

## Proposed Outline for a JCOS Sustainability Session:

### *Juneau's Energy Picture and Actions to Reduce GHG Emissions*

3/27/2023

#### I. Juneau's Energy Picture in 2021

- Major findings from study on energy use & GHG emissions (pie charts, summary #s)
- It's the best we know...don't get bogged down in methodology, caveats, etc.)

#### II. Are We Making Progress on Energy Use & Decarbonizing our Community?

- Trends from 2007 & 2010 inventories - % decreases in energy consumption and GHG emissions, by sector.
- Progress already Underway: CBJ facilities energy use tracking and upgrades, Juneau home energy upgrades under former AK Rebate program, heat pumps in 1500-1800 Juneau homes, 1 Capital Transit electric bus, 33 public EV chargers, 600+ EVs, LED street lighting, efforts by mines.
- Near-term Additional Progress: ongoing heat pump adoption (including support for lower income households), 7 more electric buses on order, CBJ dock electrification for cruise ships.
- Carbon Reduction – Quantifying examples: 1 electric bus, 1,000 heat pumps, 100 EVs, 1-2 CBJ facilities.

#### III. What Are Our Community Goals?

- 80% renewable by 2045. ~29% renewable (2021), up from 20% (2010)
- March 2023 IPCC Report calls for dramatic increase in efforts. U.S. goal: 50% GHG reduction by 2030, net-zero by 2050.
- Juneau has additional hydropower supply options to meet demand as the community shifts away from fossil fuels.

#### IV. Continued Efforts and Possible Next Steps – A Five-Year Workplan

- Identify actions, responsible party & partners, funding sources.

For example:

- *Immediate* (2023) – ongoing efforts, 2022 Energy/GHG Inventory, EV strategy, financing options for commercial bldg. upgrades, metrics to track progress.
- *Near-Term* (2024-2026) – ongoing efforts, 2023 Energy/GHG Inventory, heat pumps in multi-family housing, AK Steamship Dock electrified, energy efficient building practices & codes, revisit JCAIP & JRES and update targets.
- *Longer-Term* (2027 & beyond) – ongoing efforts, 2026 Energy/GHG Inventory