LPEA Power Supply Strategy

Power Supply Town Hall
September 14, 2026

Agenda

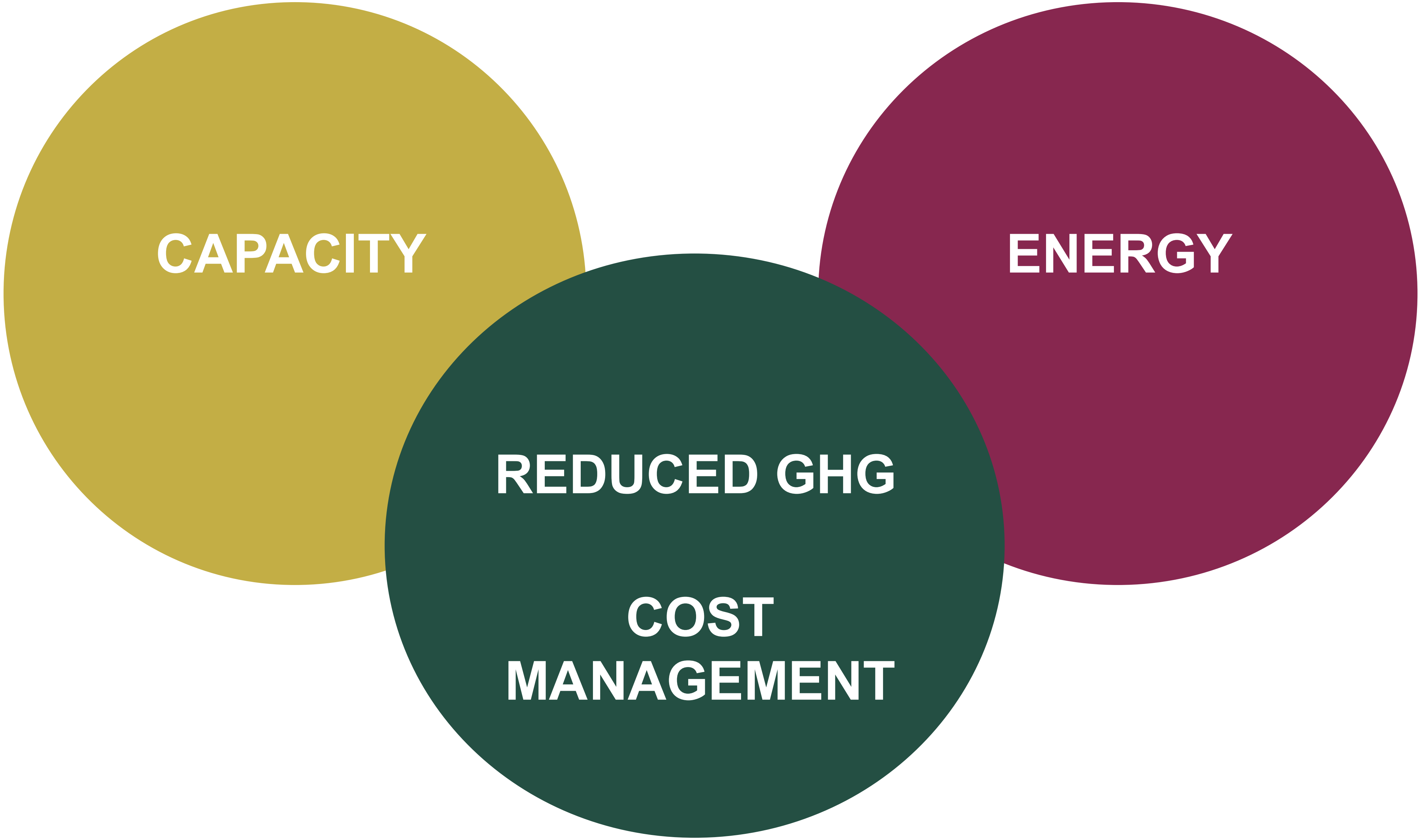
- Power Portfolio Fundamentals
- Analysis, Input & Assessment
- Power Supply Deliverables
- Member Feedback with Q&A

Strategic Goal

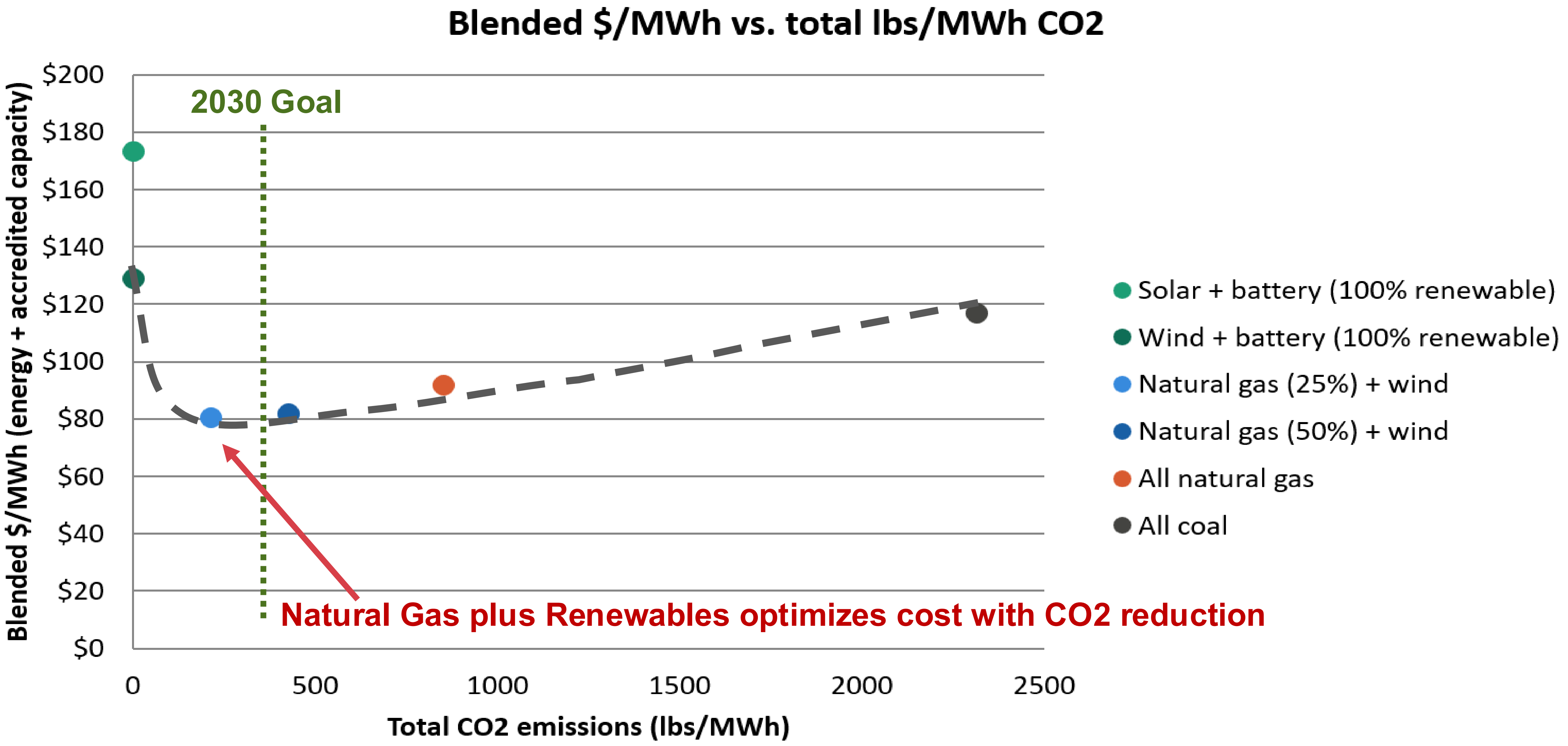
Our members will, on average, pay less for electric service than 70% of Colorado cooperatives, and by 2030 we will reduce carbon emissions by more than 80% from 2005 levels, surpassing state climate goals.

LPEA

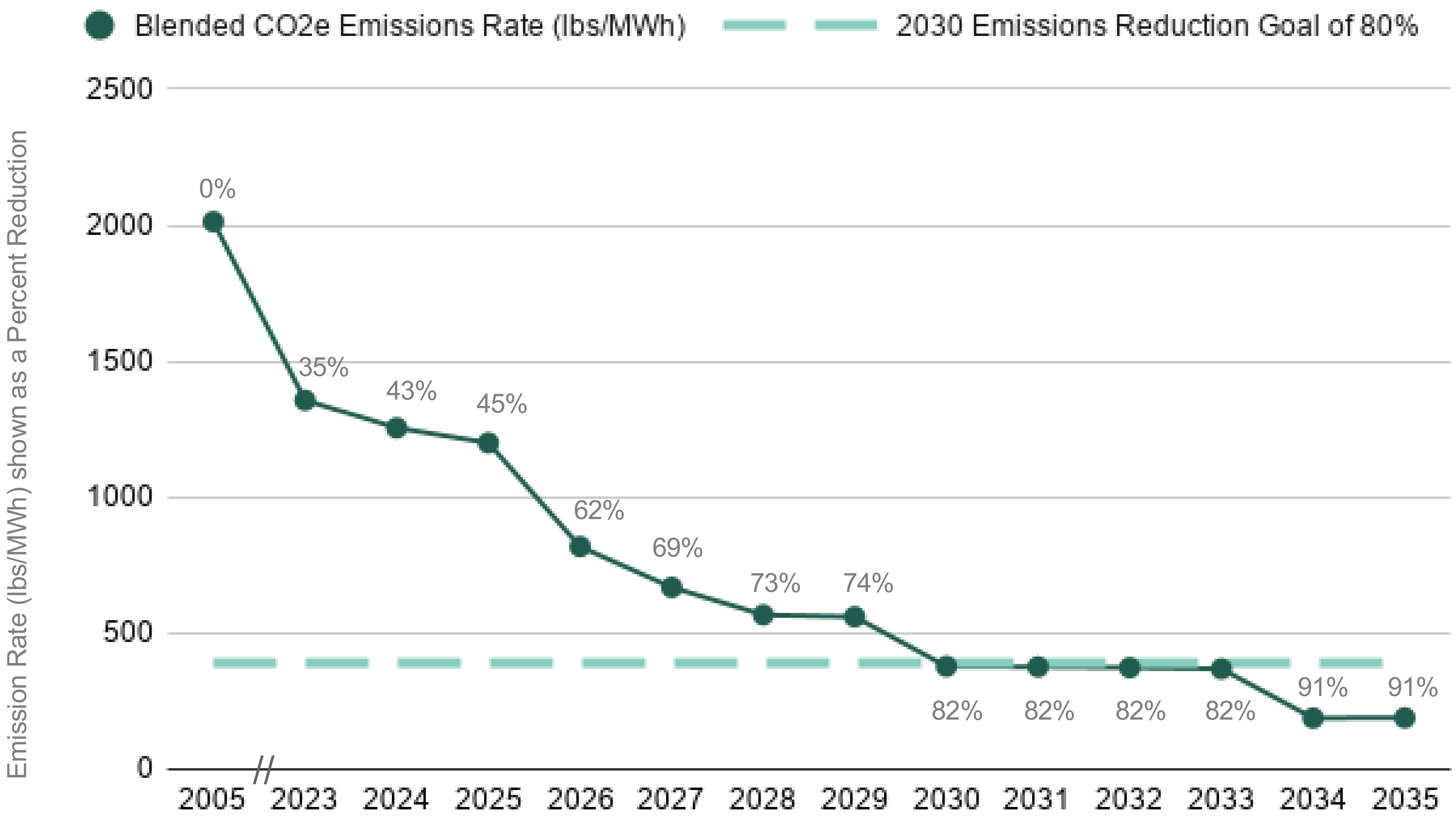
Power Portfolio Fundamentals


CAPACITY
ENERGY
REDUCED GHG
COST MANAGEMENT

Optimizing Costs and Emissions

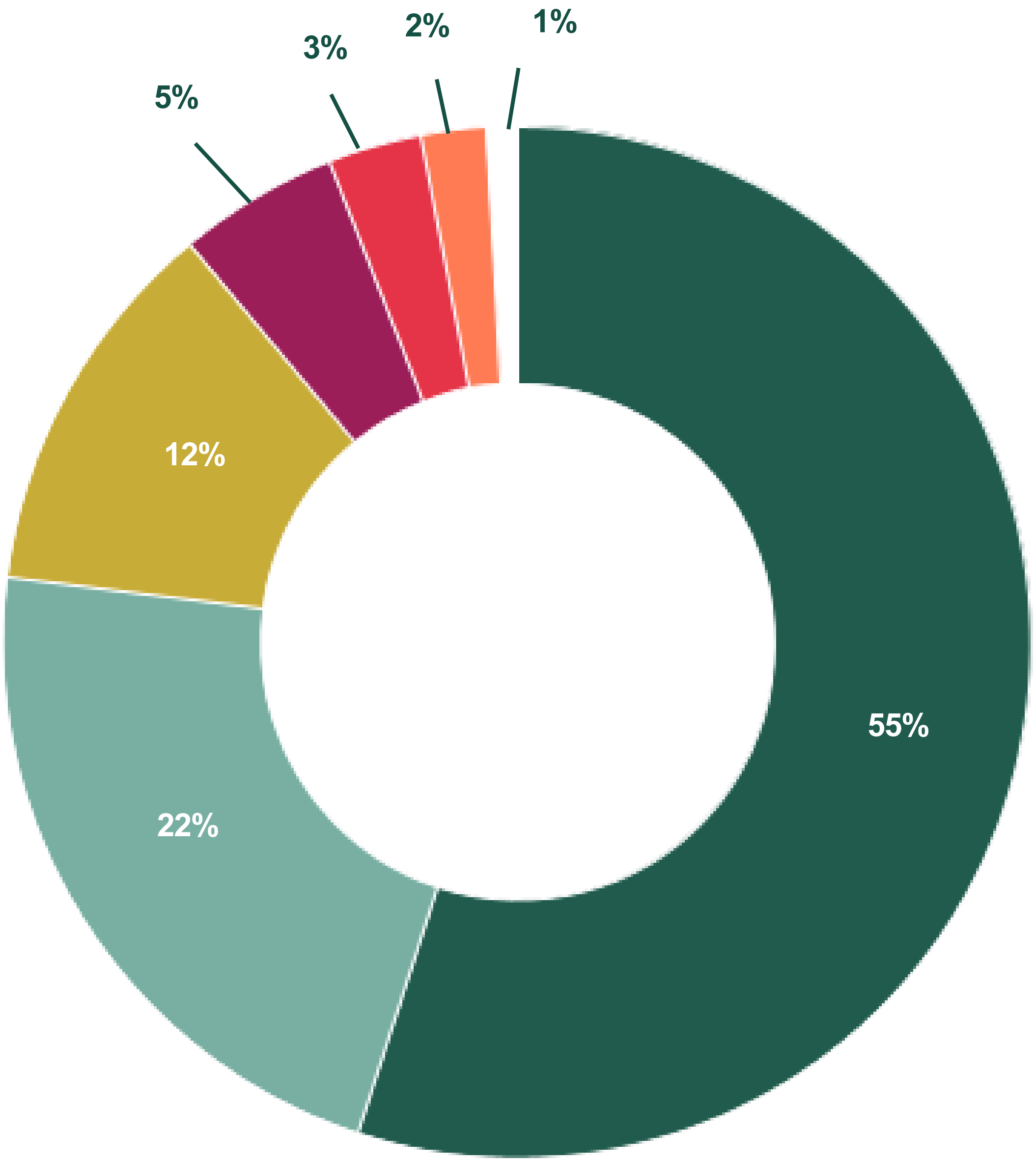


Emission Reduction Forecast



Regional Power Supply Today

- Mercuria (Energy Manager)
- Tri-State Firm
- Tri-State Dolores Canyon Solar
- Waste Heat Recovery
- Rooftop Solar
- Vallecito Hydro
- Community Solar



(% of MegaWatt Hours)

Power Supply for Tomorrow

- 450 MWh of energy
- 130 MW of accredited capacity
- Continue GHG reduction efforts
- Maintain LPEA's affordability among Colorado co-op peers

Power Supply Guiding Principles

1. Achieve cost and greenhouse gas reduction goals set by LPEA Board of Directors.
2. Ensure that LPEA can comply with SPP market rules for reliability and resource adequacy.
3. Pair highly reliable, quick response resources with variable, cleaner renewable resources.
4. Start building storage and prepare for additional storage and distributed resources that can smooth out daily and seasonal peaks.
5. Design a portfolio that provides most of the members' forecasted needs over time, yet leaves room to accommodate new and improved renewables, storage, and transmission technologies.

Analysis, Input & Assessment

Key Power Supply Milestones

March 2024 – Board of Directors voted to leave Tri-State

September 2024 – Entered Bridge Power Agreement with Mercuria

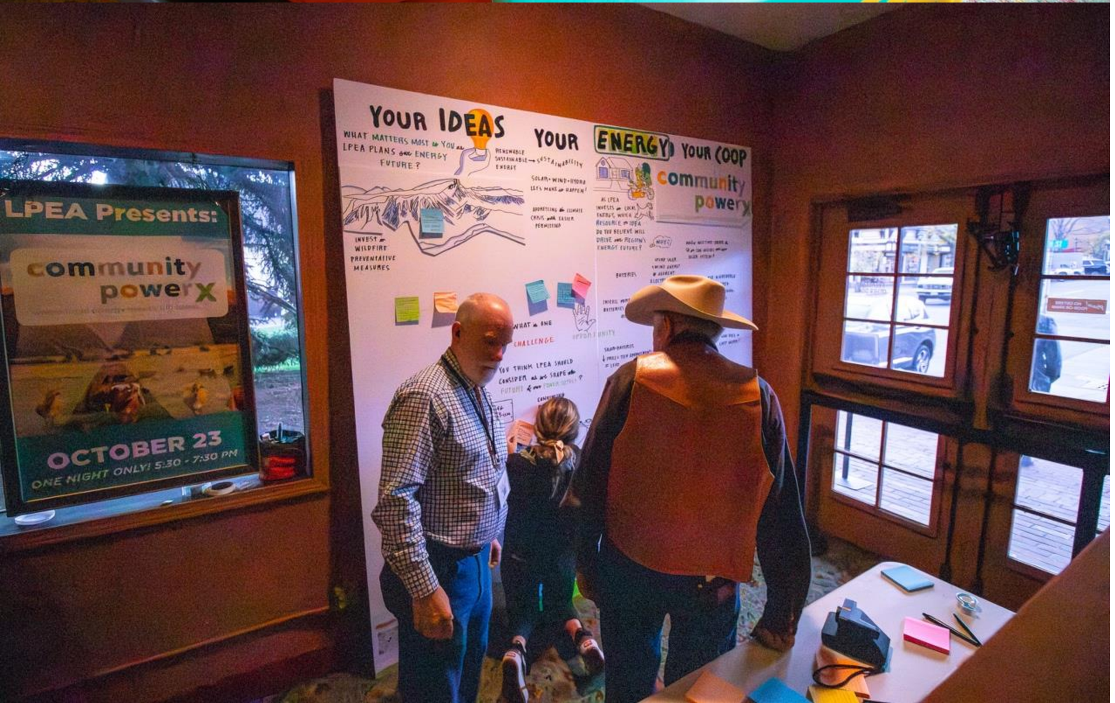
October 2024 – Energized Sunnyside Community Solar

November 2024 – Executed term sheet with Tri-State

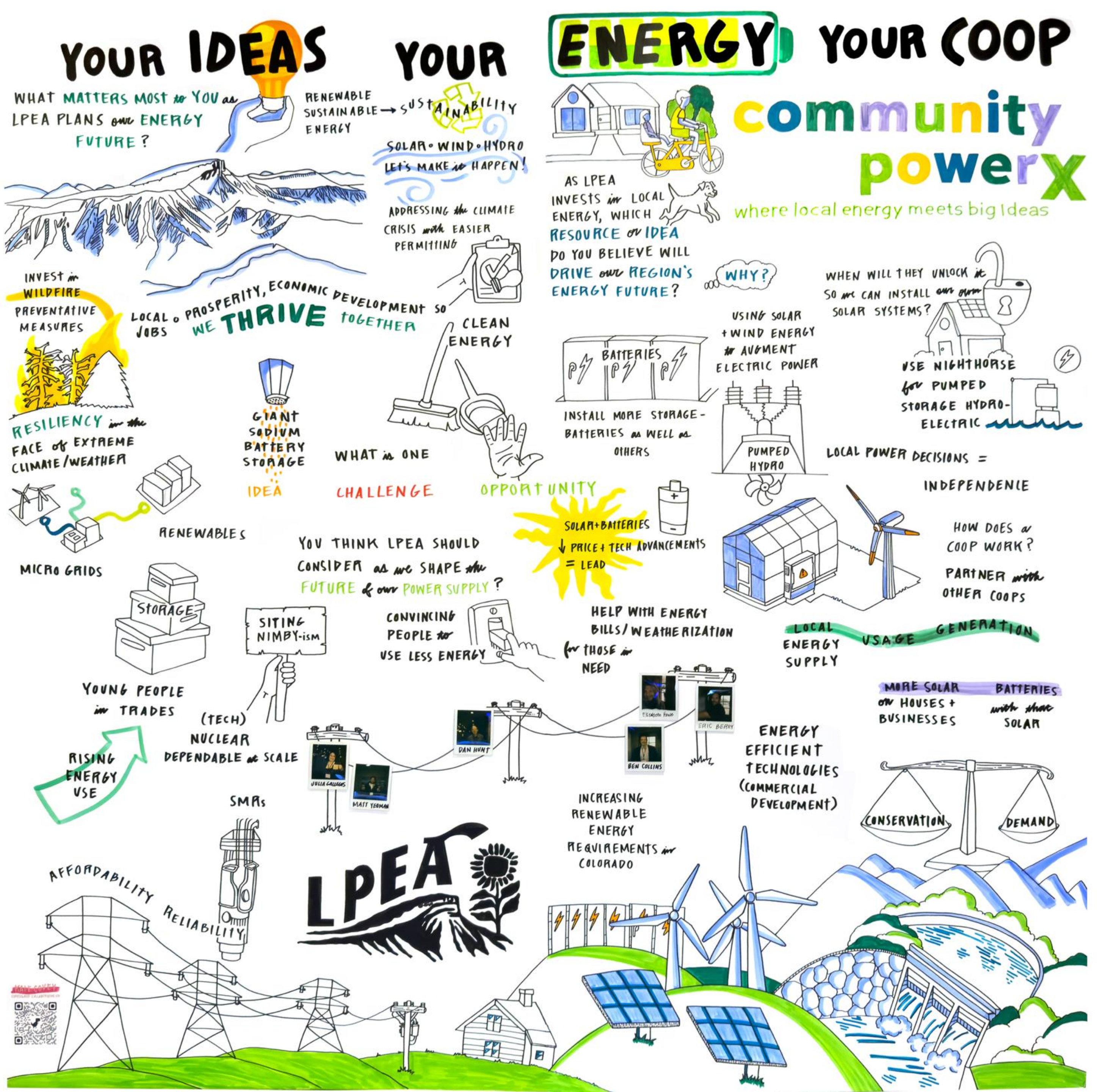
January 2025 – Negotiated Tri-State PPA’s

March 2025 – Secured Bridge Power through Mercuria

Spring 2025 to present – Sought to fill our remaining needs through an RFP process

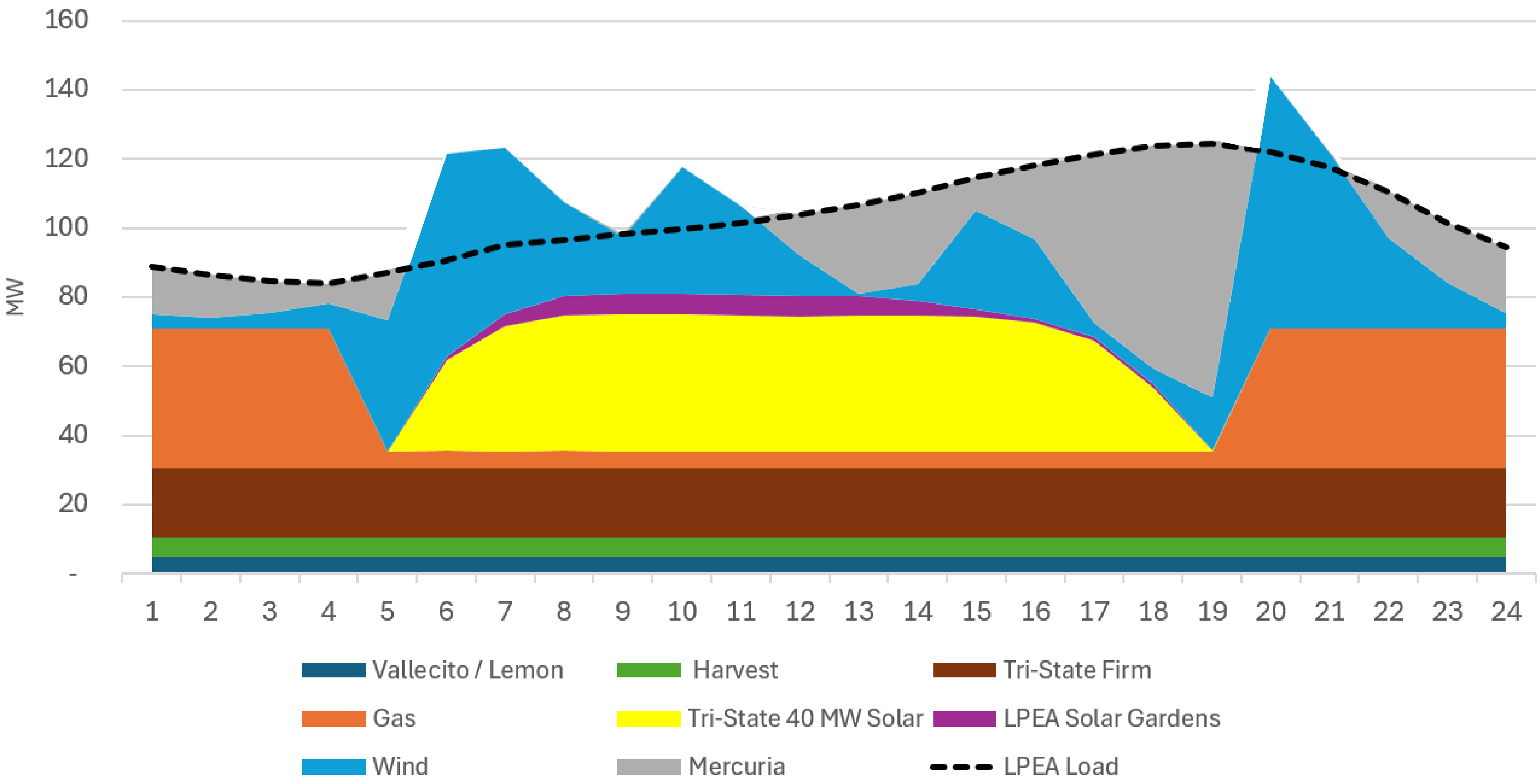


LPEA Presents:
community powerX
OCTOBER 23
ONE NIGHT ONLY! 5:30 - 7:30 PM



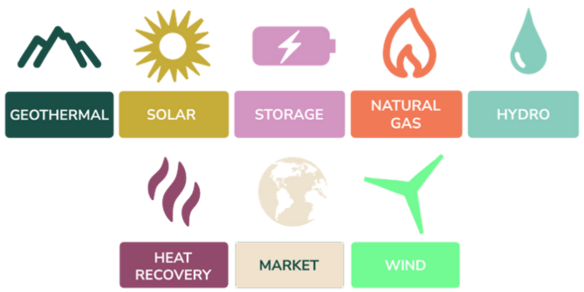
YOUR IDEAS YOUR ENERGY YOUR COOP
community powerX
where local energy meets big ideas
WHAT MATTERS MOST to YOU as LPEA PLANS our ENERGY FUTURE?
RENEWABLE SUSTAINABLE ENERGY → SUSTAINABILITY
SOLAR • WIND • HYDRO
LET'S MAKE it HAPPEN!
ADDRESSING the CLIMATE CRISIS with EASIER PERMITTING
AS LPEA INVESTS in LOCAL ENERGY, WHICH RESOURCE or IDEA DO YOU BELIEVE WILL DRIVE our REGION'S ENERGY FUTURE?
WHY?
WHEN WILL THEY UNLOCK it SO we CAN INSTALL our own SOLAR SYSTEMS?
INVEST in WILDFIRE PREVENTATIVE MEASURES
LOCAL JOBS • PROSPERITY, ECONOMIC DEVELOPMENT SO WE THRIVE TOGETHER
CLEAN ENERGY
USING SOLAR + WIND ENERGY to AUGMENT ELECTRIC POWER
BATTERIES
USE NIGHTHORSE for PUMPED STORAGE HYDRO-ELECTRIC
RESILIENCY in the FACE of EXTREME CLIMATE/WEATHER
GIANT SODIUM BATTERY STORAGE
IDEA
WHAT is ONE
CHALLENGE
OPPORTUNITY
INSTALL MORE STORAGE - BATTERIES as WELL as OTHERS
PUMPED HYDRO
LOCAL POWER DECISIONS = INDEPENDENCE
MICRO GRIDS
RENEWABLES
YOU THINK LPEA SHOULD CONSIDER as we SHAPE the FUTURE of our POWER SUPPLY?
SOLAR + BATTERIES
↓ PRICE + TECH ADVANCEMENTS = LEAD
HOW DOES a COOP WORK?
PARTNER with OTHER COOPS
STORAGE
SITING NIMBY-ism
CONVINCING PEOPLE to USE LESS ENERGY
HELP WITH ENERGY BILLS/WEATHERIZATION for THOSE in NEED
LOCAL ENERGY SUPPLY USAGE GENERATION
YOUNG PEOPLE in TRADES
(TECH) NUCLEAR DEPENDABLE at SCALE
MORE SOLAR on HOUSES + BUSINESSES
BATTERIES with that SOLAR
RISING ENERGY USE
DAN HUNT
JULIA GALLEGOS
MATT YEOMAN
BEN COLLINS
ERIC BERRY
ENERGY EFFICIENT TECHNOLOGIES (COMMERCIAL DEVELOPMENT)
SMRs
INCREASING RENEWABLE ENERGY REQUIREMENTS in COLORADO
CONSERVATION
DEMAND
AFFORDABILITY
RELIABILITY
LPEA

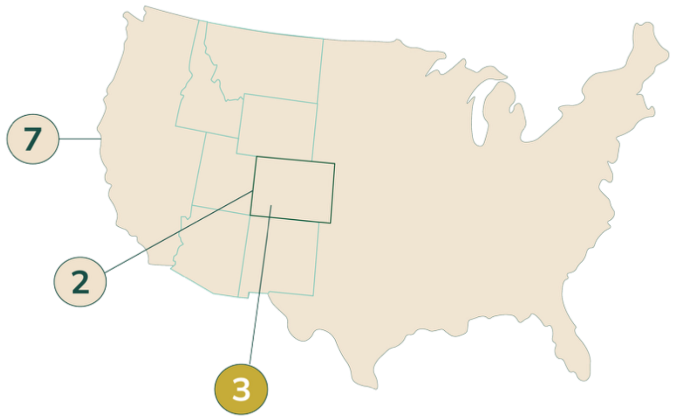
A Summer Day Power Portfolio



Power Supply Assets

Types of Power Generation





1 **SUNNYSIDE SOLAR | 2MW**
LOCAL

2 **TRI-STATE PPA: MIXED | 40MW**
COLORADO

3 **TRI-STATE PPA: DOLORES CANYON SOLAR | 40MW**
COLORADO

4 **LEMON DAM PPA HYDRO | 0.1 MW**
LOCAL

5 **HARVEST PPA HR | 5MW**
LOCAL

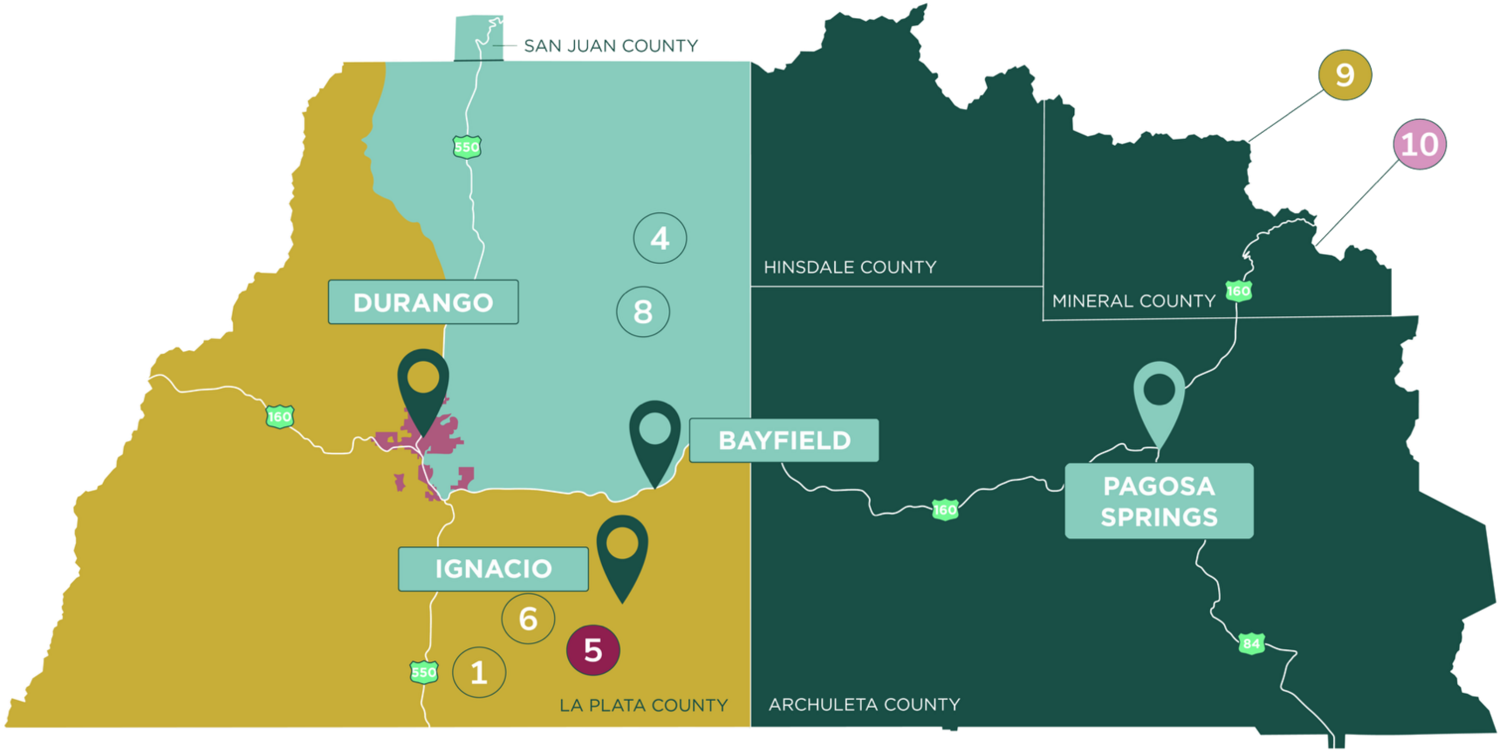
6 **OXFORD TRACT PPA SOLAR | 1MW**
LOCAL

7 **MERCURIA: MIXED | 40MW**
REGIONAL

8 **VALLECITO DAM PPA HYDRO | 5MW**
LOCAL

9 **MEMBER POWERED SOLAR | 25MW**
LOCAL

10 **MEMBER POWERED STORAGE | 1.7MW 3MWH**
LOCAL



LPEA Power Supply Needs

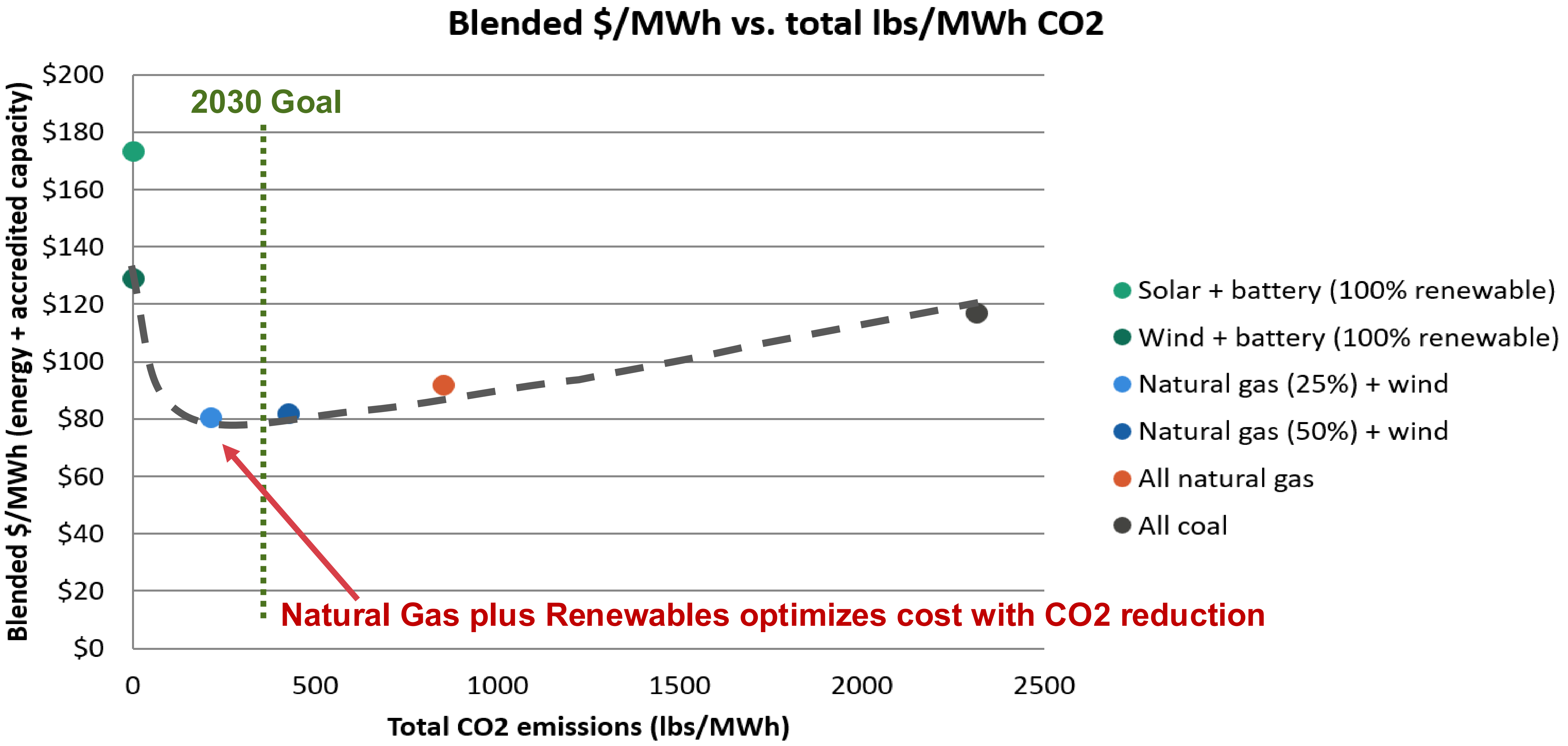
450 MWh of energy

130 MW of accredited capacity

Projects that continue lowering GHG emissions by at least 80%

Maintain LPEA’s affordability among peers

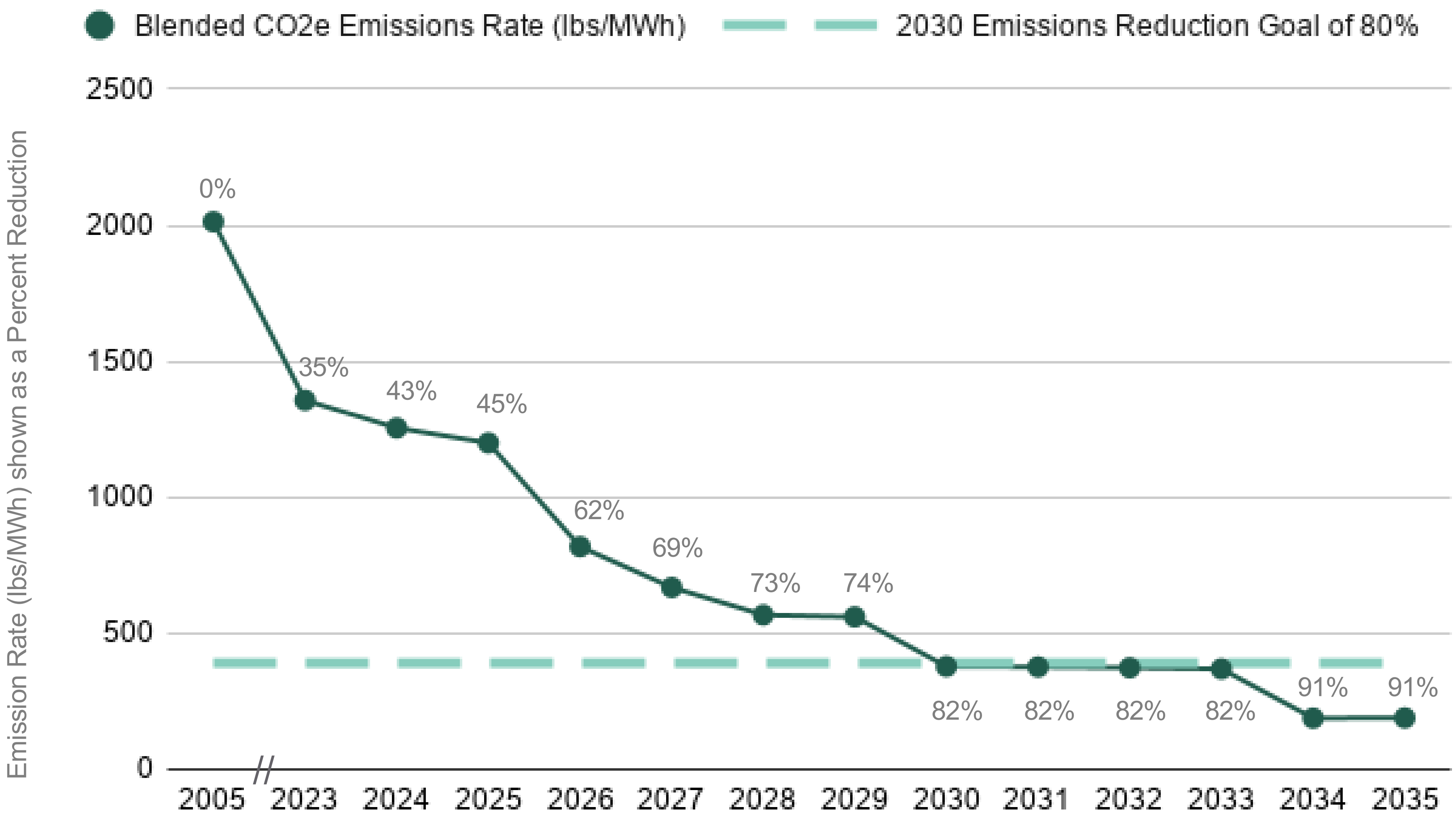
Optimizing Costs and Emissions



Wind Power

- **Deliverability**
- **Timing**
  - Meet 2030 GHG reduction mandate
  - Able to capture Investment Tax Credits
- **Size**
  - LPEA needs 50-75 MW of wind
- **Strategy Options**
  - Form consortium with other utilities
  - Search for smaller projects that fit LPEA

Emission Reduction Forecast



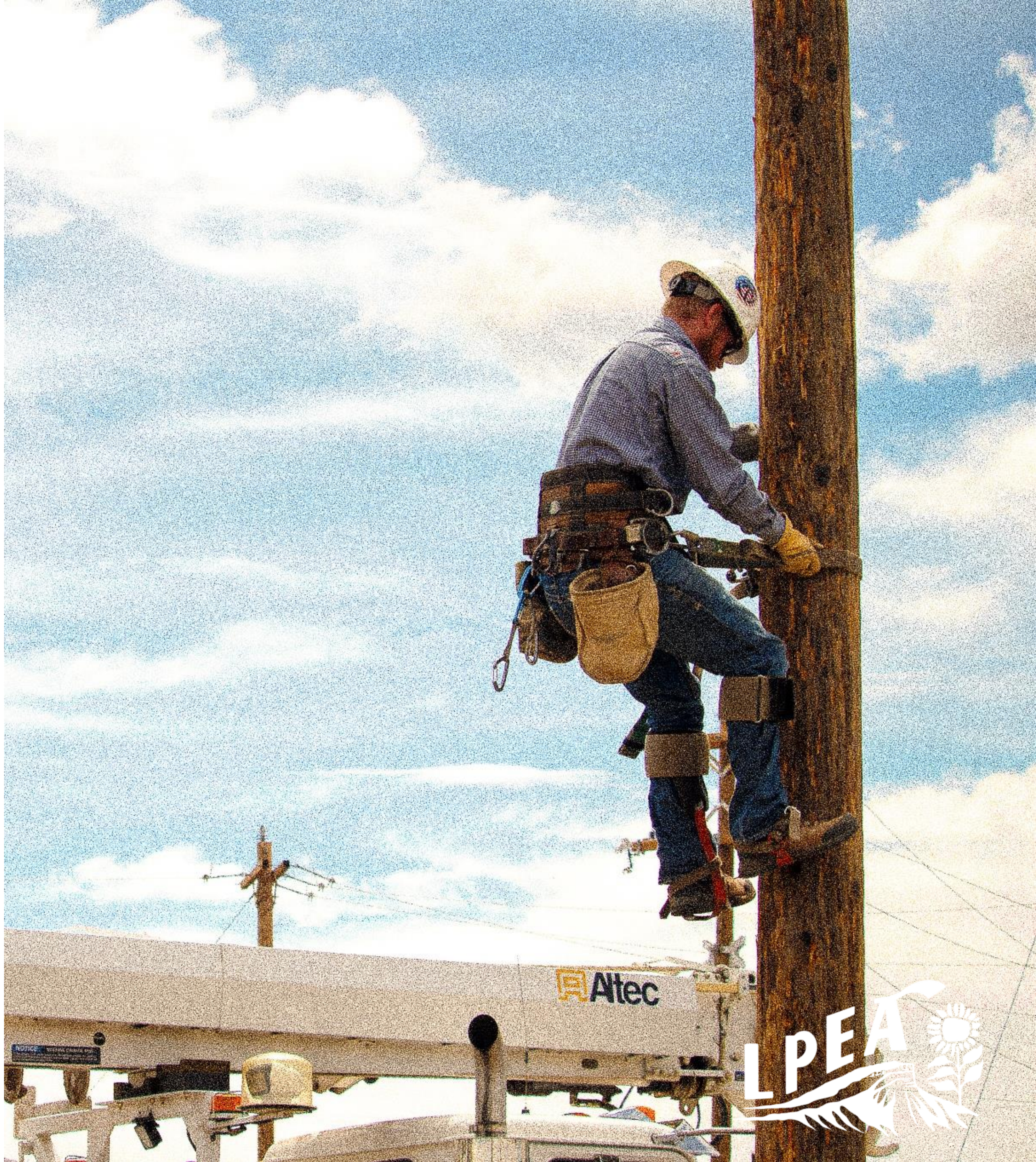
Next Steps

September Board Meeting

- Staff Response to Board Feedback/Questions
- Vote on Power Supply Resolutions

October 13 CommPowerX

- At the Durango Arts Center
- 5:00 PM – 7:30 PM
- lpea.coop/cpx to RSVP

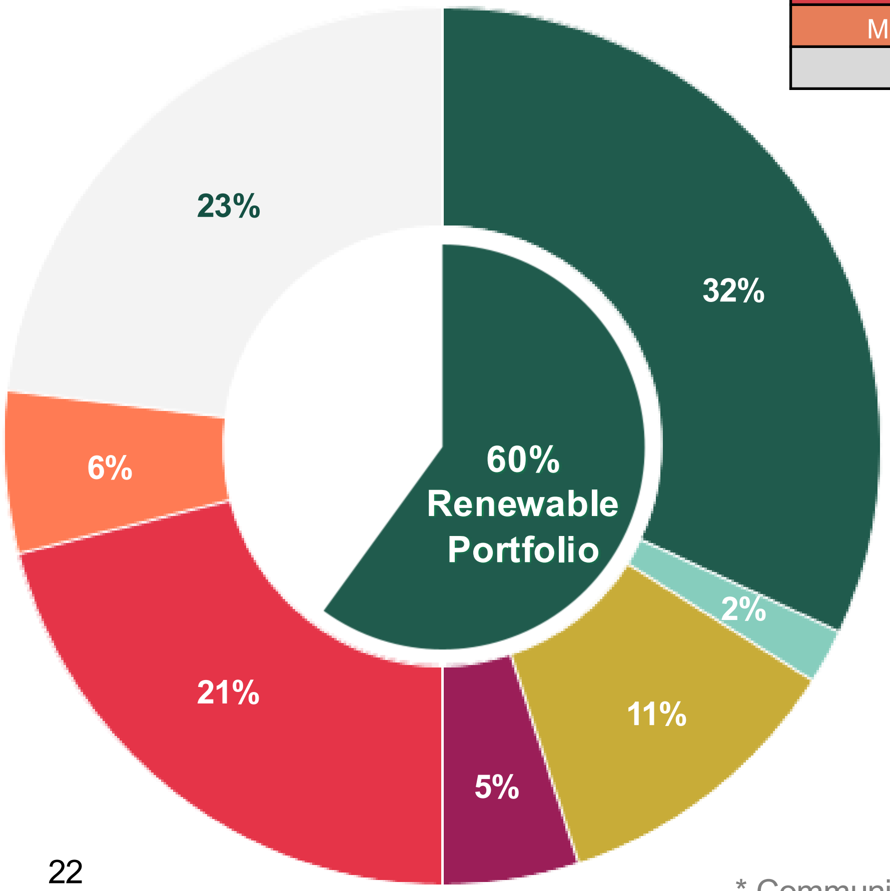


Member Feedback with Q & A

2030 Power Supply Forecast

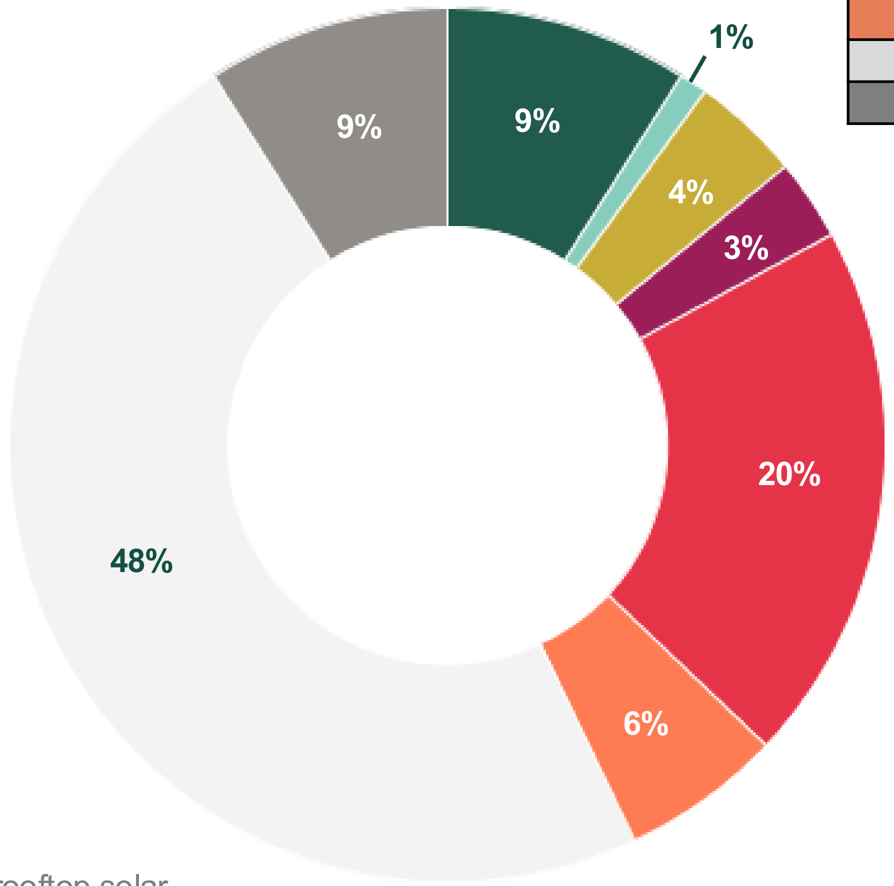
Energy Projection

Wind	32%
Community Solar	2%
Dolores Solar	11%
Harvest	5%
Ti-State Firm	21%
Mercuria	6%
Gas	23%



Capacity Projection

Wind	9%
Community Solar	1%
Dolores Solar	4%
Harvest	3%
Tri-State Firm	20%
Mercuria	6%
Gas	48%
Battery	9%



* Community Solar exclusive of rooftop solar