NASUCA Transmission Panel

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Energy projections for Futures are forecasted through 2039

**Future 1**
- Footprint develops in line with 100% of utility IRPs and 85% of utility/state announcements, etc.
- Emissions decline as an outcome of utility plans
- Load growth consistent with trends

**Future 2**
- Companies/states meet their goals, mandates, etc.
- Footprint-wide CER\(^2\) of 60% by 2040
- Energy increases 30% footprint-wide by 2040, driven by electrification

**Future 3**
- Changing federal and state policies support footprint-wide CER of 80% by 2040
- Increased electrification drives a footprint-wide 50% increase in energy by 2040

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1. Energy mix outputs from EGEAS do not consider transmission constraints
2. Carbon emissions reduction (CER) from 2005 baseline
Transmission needs, overall transmission costs and generation costs can change based on where renewables are sourced, but planned generation costs will far outweigh transmission costs in any case.
MISO’s projected scope of transmission expansion needs is reflected in the initial roadmap for Future 1; the Future 1 roadmap also serves as the starting point for the potential transmission needs in Futures 2 and 3.