\$ 298,156	\$ (78,525)	\$ 164,319
10	\$ 349,434	\$ 42,099		\$ -	\$ 311,963	\$ (79,570)	\$ 84,749
11	\$ 349,434	\$ 28,908		\$ -	\$ 326,409	\$ (51,933)	\$ 32,816
12	\$ 349,434	\$ 29,775		\$ -	\$ 341,524	\$ (37,684)	\$ (4,868)
13	\$ 349,434	\$ 30,668		\$ -	\$ 357,340	\$ (22,761)	\$ (27,629)
14	\$ 349,434	\$ 31,588		\$ -	\$ 373,890	\$ (7,132)	\$ (34,762)
15	\$ 349,434	\$ 48,804		\$ -	\$ 391,206	\$ (7,031)	\$ (41,793)
16	\$ 349,434	\$ 33,512		\$ -	\$ 409,325	\$ 26,379	\$ (15,414)
17	\$ 349,434	\$ 34,517		\$ -	\$ 428,284	\$ 44,333	\$ 28,920
18	\$ 349,434	\$ 35,553		\$ -	\$ 448,122	\$ 63,136	\$ 92,055
19	\$ 349,434	\$ 36,619		\$ -	\$ 468,890	\$ 82,827	\$ 174,882
20	\$ 349,434	\$ 56,577		\$ -	\$ 490,600	\$ 84,589	\$ 259,471
21	\$ 349,434	\$ 38,849		\$ -	\$ 513,327	\$ 125,044	\$ 384,515
22	\$ 349,434	\$ 40,015		\$ -	\$ 537,108	\$ 147,659	\$ 532,173
23	\$ 349,434	\$ 41,215		\$ -	\$ 561,991	\$ 171,342	\$ 703,516
24	\$ 349,434	\$ 42,452		\$ -	\$ 588,029	\$ 196,143	\$ 899,658
25	\$ 349,434	\$ 65,588		\$ -	\$ 615,273	\$ 200,252	\$ 1,099,910
26	\$ -	\$ 45,037		\$ -	\$ 643,782	\$ 598,744	\$ 1,698,654
27	\$ -	\$ 46,388		\$ -	\$ 673,612	\$ 627,224	\$ 2,325,878
28	\$ -	\$ 47,780		\$ -	\$ 704,826	\$ 657,046	\$ 2,982,924
29	\$ -	\$ 49,213		\$ -	\$ 737,488	\$ 688,274	\$ 3,671,198
30	\$ -	\$ 50,690		\$ -	\$ 771,664	\$ 720,974	\$ 4,392,173
Totals	\$ 8,735,842	\$ 1,106,474	\$ 1,094,799	\$ 190,686	\$ 12,949,004	\$ 4,392,173	\$ 4,392,173

- Notes
1. SitelogIQ is not a Municipal Financial Advisor and this tool is used to confirm if the proposed project is Budget Neutral or better in compliance with CA Govt. Code 4217.
 2. Cash Flow is based on a Preliminary Analysis using rough order of magnitude budgetary estimates and other standard assumptions. Final analysis and results may vary.
 3. This cash flow should not be considered a proposal.
 4. Total Project Cost include 2% for soft costs.





ROADMAP TO EFFICIENCY



**Time-Sensitive
\$1,000,000
Federal Funding**



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Equipping Students for Success

Key Takeaways:



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**State Mandates for Modernization (Solar, Battery, EV)
LEVERAGE Modernization Funding**

SitelogIQ would be honored to serve DNCOE!
*Energy Generation, Sustainability & Resiliency Projects,
Leading the Community Closer to Energy Independence & Resiliency!*



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Thank You!