The Utah Roadmap

January 16, 2020
Technical Advisory Committee
Health Effects of Air Emissions and Pollutants

Utah-based health studies highlighted in red

Asthma
Respiratory disease mortality
Respiratory disease morbidity
Lung cancer
Pneumonia
Upper and lower respiratory symptoms
Airway inflammation
Decreased lung function
Decreased lung growth
Insulin resistance
Type 2 diabetes
Type 1 diabetes
Bone metabolism
High blood pressure
Endothelial dysfunction
Increased blood coagulation
Systemic inflammation
Deep venous thrombosis
Skin aging

Suicide
Stroke
Neurological development
Mental health
Neurodegenerative disease
Cardiovascular disease mortality
Cardiovascular disease morbidity
Myocardial infarction
Arrhythmia
Congestive heart failure
Changes in heart rate variability
ST-segment depression

School absences
Juvenile idiopathic arthritis
Pre-term birth
Decreased birthweight
Decreased fetal growth
Intrauterine growth retardation
Decreased sperm quality
Pre-eclampsia

Source: Adapted from Thurston et al., 2017: Utah health studies included in additional reference list.
CO2 Concentration for the Past 800,000 Years

Source: U.S. National Academies of Science, NASA
The Air Quality/ Changing Climate Connection

- Reduce Air Pollution Emissions
- Reduce Auto Dependency
- Improve Energy Efficiency
- Advance Innovative Energy Solutions
- Reduce Greenhouse Gas Emissions
Utah’s Air Emissions Baseline

Source: Utah Department of Environmental Quality (historical), and Kem C. Gardner Policy Institute (aspirational)
Utah’s Carbon Dioxide Emissions Baseline

Source: US Energy Information Administration (EIA) based on the combustion of fossil fuel (historical), and Kem C. Gardner Policy Institute (aspirational)

* Projected

1. Potential scenario dates for the Bonanza (2030), Huntington (2036), and Hunter (2042) power plant closures are notional.
2. Closures of Huntington, Bonanza and Hunter power plants delayed beyond 2050.
Recommendations

1. Adopt emissions-reduction goals and measure result
2. Lead by example
3. Create a premier air quality/changing climate solutions laboratory
4. Accelerate quality growth efforts
5. Position Utah as the market-based EV state
6. Provide economic transition assistance to rural communities
7. Participate in national dialogue about market-based approaches to reduce carbon emissions
Cost of Utility-Scale Solar Generation Sees Steep Decline

Levelized Cost of Electricity (LCOE) – $/MWh

- Nuclear
- Coal
- Combined-cycle gas
- Utility solar (unsubsidized)
- Wind (unsubsidized)

Note: LCOE shown is the mid-point of the range given by Lazard
Source: Lazard, Levelized Cost of Energy Analysis, Version 13.0
Planning Strategy Discussion

16 January 2020

RGC
Utah is Growing

Utah is the nation’s fastest-growing state this decade
WASATCH CHOICE
2050

VISION FOR OUR FUTURE
Utah is growing... and we have a plan. Our future quality of life depends on the choices we make today. Wasatch Choice 2050 is our communities’ shared vision for transportation investments, development patterns, and economic opportunities. The Vision map and key strategies show how advancing the Vision can enhance quality of life even as we grow.

Key Strategies
The Wasatch Choice 2050 Vision is built on four key strategies:

1. Provide transportation choices
2. Support housing options
3. Preserve open space
4. Link economic development with transportation and housing decisions

Benefits of the Vision
Implementing the Wasatch Choice 2050 Vision promotes high quality of life now and for generations to come.

- Livable and healthy communities
- Access to economic and educational opportunities
- Manageable and reliable traffic conditions
- Quality transportation choices
- Green, user-friendly streets
- Clean air
- Housing choices and affordable living expenses
- Fiscally responsible communities and infrastructure
- Sustainable environment
- Ample open space and recreational opportunities
Transportation and land use coordinated “on the street”
Two Key Questions

1. Are there additional ways to work together to achieve desired local outcomes?

2. How might we better prepare for new technologies and a changing economy?

3. How might we better prepare for a changing economy?
1. Additional ways to work together to achieve desired local outcomes?

Examples...

- Senate Bill 34 (Housing) implementation?
- Improve the “fit”?
- Address NIMBY concerns?
The future ain't what it used to be.

Yogi Berra

www.thequotes.in
New and emerging technologies…..
Example: autonomous vehicles range of impacts

- Challenges/opportunities for transit?
- Parking demands change?
- More people opt to live far from work?
- Demand for “drop-off space”
- New infrastructure needs?
- Auto ownership changes?
- Impacts on safety?
- Affects on the poor?
- More local traffic?
2. How might we better prepare for ...... A) new technologies
2. How might we better prepare for .....B) a changing economy

**Amazonization** of.....

- Retail
- Cooking
- Healthcare
- Commuting
- Banking
Next steps

- Flesh out your feedback with our technical advisors
- Bring work-scope to you in March
- Begin work to further understand external forces
- More questions and guidance sought from RGC over time
Roy Example

Collaborating local and regional actions leads to better outcomes
The Cairns - A New Downtown for Sandy
2. Prepare for what external forces?

Such as...

Technologies
Markets
Demographics
Regional Transportation Plan

Adopt an RTP every four years

Periodic adjustments between adoption cycles

Must consider:

- Financial constraints
- Public input
- Air quality conformity
We want to be responsive to new needs and opportunities.
Current Process

Before March

April

May

Receive and WFRC Staff Review of Request

WFRC Staff Determines Level of Amendment

Level 1
Staff Modification

Level 2
Board Modification For Non-Regionally Significant Projects

Level 3
Full Amendment For Regionally Significant Projects

WFRC Executive Director Approval per adopted procedure

TAC Review and Recommendation to RGC

RGC Review and Release for Public Comment

Air Quality Conformity Determination
Current Process

- **June**
  - Notification to County COG
  - 30-day Public Comment Period

- **July**
  - WFRC Staff Review of Comments and Recommendation
  - Are there Regionally Significant Changes from the Comment Period?
    - Yes
      - RGC Review Staff Recommendation for Modification and New Public Comment Period
    - No
      - RGC Review Staff Recommendation for WFRC Approval and Website Update

- **August**
  - WFRC Review and Approval
## Technical Considerations

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<thead>
<tr>
<th>Technical Considerations:</th>
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<tr>
<td>Safety, user-friendly streets</td>
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<td>Manageable and reliable traffic conditions</td>
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<td>Project Readiness</td>
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<td>Support Wasatch Choice 2050</td>
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<td>Connections to Clusters</td>
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<td>Job and Education Access (ATO)</td>
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<tr>
<td>Supports Multimodal Transportation Choices Ridership</td>
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<td>Impacts Vulnerable Community</td>
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<td>Air Quality Conformity Analysis</td>
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We are trying to balance rigor with streamlined.
### Staff Ideas

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<th>Staff Modification</th>
<th>Board Modification</th>
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<td>&lt; $10 Million</td>
<td>&gt; $10 Million</td>
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**Collectors and below:**
- New construction
- Widening
- Corridor preservation
- Phasing changes

**Minor arterials and above:**
- New construction
- Widening
- Corridor preservation
- Phasing changes

**Operational projects**

**Core routes and express bus:**
- New construction
- Phasing changes
- Alignment changes

**BRT and rail:**
- New construction
- Phasing changes
- Alignment changes

**Individual bicycle facilities**

**Full active transportation plan updates**

**General land use**

**Regionally significant centers**
Next Steps

January
- UDOT/UTA coordination/internal review

February
- Technical Advisory Committee
  - Review amendment proposal
  - Updated funding source requirements

March
- Regional Growth Committee
  - Review and approval of amendment proposal
  - Updated funding source requirements
Welcome, and Welcome back…

Mayor Joy Petro, Layton City | Mayor Dan Knopp, Brighton Town | Mayor Jeff Silvestrini, Millcreek City | Mayor Erin Mendenhall, Salt Lake City | Mayor Dirk Burton, West Jordan City | Mayor Kelly Bush, Kearns Township | Mayor Dan Peay, Magna Township | Mayor Thomas Karjola, Stockton Town | Mayor Dale Fowers, Hooper City | Mayor S. Neal Berube, North Ogden City | Mayor Mike Caldwell, Ogden City | Mayor Gordon Cutler, Uintah City
2020 Legislative Session

WHAT WE ARE TRACKING

- Eliminate UTA Transit Oriented Development (TOD) cap, with enhanced consideration of land use and housing coordination by UTA when new TODs are considered
- Potential bond bill for road and transit projects
- Funding for transit expansion
- Allow state participation in Transportation Reinvestment Zones (TRZ)
- Commission on Housing Affordability (SB39) support for affordable housing at TOD
- Continued ongoing funding to WFRC for planning assistance
2020 Legislative Session

WHAT TO EXPECT DURING THE SESSION

1) **Weekly emails** on transportation and/or related legislation and other governmental affairs updates.

1) **Weekly meetings** with our members and key partners to discuss and prioritize relevant legislation - first meeting will be January 30, 2020 and continue every Thursday at 8am at the State Capitol, Senate Building, Aspen Room.

1) **A Bill Tracker** with relevant information for transportation, economic development, air quality, and land use related bills.