Andy Tobin, Arizona Corporation Commissioner

Objective

- Update Arizona's energy policies
- Provide affordable energy to consumers
- Lead the nation in adapting to new technologies
- Prevent double-recovery, curtailment, and stranded assets

1.5%

Ready **F**

Scope

Renewable Energy Standard and Tariff (REST)

- Clean Resource Energy Standard and Tariff (CREST)
- Clean Peak Target

80% 3GW 50k

- Biomass Production Requirement
- Integrated Resource Plans (IRPs)
 - Energy Storage Target
 - Compliance and Planning Reformation
- Demand-Side Management (DSM) and Energy Efficiency (EE)
 - Transportation electrification
 - Water-energy nexus

50k

3GW

80%

GUIDING PRINCIPLES

1.5%

Ready 🗲

Resiliency (Security) Affordability and Reliability Innovation Economic Development Resource Diversity

50k 🦯

80%

3GW 4

BUILDING ON THE RENEWABLE ENERGY STANDARD AND TARIFF (REST)

Ready **7**

Keeps all existing REST targets in-tact (15% goal by 2025 is unchanged)

1.5%

Seeks to shift a portion of REST-qualified assets to on-peak hours

Asks that a sustainable portion (60MW) of REST compliance come from Arizona-harvested biomass resources

50k /

3GW

80%

1.5%

WHAT WILL THE CLEAN RESOURCE ENERGY STANDARD AND TARIFF (CREST) LOOK LIKE?

80% clean energy portfolio by 2050

Clean definition

Solar, wind, nuclear, hydro, and any other zero-carbon emission resource

Ready **F**

20% recognized for flexibility, baseload, or market purchases Based on current portfolios and portfolio projections for the future

2050 target

Respects existing investment lifespans and prevents curtailments

Gives room for acceleration

50k

3GW 🗗

1.5%

Ready 5

clean

80% Clean Energy portfolio by the year 2050

"zero net emissions beyond that of steam"

Includes nuclear

Accounts for baseload needs and existing plant lifespans

Prevents new build-out of nonclean plants

.5%

50k

80%

Ready 5

storage

3,000MW of Energy Storage Capacity by the year 2030

> Technology agnostic Battery storage Pumped hydro Compressed air

Based on utility projections

Helps to provide solar power during hours when the sun doesn't shine

.5%

3GW 🛃

80%

acres

Ready 🕫

60MW of Arizona-Biomass Generated Energy per year

Calculated for sustainability (no clear cuts)

50,000 acres thinned per year 1 million acres in 20 years

Must be Arizona-sourced (at least 80%) (high-risk forest) (small diameter trees)

Reduce wildfire risk via existing REST framework

50k

80%

3GW

Ready 7

on peak

Clean Peak Target that increases 1.5% each year

Top 10% of energy use accounts for top 40% of energy cost

Percentage of "on peak" hours must come from clean resources

Hours from 3pm to 8pm

Incentivizes energy storage

Helps equalize "peak" demand (duck curve)

50k

1.5%

ready

3GW 🕇

80%

Modernize Energy Efficiency & Prepare Transportation Electrification infrastructure

Revisit and reform the existing energy efficiency rules

Prepare Arizona for the electric vehicle economy

Requires plans for EV infrastructure build-out (commercial & residential) (government & highway)

50k 🦳

1.5% 🏅

Ready **F**

HOW WILL THESE TARGETS HELP ARIZONA RATEPAYERS?

3GW 🛃

80%

Potential to reduce funds needed for future wildfire suppression

Prevents utilities from over-investing in resources likely to be curtailed, which protects ratepayers from doublepaying on stranded assets

Prevents curtailment of existing resources by respecting their remaining lifespans

Saves ratepayers on the most expensive hours of the day, by shifting load and reducing peak demand

3GW 🚹 ____ 50k 🛕 1.5% 🤳

80%

Ready 🚮

NEXT STEPS

Commission vote to approve the plan Biomass moved forward on 3/13/2018 Begin the rulemaking process Collect stakeholder comment Refine plan details & rule language Finalize rulemaking by end of 2018

THANK YOU

FOR QUESTIONS: DSCHWIEBERT@AZCC.GOV