



LAKE COUNTY
Investing in People
and Our Communities

Draft Net Zero Policy

Energy & Environment Committee
July 29, 2020

Background

- February 2019 – E&E Committee identified Net Zero Emissions as a strategy on the work plan
- May 2019 – First formal discussion of Net Zero at Committee meeting
- November 2019 – Additional discussion of Net Zero at Committee meeting
- February 2020 – Further discussion during Work Plan discussion
- Today – Present rationale and format for draft policy language

Rationale (The Whereas-es)

1. County strategic plan goals
2. 2019 E&E Resolutions
3. Local climate change impacts
4. County operations role in climate change
5. Current emission-reduction initiatives

*Example: **WHEREAS**, emissions from direct energy consumption (vehicle fuel and waste disposal) and indirect emissions from energy purchases (electricity and natural gas), contribute to global climate change and the negative impacts on Lake County's residents, businesses, and natural resources, and...*

Five-Part Resolution

1. Phased approach
2. New facilities
3. Solid waste
4. Public reporting
5. Encouraging others

Five-Part Resolution

1. 2-Phased approach to achieving net zero:
 - a. By 2025: Reduce direct and indirect emissions of County operations by 25%
 - b. By 2050:
 - i. Reduce emissions by 90%
 - ii. Procure 100% renewable energy

Five-Part Resolution

2. Starting in 2021: All new construction facilities will evaluate the potential for net zero certification from a third-party rating system

Five-Part Resolution

3. By 2030: Achieve 60% diversion rate of recyclables and organics and 90% by 2050

Five-Part Resolution

4. Progress toward those goals shall be publicly reported by the County Administrator's office annually, and

Five-Part Resolution

5. Municipalities and townships throughout Lake County are invited and encouraged to join the County in this effort to reduce the environmental impact of the operations required to provide public service to the residents and businesses of Lake County.

Challenges

In the County's Control

- Electrifying facility end uses
- Procurement/ budget priorities
- New construction specifications
- Fleet vehicle choices
- Waste management

Not in the County's Control

- Grid-supplied electricity mix (solar, wind, nuclear)
- Availability of community solar subscriptions

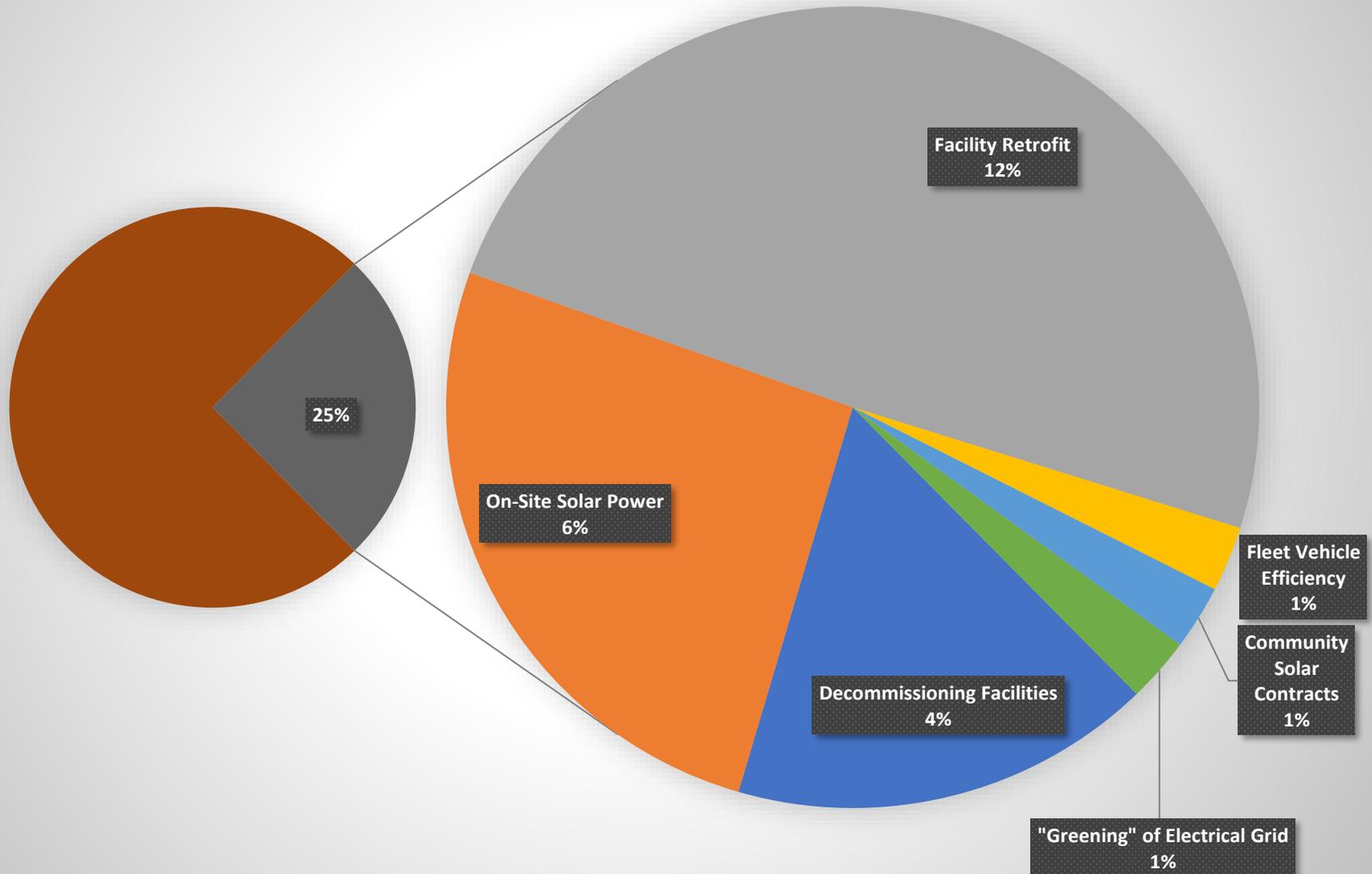
Potential Strategies

- Decommissioning facilities
- On-site solar power
- Facility retrofits
- Fleet vehicle efficiency
- Community solar contracts
- “Greening” of electrical grid
- Eliminate natural gas

Potential Strategies

BREAKDOWN of 25% REDUCTION	2025
Decommissioning Facilities	4%
On-Site Solar Power	7%
Facility Retrofit	13%
Fleet Vehicle Efficiency	1%
Community Solar Contracts	1%
"Greening" of Electrical Grid	1%
Eliminate Natural Gas	0%

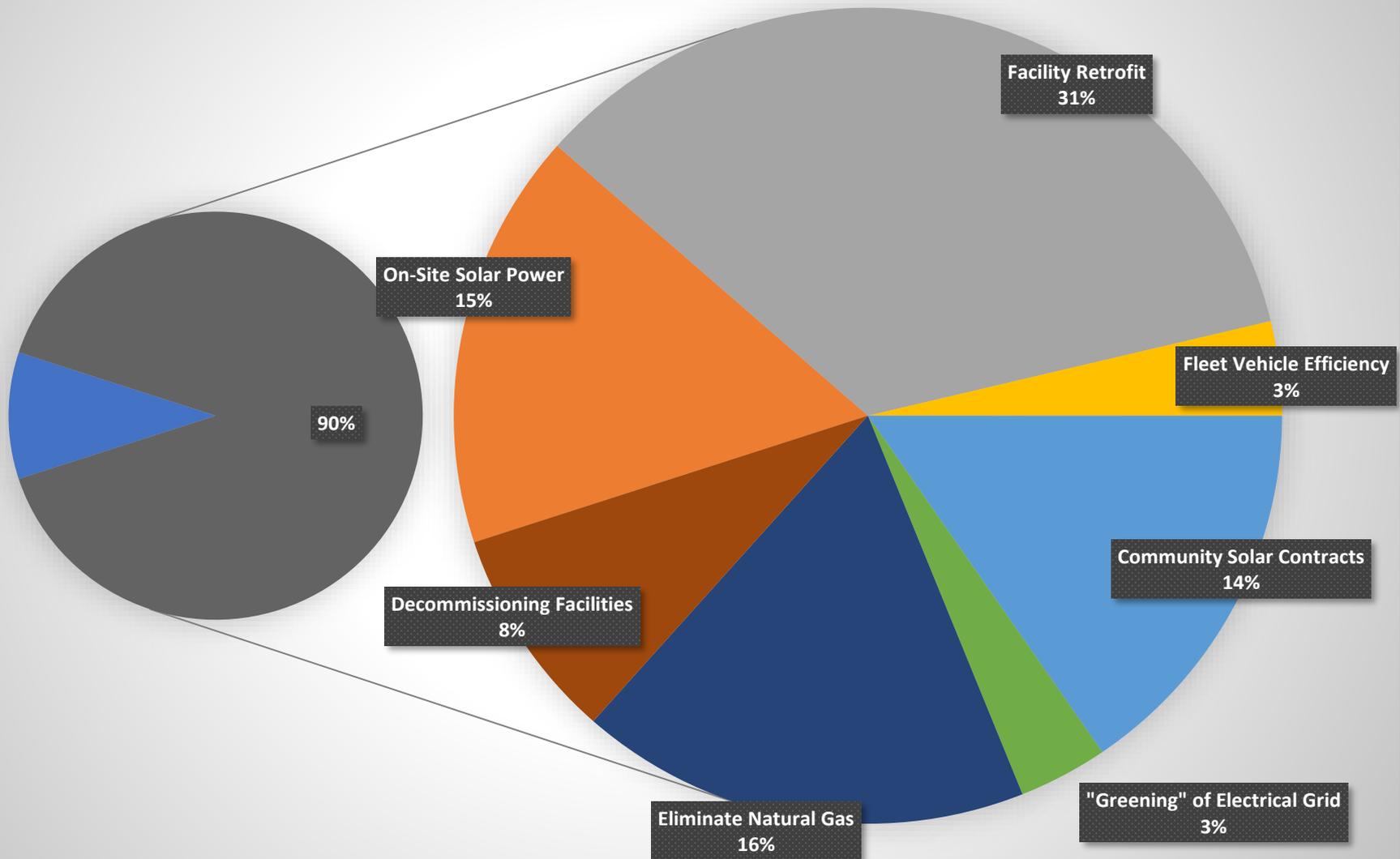
2025 Potential Impact of GHG Reduction Strategies



Potential Strategies

BREAKDOWN of 90% REDUCTION	2050
Decommissioning Facilities	8%
On-Site Solar Power	15%
Facility Retrofit	31%
Fleet Vehicle Efficiency	3%
Community Solar Contracts	14%
"Greening" of Electrical Grid	3%
Eliminate Natural Gas	16%

2050 Potential Impact of GHG Reduction Strategies



Potential Strategies

more detail for insight

- Decommissioning 911/EOC facility
- 2025 facility retrofits
 - 15% electricity reduction, 10% natural gas reduction
- 2050 facility retrofits
 - Additional 55% electricity reduction; 0% natural gas service
- 2025 fleet fuel
 - 15% gas reduction
- 2050 fleet fuel
 - Additional 60% gas reduction

Discussion