



**MOUNTAIN
TOWNS
2030**

Mountain Towns Solutions Project

March 2021

is the Goal.



**MOUNTAIN
TOWNS
2030**

**To empower mountain and outdoor
communities to achieve carbon
neutrality by 2030.**

The Mountain Towns Solutions Project

**An easy-to-understand climate action framework
that accelerates information sharing, tools, and
collaboration by 2030.**

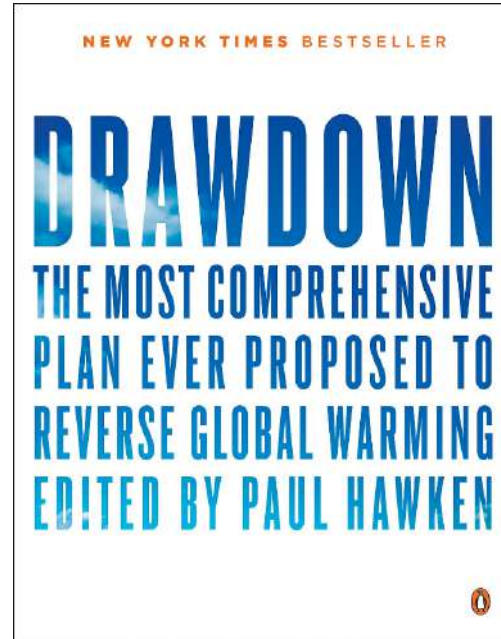
Current State

Hard to read replicability and branding:



Current State

Academic top-down:



The Mountain Towns Solutions Project (MTSP)

- The MTSP is an innovative approach to climate action planning.
- By leveraging existing data and knowledge and bringing communities together to participate in a collaborative planning process, the MTSP connects communities with the tools needed to accelerate their climate action planning.

Common Framework

- Smart Thermostats
- Building Automation Systems
- Led Lighting
- Insulation
- Dynamic Glass
- High-Performance Glass
- Green & Cool Roofs
- District Heating
- High-Efficiency Heat Pumps
- Solar Hot Water
- Low-Flow Fixtures
- Water Distribution Efficiency
- Building Retrofitting
- Net-Zero Buildings
- Concentrated Solar Power
- Distributed Solar Photovoltaics
- Utility-Scale Solar Photovoltaics
- Micro Wind Turbines
- Onshore Wind Turbines
- Offshore Wind Turbines
- Geothermal Power
- Small Hydropower
- Ocean Power
- Biomass Power
- Nuclear Power
- Waste-to-Energy
- Landfill Methane Capture
- Methane Digesters
- Grid Flexibility
- Microgrids
- Distributed Energy Storage
- Utility-Scale Energy Storage
- Plant-Rich Diets
- Reduced Food Waste
- Forest Protection
- Indigenous Peoples' Forest Tenure
- Grassland Protection
- Peatland Protection & Rewetting
- Coastal Wetland Protection
- Sustainable Intensification for Smallholders
- Conservation Agriculture
- Regenerative Annual Cropping
- Nutrient Management
- Farm Irrigation Efficiency
- Improved Rice Production
- System of Rice Intensification
- Alternative Cement
- Bioplastics
- Composting
- Recycling
- Recycled Paper
- Waste-to-Energy
- Landfill Methane Capture
- Methane Digesters
- Refrigerant Management
- Alternative Refrigerants
- Walkable Cities
- Bicycle Infrastructure
- Electric Bicycles
- Carpooling
- Public Transit
- High Speed Rail
- Telepresence
- Hybrid Cars
- Efficient Trucks
- Efficient Aviation
- Efficient Ocean Shipping
- Electric Cars
- Electric Trains
- Smart Thermostats
- Building Automation Systems
- Insulation
- Dynamic Glass
- High-Performance Glass
- Green & Cool Roofs
- Low-Flow Fixtures

Common Framework

- Smart Thermostats
- Building Automation Systems
- Led Lighting
- Insulation
- Dynamic Glass
- High-Performance Glass
- Green & Cool Roofs
- District Heating
- High-Efficiency Heat Pumps
- Solar Hot Water
- Low-Flow Fixtures
- Water Distribution Efficiency
- Building Renovation
- Net-Zero Buildings
- Concentrated Solar Power
- Distributed Energy Storage
- Utility-Scale Solar Photovoltaic
- Micro Wind Turbines
- Onshore Wind Turbines
- Offshore Wind Turbines
- Geothermal Power
- Small Hydropower
- Ocean Power
- Biomass Power
- Nuclear Power
- Waste-to-Energy
- Landfill Methane Capture
- Methane Digesters
- Grid Flexibility
- Distributed Energy Storage
- Utility-Scale Energy Storage
- Smart Grids
- Reduced Food Waste
- Forest Protection
- Indigenous Peoples' Forest Tenure
- Green and Plastic
- Peatland Protection & Rewetting
- Coastal Wetland Protection
- Sustainable Intensification for Smallholders
- Regenerative Annual Cropping
- Nutrient Management
- Farm Irrigation Efficiency
- Improved Rice Production
- System of Rice Intensification
- Alternative Cement
- Bioplastics
- Composting
- Recycling
- Recycled Paper
- Waste-to-Energy
- Landfill Methane Capture
- Methane Digesters
- Refrigerant Management
- Ultra-Low Global Warming Potential Refrigerants
- Walkable Cities
- Bicycle Infrastructure
- Electric Bicycles
- Carpooling
- Public Transit
- High Speed Rail
- Telepresence
- Efficient Trucks
- Efficient Aviation
- Efficient Ocean Shipping
- Electric Trains
- Smart Thermostats
- Building Automation Systems
- Insulation
- Dynamic Glass
- High-Performance Glass
- Green & Cool Roofs
- Low-Flow Fixtures

Communities will refine a common MT framework of solutions.

This framework will be the basis of showing individual progress and areas of collaboration.

Solutions



Park City, UT

Utility Scale Renewables

Carbon Savings: 256,000 MT

Cost: \$1.2 million

Benefit: \$48 million

"Rocky Mountain Power could have said, "We're not interested in a path to 100% renewables," and that would have set up a battle in the legislature or for municipalization," Park City Environmental Sustainability Manager and bill co-author Luke Cartin told Utility Dive. "But they wanted to help drive this change. If they didn't want to be a partner, things would be very different."

HB 411 is a big step for Utah, which gets [80% of its energy from fossil fuels](#), and for coal-dependent RMP, which serves 80% of state load. [Recent polling](#) shows Utahns want a bigger transition to cleaner energy and cleaner air, and a new road map toward that transition now being debated by lawmakers suggests 411's collaborative "Utah way" approach has opened new possibilities for the state.

Utah's breakthrough may also show how other coal-dependent red states can begin their own transitions, though some stakeholders say the 100% program must have a stronger provisions that new renewables are built to serve it to ensure emissions reduction gains are real.

The story behind HB 411

Nine state level jurisdictions, 159 communities, and [many major utilities](#) have 100% renewables commitments, and [at least 15 states](#) are working toward them, according to [Sierra Clubs' Ready for 100 project](#). But Utah's 80% Republican legislature presented a challenge. It passed a [joint resolution](#) in 2010 calling climate science "questionable" and those concerned about CO2 emissions "alarmists." In the last five years, however, Utah has changed. In 2016, Salt Lake City Mayor Jackie Biskupski [renegotiated the city's franchise agreement with RMP](#) and began talks for a 100% renewables program. And in 2018, a youth movement got a [historic resolution](#) through the legislature calling for climate and air pollution action, environmental activist Piper Christian told Utility Dive. By then, Park City and other communities and environmental activists had joined [Salt Lake City's 100% renewables talks with RMP](#). Under those talks, RMP seemed to realize that supporting the city's transition would allow it to take advantage of low cost renewables to meet growing customer demand, Utah Clean Energy Renewable Energy Program Manager Kate Bowman told Utility Dive.

More Information:

Luke Cartin: luke.cartin@parkcity.org

Solutions



Utility Scale Renewables

Solutions are individual topic and will focus on progress to a goal, financial impact, and other pertinent information. Studies, tools, etc., will be cited. The goal is to make it easy to understand, interpret, and find additional information.

Key actions will be 1-2 pages, secondary projects will be 1-3 paragraphs.

More Information:
Luke Cartin: luke.cartin@parkcity.org

The Collective

Sharing

	Electric Bicycles	Electric Cars	Farm Irrigation Efficiency	High-Efficiency Heat Pumps	High-Performance Glass	Hybrid Cars	Indigenous Peoples' Forest Tenure	Insulation	Landfill Methane Capture	Led Lighting	Low-Flow Fixtures	Net-Zero Buildings	Public Transit
Park City, UT													
Jackson, WY	Green	Green	Grey	Orange	Orange	Yellow	Blue	Orange	Grey	Green	Yellow	Blue	Blue
Crested Butte, CO	Orange	Green		Orange	Orange	Yellow							
Aspen, CO	Yellow	Green	Yellow	Orange	Orange	Yellow							
Missoula, MT									Grey	Green	Yellow	Blue	Green
Missoula County, MT		Yellow		Orange	Orange	Yellow							
Summit County, UT		Green		Orange	Orange	Green			Yellow	Green	Yellow	Blue	Green
Bozeman, MT	Orange	Green		Orange	Orange	Yellow							

Innovation



Understand various communities' progress and solutions

Identify areas of future collaboration

Pathways

**Participants will benefit their community and other communities.
You have the option to:**

Focus on
individual
community
goals and
actions

Design the
appearance,
key language,
and
presentation of
MTSP

Collaborate on
new solutions
and influence
convenings

Commitments

- Commit to the MT2030 charter – setting a goal to reduce carbon emissions 100% by 2030.
- Sign-up for MTSP. Towns/Counties that have staff and elected officials will be prioritized; however other communities can participate.
- Join monthly planning calls and collaborative discussions.
- Create community-specific content (approximately 2-4 hours per week) that will be used in the MTSP Guidebook.

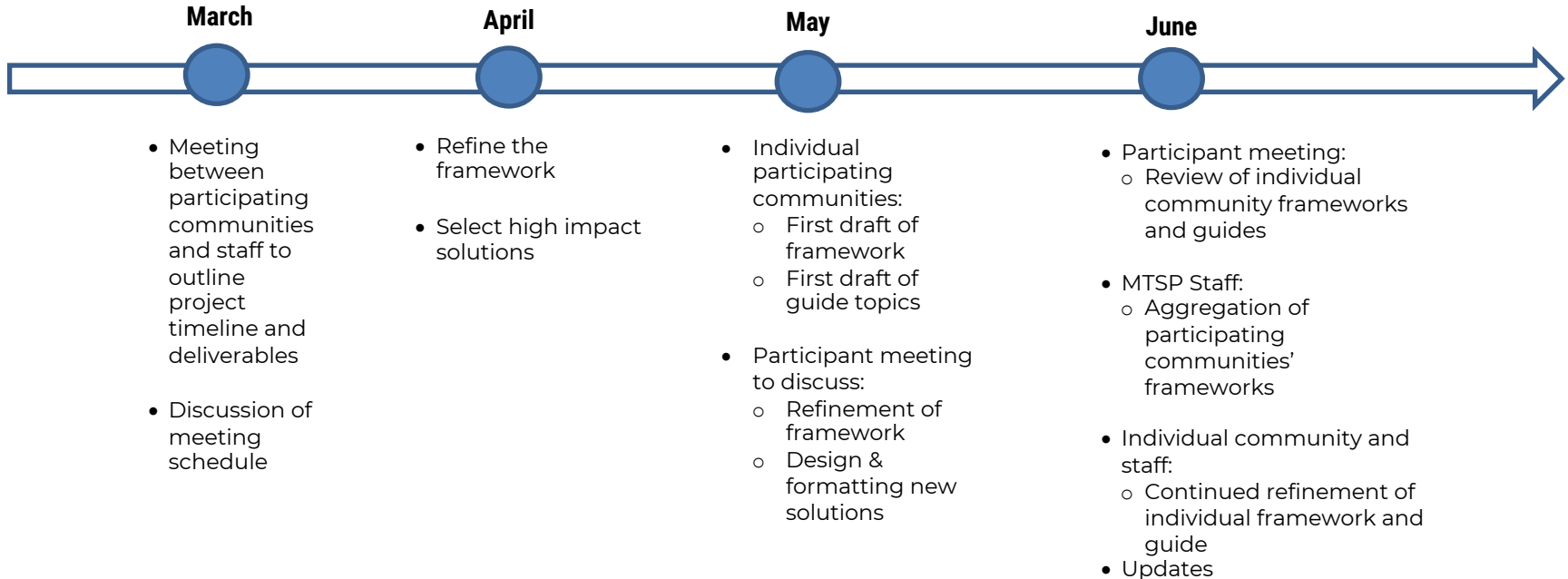
Guidance

- MT2030 will have dedicated staff assigned to work with communities on their plans, run monthly meetings, and aggregate information/produce the guidebook
- MTSP will produce a 12-month curriculum – a set of modules which will guide the collaborative planning process
- The MTSP Guidebook: an aggregation of the shared information that will become a resource and tool for every community that will accelerate a community's journey to carbon neutrality
- MTSP resources will be located at MT2030.org – partners can access this resource library for the tool and resources needed
- Participating communities will be invited to exclusive MT2030 events and workshops

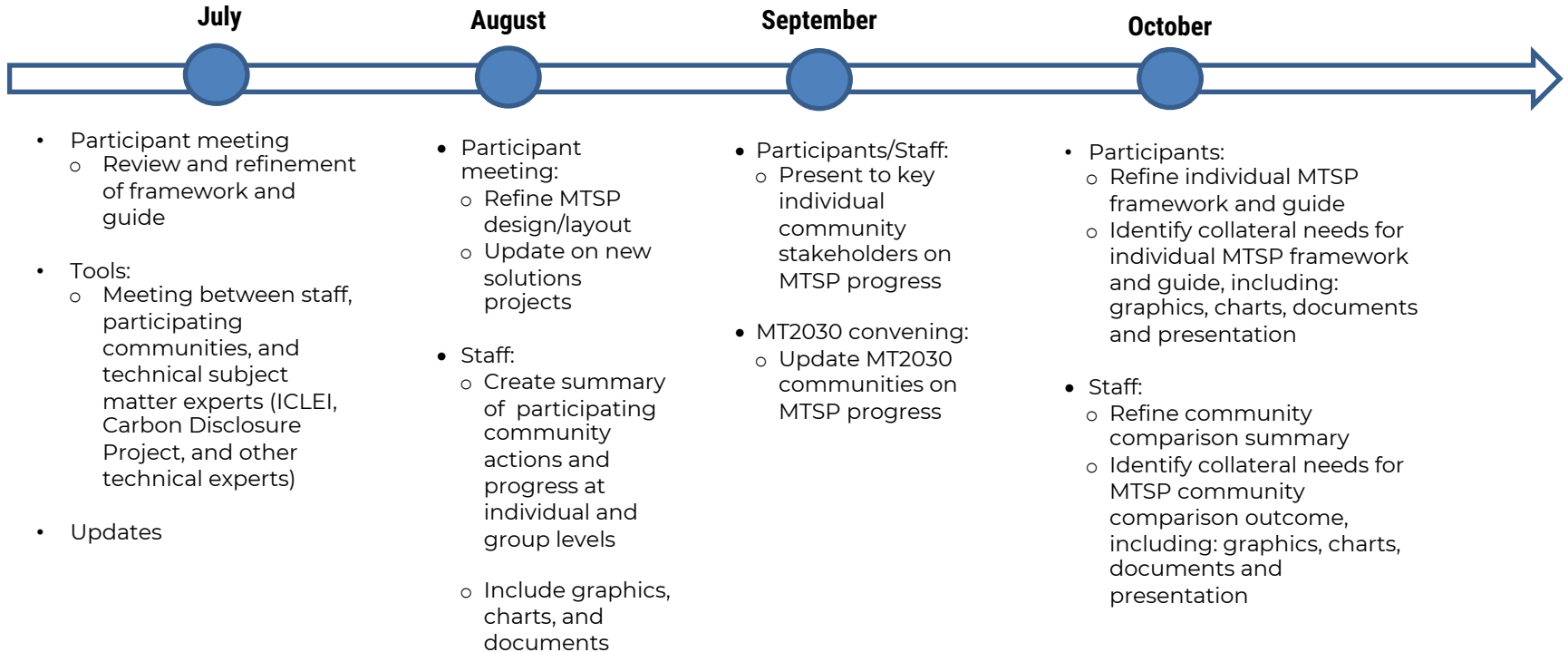
Timing

This project will be completed in 10-12 months. The work product will be highlighted at the MT2030 annual conference (in-person or virtual), through sustainability networks (including ICLEI and the Urban Sustainability Directors Network) as well as to the individual participating community's leadership.

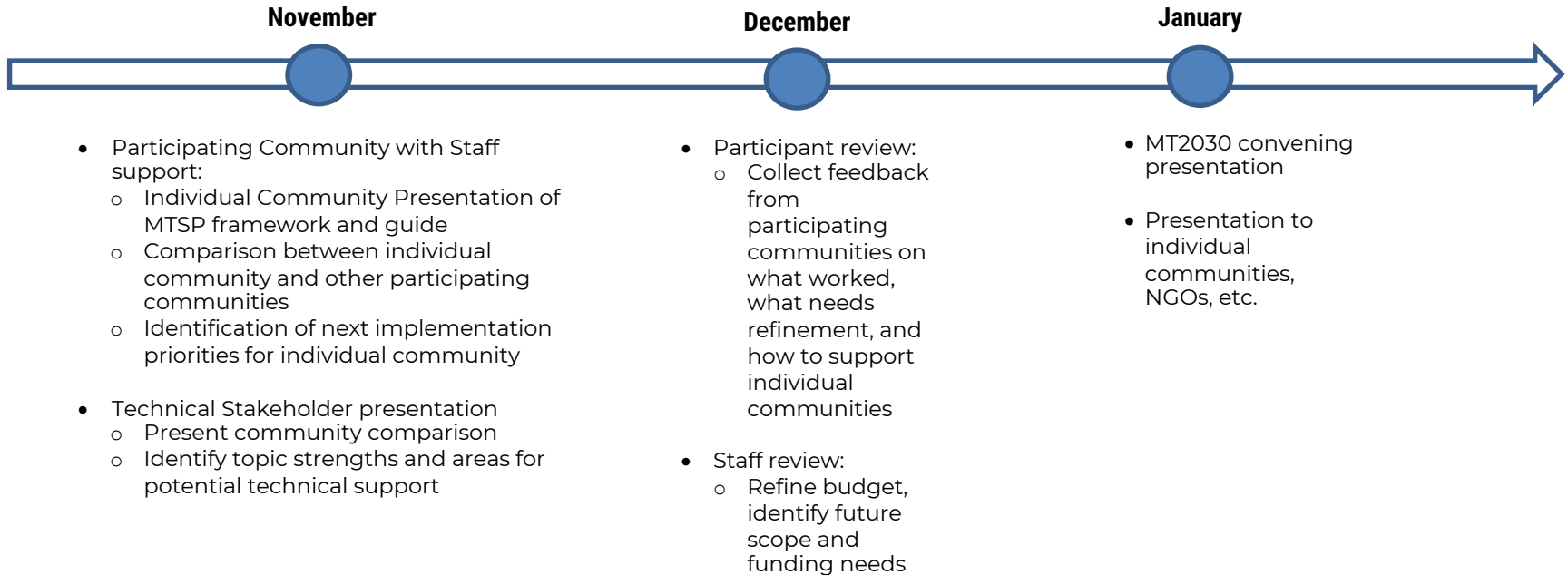
Example



Example



Example



Next Steps

- Sign up for MTSP. Email: luke@mt2030.org
- We will follow up with program details and framework
- Please let us know by **APRIL 1st**

