Action steps

Contents

Goal 1 — Clean transportation

Connect and serve all people through a safe, equitable, and sustainable transportation system.

Initiative 1.1: Travel options

Maintain and improve multimodal transportation connections to improve mobility and reduce emissions.

Subinitiative	Action step	LEAD	ENACT	ENCOURAGE
1.1.1 Increase active travel by making transportation network improvements that make walking, rolling biking and taking transit safe, attractive, and accessible for all.	1.1.1.1 Prioritize transportation projects across the state that include facilities for people to walk, bike, roll and take transit — supporting quality of life, economic vitality, public health, and tourism.	✓		✓
	1.1.1.2 Evaluate funding priorities and restrictions and direct more resources to active travel network improvements and design elements such as bike racks, repair stations, designated bike parking areas, and green infrastructure.	✓	✓	✓
	1.1.1.3 Pilot projects that demonstrate improvements for people to walk, bike, roll, and take transit to evaluate permanent upgrades.	✓		✓
	1.1.1.4 Develop cost-sharing and partnership opportunities for developers, employers, and communities to include spaces for people to walk, bike, roll, take transit, and use shared mobility services such as carshare.	✓		✓
	1.1.1.5 Implement MnDOT resources, guidance, and technical assistance for local partners, such as elected officials, engineers, community advocates, to support integration of a Complete Streets approach into transportation projects that provides appropriate space for all users.	✓		
	1.1.1.6 Accelerate the buildout of sidewalks, bike lanes, and trails, following the priorities in the current statewide bike system plan.	✓	✓	✓

Subinitiative	Action step	LEAD	ENACT	ENCOURAGE
1.1.2 Shorten trip distances and improve access to key destinations, including workplaces, business districts, schools, neighborhoods, and recreation areas, by requiring and incentivizing land use policies that encourage compact and multimodal-oriented development.	1.1.2.1 Work with partners to remove barriers to the development of more transit-accessible, affordable, multifamily housing options for Minnesota homeowners and renters, for example by legalizing missing-middle housing near frequent transit and eliminating parking minimums, to support efficient land use, transportation access, and public health.	✓	✓	✓
	1.1.2.2 Provide technical assistance to local partners to reduce emissions and mitigate climate-related impacts through land use and zoning updates, such as policies that encourage compact development, transit-oriented development, green infrastructure, and a range of travel options to support climate resilience and sustainability, in their comprehensive plans.	✓		✓
	1.1.2.3 Update Minnesota Department of Transportation's project prioritization process in collaboration with metropolitan planning organizations to prioritize projects that enhance transit-oriented and walkable land uses, with consideration for cost- and traffic-burdened communities, formerly redlined areas, and environmental justice areas.	✓		✓
1.1.3 Increase high occupancy travel by expanding transit service and shared mobility options, such as carshare, shuttles, carpools, and vanpools.	1.1.3.1 Give priority to high occupancy vehicles, such as light rail, bus rapid transit, city buses, and carpools, on highways, freeways, and major streets	✓		✓
	1.1.3.2 Make transit more reliable and convenient, focusing first on communities with fewer transportation options and higher exposure to air pollution.	✓		✓
	1.1.3.3 Expand and improve multimodal options within and between cities and regions, such as intercity passenger rail and bus.	✓	✓	
1.1.4 Make it easier for people to choose options other than driving alone through education, communications, and incentives.	1.1.4.1 Expand youth and adult education programs in schools and communities, such as Safe Routes to School, that explain the environmental, health, and economic benefits and demonstrate planning for and the safe use of active transportation and transit options to help people be more prepared, confident, and informed about using a variety of travel modes in their community and across the state.	✓		✓
	1.1.4.2 Create a centralized online and print resource for residents and visitors to understand the active and high-occupancy travel options that exist in their community and how to plan, schedule or book, and take trips using a variety of travel modes.	✓		✓
	1.1.4.3 Expand current programs and introduce new incentives at the state and local levels that reduce the upfront cost of active and high-occupancy travel options — like subsidized or free transit passes, commuter rewards, and e-bike incentives offered at the time of purchase.	✓	✓	✓
	1.1.4.4 Reduce the need to travel by supporting telework and telehealth through strategies such as expansion of broadband, particularly in rural and underserved areas.	✓	✓	✓

Initiative 1.2: Clean and efficient vehicles

Accelerate the transition to electric vehicles (EVs) or zero-emission vehicles (ZEVs) and advanced clean fuels.

Subinitiative	Action step	LEAD	ENACT	ENCOURAGE
1.2.1 Reduce the lifecycle carbon intensity of transportation fuels.	1.2.1.1 Develop a clean transportation standard aligned with state climate goals to incentivize increased investment in a broad portfolio of cleaner fuels — including advanced biofuels, renewable natural gas, other renewable fuels, sustainable aviation fuel, electricity from renewable sources, and charging infrastructure — ensuring policy avoids environmental harms such as land conversion, water pollution, and loss of biodiversity.	✓	✓	
	1.2.1.2 Follow the Governor's Council on Biofuels recommendations that focus on advancing cleaner liquid fuels, for harder to electrify vehicles.	✓		✓
1.2.2 Expand zero-emission vehicle charging infrastructure.	1.2.2.1 Implement the Minnesota Electric Vehicle Infrastructure Plan and recommendations in the Minnesota Electric Vehicle Infrastructure Needs Assessment (EVINA) which include actions to increase EV charging infrastructure, increase EV access and availability, support EV workforce development, and educate communities about the benefits of EVs.	✓		✓
	1.2.2.2 Coordinate with neighboring states, Tribal Nations, and other potential partners to implement the Regional Electric Vehicle (REV) Midwest Memorandum of Understanding and develop a regional medium- and heavy-duty electric truck charging network.	✓		
	1.2.2.3 Increase funding for medium- and heavy-duty vehicle charging, including transit.	✓	✓	✓
	1.2.2.4 Provide more funding and technical support and remove barriers for site hosts of Level 2 chargers, DC fast chargers, and fleet charging hubs.	✓	✓	✓
	1.2.2.5 Create opportunities to better connect co-ops, municipal utilities, and investor-owned utilities to discuss best practices related to EV chargers.	✓		✓
	1.2.2.6 Engage fuel providers to understand the role they would like to play in EV charger deployment.	✓		✓
	1.2.2.7 Implement forthcoming state building code updates to support accessible EV charging and make new construction, substantial retrofits, and commercial buildings EV-ready.	✓		
	1.2.2.8 Coordinate with state and federal agencies to identify opportunities for battery recycling and reuse.	✓		

Subinitiative	Action step	LEAD	ENACT	ENCOURAGE
1.2.3 Accelerate the adoption of light-duty electric vehicles.	1.2.3.1 Develop dealer and salesperson recognition and incentive programs, building off efforts like the Xcel Energy Gold Status Dealer program.	✓		✓
	1.2.3.2 Set EV targets for light-duty vehicles in government fleets and promote targets for private, corporate fleets.	✓	✓	✓
	1.2.3.3 Create income-based car swap programs to replace older vehicles with EVs.	✓	✓	✓
	1.2.3.4 Offer rebates at time of purchase for new and used EVs.	✓	✓	✓
	1.2.3.5 Adopt stronger fuel economy and emissions standards for vehicles.		✓	
1.2.4 Transition to medium- and heavy-duty zero emission trucks (ZETs).	1.2.4.1 Set ZET targets for medium- and heavy-duty vehicles in local and state government fleets and promote targets for private, corporate fleets.	✓	✓	✓
	1.2.4.2 Incentivize the retirement of inefficient vehicles and replacement with ZETs.	✓	✓	✓
	1.2.4.3 Explore options for transitioning to medium- and heavy-duty ZETs, including school bus fleets.	✓		✓
1.2.5 Transition to zero-emission off-road vehicles, engines, and equipment.	1.2.5.1 Develop a marketing campaign in collaboration with stakeholders to improve consumer understanding of zero-emission off-highway equipment.	✓		✓
	1.2.5.2 Offer rebates and other incentives to replace old, inefficient off-road vehicles, engines and equipment.	✓	✓	✓
	1.2.5.3 Launch a public education campaign on the benefits of zero-emission off-road vehicles and equipment like lawn mowers, ATVs, and forklifts.	✓		✓

Initiative 1.3: Resilient and low-carbon infrastructure and system management

Maximize resiliency and emissions mitigation in infrastructure and operations.

Subinitiative	Action step	LEAD	ENACT	ENCOURAGE
1.3.1 Optimize transportation system management and operations to reduce peak demand, enhance safety, and improve reliability.	1.3.1.1 Evaluate transportation planning strategies that reduce the demand for highways to reduce emissions and congestion.	✓		✓
	1.3.1.2 Encourage local governments to implement transportation demand management policies.			✓
	1.3.1.3 Increase the installation of snow fencing and other resilient infrastructure such as vegetative buffers that reduce winter maintenance, improve safety, and support sustainability co-benefits.	✓		✓
	1.3.1.4 Reduce emissions and environmental impacts during all phases of project development including scoping, pre-design, design, bidding, installation and maintenance.	✓		✓
1.3.2 Design the transportation system to be resilient to climate hazards.	1.3.2.1 Coordinate with partners to implement green infrastructure to manage stormwater and support transportation infrastructure resilience to extreme weather, while also enhancing carbon sequestration, reducing urban heat, and improving air and water quality.	✓		✓
1.3.3 Utilize low-carbon materials and methods for constructing and maintaining transportation infrastructure.	1.3.3.1 Prioritize the reuse of materials throughout construction process to minimize the carbon footprint of transportation construction projects.	✓		✓
	1.3.3.2 Prioritize the cost effectiveness of reducing emissions throughout the construction process (e.g., distance for materials to travel, variety of materials and mixes used on a site), while considering lifecycle emissions and long-term durability.	✓		✓
1.3.4 Utilize the transportation system right-of-way for alternative beneficial uses to support sustainability, public health, quality of life, and economic development.	1.3.4.1 Expand early coordination to support transmission projects co-locating in highway right-of-way to support the renewable energy transition.	✓		✓
	1.3.4.2 Coordinate carbon sequestration efforts within highway right-of-way.	✓		✓
	1.3.4.3 Examine and coordinate the installation of renewable energy within transportation rights-of-way.	✓		✓
	1.3.4.4 Explore partnerships that prioritize local community needs in transportation right of way to improve walking and biking, enhance safety, improve access to jobs and key destinations, support economic vitality, and improve quality of life for underserved, disadvantaged, or overburdened communities across the state of Minnesota.	✓		✓

Goal 2 — Climate-smart natural and working lands

Manage landscapes to absorb and store more carbon, reduce emissions, and sustain healthy and resilient lands and waters.

Initiative 2.1: Carbon sequestration and storage in forested lands, grasslands, and wetlands

Manage forests, grasslands, and wetlands for increased carbon sequestration and storage.

Subinitiative	Action step	LEAD	ENACT	ENCOURAGE
2.1.1 Maintain, expand, and actively manage forestlands.	2.1.1.1 Accelerate tree planting to expand forest cover where ecologically appropriate.	✓		✓
	2.1.1.2 Increase statewide seedling production to support tree planting efforts, including rectifying pinch points in seed supply and enhancing production of climate-adapted species.	✓		✓
	2.1.1.3 Invest in active forest management on public and private lands to promote carbon uptake, lower the risk of wildfires, and reduce impacts of forest pests and diseases.			✓
	2.1.1.4 Avoid conversion of forestland to other uses through private forest landowner assistance; forestland acquisition; working forest conservation easements; other incentives to maintain forestland (and disincentives to conversion); and sustainable forest management, including timber harvest.	✓		✓
2.1.2 Protect, restore, and manage peatlands and other wetlands.	2.1.2.1 Develop and implement additional tools, strategies, and action to further advance peatland restoration and protection from drainage or conversion to other land uses.	✓		✓
	2.1.2.2 Strengthen partnerships with Tribal Nations and local governments to conserve and restore peatlands, including developing and sharing technical assistance on restoration of drained peatlands on public and private lands.	✓		
	2.1.2.3 Identify peatlands that can effectively be restored to stable hydrologic conditions, to increase resilience of these landscapes to the effects of climate change.	✓		
	2.1.2.4 Protect and restore existing peatlands and other wetlands from drainage or conversion to other land uses through conservation easements, wetland banking, and other land management programs and tools.	✓	✓	✓

Subinitiative	Action step	LEAD	ENACT	ENCOURAGE
2.1.3 Protect, restore, and manage grasslands.	2.1.3.1 Protect native prairie and prairie pothole wetlands as well as restored grasslands and wetlands through fee title acquisition of public lands and easements on private lands.	✓	✓	
	2.1.3.2 Use climate-adapted and diverse seed mixes in grassland and wetland restoration.	✓		✓
	2.1.3.3 Enhance and manage existing grasslands and wetlands.	✓		✓
	2.1.3.4 Avoid grassland conversion, especially as a potential unintended consequence in the development of other climate policies.	✓		✓
2.1.4 Encourage individual and collective actions that generate climate mitigation benefits.	2.1.4.1 Promote and incentivize individual and collective actions on natural and working lands such as establishing pollinator and prairie plantings, enhancing shorelines, and planting trees and shrubs that produce meaningful climate mitigation and adaptation benefits.	✓		✓
	2.1.4.2 Incorporate climate mitigation and adaptation into nature-focused K-12 educational content to enhance climate literacy.			✓

Initiative 2.2: Resilient landscapes and ecosystems

Enhance the ability of plants and wildlife to adapt to the effects of climate change.

Subinitiative	Action step	LEAD	ENACT	ENCOURAGE
2.2.1 Conserve and enhance biodiversity.	2.2.1.1 Restore and expand habitat complexes and corridors to protect wildlife and allow species to shift their range.	✓		✓
	2.2.1.2 Work with Tribal and local governments and consult relevant Tribal, state, and local planning documents in developing regional and local land conservation plans, identifying priority locations for habitat protection, enhancement, and restoration.	✓		
	2.2.1.3 Manage invasive species through conservation and recreation partnerships and outreach to promote climate resilience.	✓		✓
	2.2.1.4 Foster individual and collective actions that conserve and enhance biodiversity and build resilience in natural and working lands, such as increased use of native plants and other beneficial vegetation in residential and commercial settings.	✓		✓
2.2.2 Use land management practices that enhance climate resilience.	2.2.2.1 Increase native species diversity in grassland and wetland restoration using locally appropriate seed mixes expected to do well under projected climate conditions.	✓		✓
	2.2.2.2 Plant, seed, or promote tree species expected to do well under projected climate conditions.	✓		✓
	2.2.2.3 Enhance the ability of forests to adapt to climate change by using sustainable forest management strategies that maintain a balance of forest ages and species across the landscape.	✓		✓
	2.2.2.4 Enhance statewide preparedness for responding to and recovering from more frequent large-scale forest disturbances such as wildfires, floods, and wind events.	✓		✓

Initiative 2.3: Healthy farmland

Accelerate soil health and nitrogen and manure management practices that reduce emissions and enhance carbon storage, water quality, and habitat.

Subinitiative	Action step	LEAD	ENACT	ENCOURAGE
2.3.1 Increase soil organic carbon content and reduce erosion.	2.3.1.1 Increase incentives for practices such as cover crops, conservation tillage, diverse crop rotations, buffers, shelterbelts, hedgerows, and perennial crops that sequester carbon and increase resilience by restoring soil health.	✓	✓	✓
	2.3.1.2 Investigate feasibility, create standards, and develop programs for use of biochar and compost on cropland, pastureland, and forestland.	✓	✓	✓
	2.3.1.3 Expand incentive programs for farmers to preserve woodlands and incorporate new trees and natural habitat into agricultural landscapes, where ecologically appropriate, to protect against wind and water erosion and store carbon.	✓	✓	✓
	2.3.1.4 Avoid conversion of prime farmland to development (residential, industrial, and energy generation) and promote more compact and efficient land use planning and development.	✓	✓	✓
2.3.2 Manage fertilizer and manure to reduce emissions.	2.3.2.1 Encourage and incentivize nitrogen and methane management practices that will reduce emissions through grants, education, the Minnesota Nutrient Reduction Strategy, and the Groundwater Protection Rule.	✓	✓	✓
	2.3.2.2 Increase use of nitrogen management practices that will improve nitrogen use efficiency and reduce nitrous oxide emissions, such as nitrification inhibitors, split-N applications, precision agriculture, plant selection and breeding, soil amendment technologies and others.	✓	✓	✓
	2.3.2.3 Develop and implement programs supporting adoption of methane reduction activities related to livestock and manure, such as livestock feed management, anaerobic digestion, manure storage covers and flares, and acidification management of manure storage.	✓	✓	✓

Subinitiative	Action step	LEAD	ENACT	ENCOURAGE
2.3.3 Manage farmland for multiple benefits.	2.3.3.1 Increase the range of compatible uses of conserved lands such as haying, grazing, or tree crops to increase participation in land conservation and easement programs.	✓		✓
	2.3.3.2 Promote and expand conversion of marginal farmland to pastureland, perennial crops, woodland, and forage crops to enhance carbon capture, water quality protection, and wildlife habitat through easement programs.	✓		✓
	2.3.3.3 Promote and fund production forestry, food forests, short rotation woody crops, and using trees as windbreaks or riparian buffers in agricultural settings where ecologically appropriate.	✓	✓	
	2.3.3.4 Increase funding for climate-resilient agricultural and forestry implementation assistance, such as access to technologies, equipment, and seed and plant material.		✓	
	2.3.3.5 Provide support to farmers to adopt practices that decrease emissions, improve soil health, sequester carbon and improve water quality, through programs like the Minnesota Agricultural Water Quality Certification Program or similar programs.	✓	✓	✓
	2.3.3.6 Expand research and opportunities for agrivoltaics.	✓		✓

Initiative 2.4: Sustainable landscapes and water management

Improve climate resiliency through multi-purpose water storage and management practices.

Subinitiative	Action step	LEAD	ENACT	ENCOURAGE
2.4.1 Manage agricultural landscapes to minimize nitrogen runoff and pollution.	2.4.1.1 Prioritize groundwater and drinking water protection in vulnerable areas.	✓	✓	✓
	2.4.1.2 Protect, restore, and enhance priority Drinking Water Supply Management Areas through implementation of continuous living cover practices, including perennial cover and annual crops that keep the soil covered year-round.	✓		✓
	2.4.1.3 Protect, restore, and enhance wetlands to absorb, filter, and use excess nutrients and help recharge and protect groundwater and drinking water.	✓		✓
	2.4.1.4 Implement the Nitrogen Fertilizer Management Program in vulnerable areas as defined by township testing results.	✓		✓
	2.4.1.5 Promote fertilizer and manure application practices that minimize nitrogen loss through implementation of the Feedlot Rule and General Permit.	✓		
2.4.2 Manage natural and working lands to hold water and reduce runoff.	2.4.2.1 Increase water storage, infiltration, and drainage management to reduce runoff, prevent depletion of aquifers, and minimize downstream flooding, erosion, and habitat loss.	✓		✓
	2.4.2.2 Restore natural stream stability where possible, to reduce erosion, increase habitat diversity, and decrease maintenance and infrastructure costs, while building resilience to future flooding threats.	✓		✓
	2.4.2.3 Assist local government units with identifying and prioritizing locations, funding, and options for water storage as part of watershed planning, emphasizing practices such as wetland and floodplain restoration, drainage water management, and buffer establishment.	✓		
	2.4.2.4 Encourage water recycling where feasible to sustain aquifers and lessen demands on drinking water supplies.	✓		✓
	2.4.2.5 Encourage multipurpose drainage design and retrofitting in line with future climate projections that provide adequate drainage capacity, while reducing downstream peak flows, erosion, and sedimentation and improving water quality and aquatic habitat.	✓		✓
	2.4.2.6 Retain and manage forests, grasslands, and wetlands to slow run-off, store rainwater and snowmelt, and reduce flood risk — buffering against the negative impacts of changing precipitation patterns.	✓		✓

Initiative 2.5: Enhanced investments in emerging crops, products, and local economies

Invest in and support research in emerging agricultural and forest products, reduce waste and expand economic opportunities.

Subinitiative	Action step	LEAD	ENACT	ENCOURAGE
2.5.1 Increase sustainable agricultural production systems and develop markets for climate-benefitting products.	2.5.1.1 Invest in new markets and supply chains for perennial crops, cover crops that keep soil covered year-round, small grains, legumes, and other alternative crops to support crop diversification through programs such as the Developing Markets for Continuous Living Cover Crops program and other state programs.	✓	✓	✓
	2.5.1.2 Support and expand genetic and agronomic research and market/supply-chain development for crops that increase carbon sequestration, have lower lifecycle greenhouse gas emissions, require less water, reduce nitrogen loss, and improve landscape resiliency and adaptation.			✓
	2.5.1.3 Identify opportunities for farmers and landowners to participate in ecosystem services markets (e.g., for carbon removal, flood protection, and water quality) that incentivize best management practices for climate mitigation and adaptation.	✓		✓
	2.5.1.4 Support development, production, and use of farm inputs with lower lifecycle greenhouse gas emissions, such as fertilizers, fuels, chemicals, animal feeds, and other products.	✓		✓
	2.5.1.5 Advance the production of sustainable aviation fuel by promoting agricultural, waste wood, and wood residual feedstocks that achieve low-carbon intensity scores and high environmental co-benefits.	✓		✓
2.5.2 Promote the use of wood products and residual forest products to store carbon and reduce greenhouse gas emissions.	2.5.2.1 Enhance markets for existing long-lived wood products that increase carbon storage and replace more fossil-fuel-intensive materials.		✓	
	2.5.2.2 Stimulate markets for emerging forest products — such as engineered wood, biofuels, biochemicals, and environmental remediation products — that can reduce greenhouse gas emissions by providing a low-carbon alternative to fossil-fuel-intensive products.			✓
	2.5.2.3 Incentivize beneficial uses of waste wood and wood residuals (e.g., waste wood resulting from insects and disease, harvest residuals, and sawdust) to diversify forest products markets and substitute for fossil-fuel-intensive energy sources.			✓
	2.5.2.4 Increase competitiveness of lower-value wood products that are generated from thinning and other climate adaptation management practices.	✓		✓

Subinitiative	Action step	LEAD	ENACT	ENCOURAGE
	2.5.2.5 Launch consumer education campaigns to tell the story of Minnesota's harvested wood products and their role in meeting the state's climate mitigation and adaptation goals.	✓		
2.5.3 Support local food markets, urban agriculture, and emerging farmers.	2.5.3.1 Promote Tribal, local, and community-based agriculture to boost economic vitality and increase healthy, fresh food access, especially in underserved communities.	✓		✓
	2.5.3.2 Continue and expand efforts to support emerging farmers and agricultural/food entrepreneurs, with particular attention to advancing inclusion and equity.	✓		✓
	2.5.3.3 Explore and promote greenhouse gas emissions reductions in Tribal and local food systems.	✓		✓
	2.5.3.4 Create opportunities to integrate perennial crops, small grains, legumes, and other alternative crops into farm-to-institution programs.	✓		✓
2.5.4 Reduce waste and promote beneficial use of food and organic materials.	2.5.4.1 Support local governments with guidance and resources to conduct public education campaigns such as prevention of wasted food and zero waste challenges.			✓
	2.5.4.2 Incentivize and reduce barriers for local and regional food donation, food rescue, food-to-animal programs, and related efforts that prevent food waste and manage food scraps.	✓		✓
	2.5.4.3 Increase organics recycling through support of programs and infrastructure, addressing barriers to equitable participation, and promotion of organics recycling end-products for soil amendments, energy, and other beneficial uses.	✓		✓

Goal 3 — Resilient communities

Ensure all Minnesota communities are prepared for, can respond to, and can recover from present and future climate impacts, including extreme weather.

Initiative 3.1: Climate-smart communities

Build Minnesota communities' capacity to protect against and withstand the effects of climate change.

Subinitiative	Action step	LEAD	ENACT	ENCOURAGE
3.1.1 Support communities in the development of climate resilience plans.	3.1.1.1 Provide training and tools to identify climate risks and prioritize actions to build resiliency for local and Tribal governments, with a focus on preparing first responders, essential workers, elected officials, regional development commissions, public employees, unions, and other community leaders.	✓		✓
	3.1.1.2 Develop and expand community-specific climate resilience guidance and criteria for and with communities, utilizing the GreenStep Cities and Gold Leaf Challenge programs and other resources.	✓		✓
	3.1.1.3 Create and maintain an interactive, comprehensive website that improves centralized access to up-to-date climate resilience planning information, data, resilience hub locations and services, and funding opportunities.	✓		✓
	3.1.1.4 Increase peer learning and communities of practice around resilience best practices through the GreenStep Cities and Gold Leaf Challenge programs and expand pilot programs for Tribal Nations, schools, and additional jurisdictions including counties, townships, and watershed management organizations.	✓		✓
	3.1.1.5 Coordinate with the University of Minnesota Climate Adaptation Partnership and other partners to promote climate resilience planning training and tools, including the CliMAT climate modeling data tool and the Minnesota Climate Explorer.	✓		✓
	3.1.1.6 Supply educational resources and trainings to support communities and local leaders, teachers, and influencers to improve public understanding of local climate impacts and adaptation actions.	✓		✓
	3.1.1.7 Develop a method that engages Minnesotans and communities in data collection and implementation of community-informed resilience metrics that identify baselines, set clear objectives, and evaluate capacity, scalability, and cost-effectiveness of future actions.	✓		✓
	3.1.1.8 Foster partnerships between local governments and trusted community-based organizations and groups to co-develop resilience plans that incorporate and include community members in responding to community-identified needs for resilience hubs, infrastructure, and more.	✓		✓

Subinitiative	Action step	LEAD	ENACT	ENCOURAGE
3.1.2 Fund planning and implementation for resilience and adaptation actions through multiple sources.	3.1.2.1 Establish dedicated funding for local, regional, and statewide climate resiliency capacity, assessments, planning, implementation, maintenance, data monitoring, and analysis.	✓	✓	✓
	3.1.2.2 Explore opportunities for long-term, dedicated sources of state funding such as bonds, sales tax, grant programs, and trust funds to support local, regional, Tribal, and statewide resilience priorities	✓	✓	✓
	3.1.2.3 Expand public/private financing and philanthropic opportunities, such as revolving loan funds, for climate resilience and adaptation planning and implementation.	✓	✓	✓
	3.1.2.4 Provide funding for climate resilience programs, including climate planning, technical assistance, and implementation that would also support climate-ready schools, resilience hubs, community forestry resilience, and expanded state and local staff capacity and expertise.	✓	✓	✓
	3.1.2.5 Increase financial assistance for local, regional, Tribal, and state disaster mitigation, preparedness, response, and recovery, such as the MPCA Resilient Communities Grant Program, the DNR Flood Hazard Mitigation Grant Program, and the DPS Disaster Assistance Contingency Account.	✓	✓	✓
3.1.3 Integrate climate resilience into local, regional, and state planning.	3.1.3.1 Guide and support local, regional, state, and Tribal planning processes (e.g., comprehensive, land use, transportation, parks, water management) to reduce risk and improve insurability by increasing Minnesota's resilience to climate change.	✓		✓
	3.1.3.2 Support counties to integrate adaptation strategies into county hazards mitigation plans, using Minnesota's state hazard mitigation plan as a guide.	✓		✓
	3.1.3.3 Work with emergency managers and existing programs such as Community Emergency Response Teams, county hazard mitigation teams, and the Red Cross and provide direct assistance to under-resourced communities to ensure all have a robust preparedness plan for extreme weather events, including contingencies for multiple events.	✓	✓	✓
	3.1.3.4 Use best-available science and modeling, such as high-resolution, dynamically downscaled climate projections, to inform planning and design efforts across Minnesota.	✓	✓	✓
	3.1.3.5 Develop statewide maps to improve understanding of climate risks and vulnerabilities and encourage development and updates to local maps.	✓		
	3.1.3.6 Increase research on projected weather data and additional climate hazards (e.g., extreme heat, derechos, freeze-thaw cycles) to improve modeling and assess financial impacts and opportunities.	✓		✓
	3.1.3.7 Collaborate with natural resource managers and technical service providers on public and private lands in high-risk communities to integrate wildfire prevention and mitigation planning, and implementation into land management efforts to reduce wildfire risk, improve evacuation routes, and support emergency response.	✓		✓

Initiative 3.2: Healthy community green spaces and water resources

Expand and protect tree canopies, parks and other green spaces, and lakes, rivers, and wetlands that provide multiple community resilience benefits.

Subinitiative	Action step	LEAD	ENACT	ENCOURAGE
3.2.1 Advance community forestry.	3.2.1.1 Encourage preservation of mature trees through heritage tree preservation and management policies and programs on public and private lands.	✓		✓
	3.2.1.2 Provide financial assistance for the management of community tree canopies, including treatment, removal, and replacement of storm damaged, diseased, and infested trees and proper disposal at the local or regional level.	✓	✓	✓
	3.2.1.3 Assess community tree canopy cover and other tree baseline data across the state to help communities track and measure tree canopy goals.	✓		✓
	3.2.1.4 Promote tree inventory data tools for communities, including Tree Equity Score, Metropolitan Council's Growing Shade tool, United States Forest Service TreeCanopy.US tool, and the University of Minnesota's Land Cover and Urban Tree Canopy tools.	✓		✓
	3.2.1.5 Increase community tree canopy coverage through plantings, increased capacity for tree care and forestry, and tree care education, job training, and community-led planning and decision-making.	✓		✓
	3.2.1.6 Grow and maintain Minnesota climate-adaptive shade trees in communities.	✓		✓
	3.2.1.7 Prioritize community forestry actions in disproportionately impacted communities that decrease building energy use, mitigate heat islands, reduce hazards from dead and dying trees, and replace removed trees.	✓		✓

Subinitiative	Action step	LEAD	ENACT	ENCOURAGE
3.2.2 Plant vegetation on public and private green spaces that benefits climate resiliency and adaptation.	3.2.2.1 Provide education, technical assistance and funding to establish and maintain climate resilient plantings including pollinator gardens, prairies, woodlands, food forests, shoreline plantings, lawn alternatives, and community agriculture in parks, community gardens, schools, and other public spaces.	✓	✓	✓
	3.2.2.2 Provide education, technical assistance, and funding to expand the capacity of Minnesota residents, with an emphasis on the next generation of stewards, to establish native vegetation in yards, shorelines, and naturalized areas to support pollinators, sequester carbon, and increase climate resilience.	✓	✓	✓
	3.2.2.3 Promote incorporation of native vegetation as part of ground-mounted solar development to support pollinators and biodiversity.	✓		✓
	3.2.2.4 Build greater awareness of invasive species among residents and increase management efforts to increase the resilience of ecosystems and native species and provide habitat and water quality benefits.	✓		✓
3.2.3. Protect and improve water quality and manage water quantity to support community resilience.	3.2.3.1 Protect and increase water storage to reduce community flooding, improve water quality, and retain water during seasonal droughts.	✓		✓
	3.2.3.2 Improve water quality in communities through watershed-scale planning and targeting of priority areas.	✓		✓
	3.2.3.3 Protect and restore natural shorelands and riparian corridors by updating state and local regulations, increasing technical assistance, and strengthening state-local partnerships.	✓	✓	✓

Initiative 3.3: Resilient infrastructure

Increase climate resilience in the built environment.

Subinitiative	Action step	LEAD	ENACT	ENCOURAGE
3.3.1 Assess climate vulnerabilities of public facilities and infrastructure, giving priority to essential and critical assets, especially in overburdened communities.	3.3.1.1 Identify locations subject to localized and large-scale adverse weather events by accelerating updates to weather data, expanding indicators, and developing maps statewide using advanced technologies (e.g., LiDAR) and improved forecasting through the DNR Floodplain Management program and other resources.	✓		
	3.3.1.2 Assess public infrastructure vulnerability using mapping tools, update the Minnesota Infrastructure Stress Transparency Tool, and provide training to local leaders.	✓		
	3.3.1.3 Prioritize infrastructure improvements and maintenance that enhance resilience.	✓		✓
3.3.2 Modify programs, technical assistance, and regulations to address climate impacts and encourage adaptation.	3.3.2.1 Develop and incorporate policies and provisions in construction and remodeling codes that prioritize resilient design standards and other best practices to adapt critical facilities and infrastructure.	✓	✓	
	3.3.2.2 Engage communities in the development of design standards, guidance, and establish data collection and monitoring for resilience hubs that consider the site and location, and include independent power capability, air cooling and filtration, provisions, communications infrastructure, and other community-specific needs.	✓	✓	✓
	3.3.2.3 Update the state floodplain management rules and streamline local ordinance enforcement for critical facilities, mitigating risk in areas beyond currently mapped floodplain areas, and encouraging no net loss of floodplain storage in response to projected climate conditions.	✓	✓	
	3.3.2.4 Improve guidance, model ordinances, and technical support to ensure that local government units adopt, administer, and enforce the most recent zoning provision required by state law (e.g., shoreland development, floodplain management, land preservation).	✓		✓
	3.3.2.5 Accelerate local adoption of floodproofing rules that meet or surpass minimum requirements of the most recent national and state standards (ASCE 24-24 Flood Resistant Design and Construction).	✓		✓
	3.3.2.6 Develop and incorporate design standards and guidance to reduce wildfire risk in the wildland-urban interface of rural forested communities and encourage Community Wildfire Protection Plans and Firewise participation.	✓		✓

Subinitiative	Action step	LEAD	ENACT	ENCOURAGE
3.3.3 Increase the resilience of existing infrastructure and redevelopment.	3.3.3.1 Design and build transportation infrastructure to withstand extreme weather impacts such as increased precipitation and snow/ice melt, more frequent freeze/thaw cycles, and extreme heat.	✓		✓
	3.3.3.2 Incorporate resilient design and nature-based solutions in state, public, and critical facilities and services and avoid siting them in high-risk areas.	✓		✓
	3.3.3.3 Accelerate implementation of resilient energy systems such as community- and neighborhood-scale microgrids, renewable energy, batteries, and thermal energy networks for heating and cooling, prioritizing under-resourced or environmental justice areas.	✓	✓	✓
3.3.4 Expand stormwater system capacity and green infrastructure to prevent flooding.	3.3.4.1 Provide funding and technical assistance to establish and maintain nature-based solutions and other stormwater capacity systems in communities to protect buildings and infrastructure in flood-prone areas.	✓	✓	✓
	3.3.4.2 Increase incentives for the use of green stormwater infrastructure practices in developments within state stormwater permitting and financial assistance programs.	✓	✓	✓
	3.3.4.3 Promote water storage and reuse into stormwater management to hold or distribute water during and after large precipitation or snow/ice melt events, including restoring wetlands to support water storage in flood-prone areas, to protect buildings and infrastructure and support watershed health.	✓		✓
	3.3.4.4 Promote and incentivize on-site stormwater management in urban areas, such as permeable pavers/pavement or de-pavement, rain-barrels, rain gardens, and planting native trees and plants.	✓		✓
	3.3.4.5 Design and build infrastructure to manage stormwater and to improve long-term flood resiliency, including promoting natural flow distribution and aquatic organism passage.	✓		✓
3.3.5 Mitigate extreme heat and implement actions that help communities adapt.	3.3.5.1 Provide funding and technical assistance to help communities mitigate excessive heat and reduce heat islands through strategies such as green roofs, shade structures, and tree planting, while prioritizing people at greater risk of climate change-related harms.	✓	✓	✓
	3.3.5.2 Develop new and improve existing cooling centers and resilience hubs that provide safe, powered, and climate-controlled spaces.	✓	✓	✓

Subinitiative	Action step		LEAD	ENACT	ENCOURAGE
3.3.6. Advance sustainable land use and new development that incorporates resilience.	3.3.6.1	Provide technical assistance and funding for local and regional economic development and community energy transition to help communities and small businesses adapt to climate change impacts and transition their services (e.g., tourism, sports, recreation).	✓	✓	✓
	3.3.6.2	Ensure that community infrastructure and services are powered and maintained to withstand climate- and weather-related impacts.	✓		✓
	3.3.6.3	Incentivize dense infill development in communities, including clean-up and beneficial reuse of brownfields, to use land and infrastructure efficiently, support on-site electricity generation, limit sprawl, increase multimodal transportation, and reduce travel distances to goods, services, and neighboring communities.	✓	✓	✓
	3.3.6.4	Develop design standards and requirements for infill development projects in communities that include resilient strategies such as neighborhood-scale thermal energy networks for efficient heating and cooling, electric vehicle charging conduit, transportation hubs, and stormwater design.	✓	✓	✓

Goal 4 — Clean energy

Implement Minnesota's 100% carbon-free electricity by 2040 law and set a course for long-term, sustainable use of clean energy in the state.

Initiative 4.1: Enhanced and resilient grid infrastructure

Promote electrical grid and transmission upgrades to enable greater reliability and renewable energy access.

Subinitiative	Action step	LEAD	ENACT	ENCOURAGE
4.1.1 Upgrade transmission and distribution infrastructure and deploy advanced technologies.	4.1.1.1 Accelerate the use of advanced technologies, such as grid-enhancing technologies, that improve capacity, efficiency, and reliability of existing transmission lines.	✓		✓
	4.1.1.2 Improve grid connectivity for small-scale energy generation and storage systems, establish flexible interconnect solutions, and increase transparency in data access.	✓	✓	✓
	4.1.1.3 Fund research and development to better connect carbon-free, distributed energy resources.	✓	✓	✓
	4.1.1.4 Plan for strategically placed transmission improvements that maximize the use of existing corridors and minimize harmful impacts to natural lands.	✓		✓
	4.1.1.5 Support construction of new transmission lines to minimize grid interconnection bottlenecks and maintain exponential growth for renewable energy.	✓		✓
	4.1.1.6 Increase collaboration with other states and advocate at the federal level to improve the transmission system to enhance the electric sector's reliability and resilience.	✓		
4.1.2 Advance innovative utility-scale storage technologies.	4.1.2.1 Support flexible, clean energy storage systems that can deliver power as needed, such as at night or during cloudy, windless days.	✓		✓
4.1.3 Advance distributed generation and storage.	4.1.3.1 Support local, clean energy generation and storage projects that are construction-ready and can be grouped together and utilized as a resource for the grid, such as a virtual power plant.	✓	✓	✓

Initiative 4.2: Clean energy sources

Accelerate deployment of carbon-free energy and reduce reliance on fossil-fuel-generating sources.

Subinitiative	Action step	LEAD	ENACT	ENCOURAGE
4.2.1 Transition to 100% carbon-free electricity and strengthen community and Tribal engagement efforts.	4.2.1.1 Accelerate siting, permitting, and deployment of clean energy projects, prioritizing wind and solar generation, through implementation of the Minnesota Energy Infrastructure Permitting Act.	✓		✓
	4.2.1.2 Increase community and Tribal awareness of and participation in decision-making related to proposed carbon-free energy infrastructure projects through proactive, authentic engagement with the public.	✓		✓
	4.2.1.3 Leverage community and Tribal incentives that build support for clean energy projects, such as tax credits, and community investment shares.	✓	✓	✓
	4.2.1.4 Standardize decommissioning requirements for aging energy infrastructure.	✓	✓	
	4.2.1.5 Include reporting in the biennial greenhouse gas emissions report to the Legislature that shows the emissions of our state's electricity over time as compared to the 100% carbon-free by 2040 law benchmarks	✓		
4.2.2 Accelerate the growth of both large-scale and distributed clean energy generation.	4.2.2.1 Implement the 100% carbon-free electricity by 2040 law considering existing and emerging technologies, the need for programmatic and state support, cost implications, and other barriers to scalability or adoption.	✓	✓	✓
	4.2.2.2 Ensure that energy resources for new large energy users, such as data centers, are adequate and align with the state's clean energy goals.	✓	✓	✓
	4.2.2.3 Create financial incentives to help reduce costs for carbon-free generation projects and enhance successful existing programs.	✓	✓	
	4.2.2.4 Support and fund development of e-waste recycling streams to produce necessary metal components for carbon-free energy.	✓		✓
4.2.3 Strategically repurpose energy generation facilities and associated grid interconnections.	4.2.3.1 Through compliance with the 100% carbon-free electricity by 2040 law, strengthen advocacy at regional and national authorities and organizations (e.g., Federal Energy Regulatory Commission (FERC), Midcontinent Independent System Operator (MISO), etc.).	✓		

Initiative 4.3: Dispatchable clean energy and storage

Deploy clean dispatchable generation and long-duration storage technologies that balance energy supply and demand.

Subinitiative	Action step	LEAD	ENACT	ENCOURAGE
4.3.1 Support demonstration and pilot-scale deployment of new, innovative, dispatchable clean generation and long-duration storage.	4.3.1.1 Fund research and development on long-duration storage opportunities and other clean firm technologies, including monetization mechanisms.			✓
4.3.2 Support full deployment of proven long-duration storage and dispatchable clean generation.	4.3.2.1 Increase funding for demonstrations and pilots of dispatchable clean generation and long-duration storage through Minnesota's state and utility incentive programs, prioritizing pilots in rural and environmental justice areas.	✓	✓	✓
	4.3.2.2 Identify opportunities, including state incentives and other market enhancements, to scale up and fully deploy clean generation and storage technologies, while considering responsible land and water use practices and cost implications to customers.	✓	✓	✓
	4.3.2.3 Research emerging clean firm dispatchable energy advancements and support the deployment of long duration storage.	✓		✓

Goal 5 — Healthy lives and communities

Protect health and advance equity in a changing climate.

Initiative 5.1: Cooler, safer communities

Keep people and places protected from extreme heat's harmful effects.

Subinitiative	Action step	LEAD	ENACT	ENCOURAGE
5.1.1 Make housing safer from extreme heat, more affordable, and easier to access.	5.1.1.1 Strengthen renter home-cooling protections using incentives and policies such as "right to cooling," similar to Minnesota's "right to heating" protections.		✓	✓
	5.1.1.2 Fortify funding and expand enrollment for energy assistance, utility affordability, and installation cost assistance programs so that more people can afford energy-efficient home cooling to protect physical and mental health.	✓	✓	✓
	5.1.1.3 Work with government and community partners to remove obstacles to home pre-weatherization and weatherization programs and share tailored information with key groups such as homeowners' associations and owners of affordable housing.	✓	✓	✓
5.1.2 Advance heat-resilient community planning and building design for health protection.	5.1.2.1 Refine educational resources, provide technical assistance, and deliver trainings for local public health and Tribal health departments to support heat resilience in community planning.	✓		✓
	5.1.2.2 Support agencies and local partners to protect health with built environment and walkable community strategies that reduce heat island effects such as maximizing green space and shading and reducing heat absorbing materials.	✓		✓
	5.1.2.3 Support efforts to adopt building codes that help prepare commercial buildings and homes to withstand climate impacts for health protection.	✓		✓
5.1.3 Make workplaces safer from extreme heat.	5.1.3.1 Track heat-related health effects and gather insights from workers and partners to understand how heat impacts outdoor jobs.	✓		✓
	5.1.3.2 Improve communications of workplace guidelines to protect indoor and outdoor workers from unsafe heat exposure, prioritizing at-risk workers and employers.	✓		✓
	5.1.3.3 Support employers and workers in developing and implementing strategies and infrastructure that protect against unsafe heat exposure during extreme heat events.			✓

Subinitiative	Action step	LEAD	ENACT	ENCOURAGE
5.1.4 Make schools and childcare centers safer from extreme heat.	5.1.4.1 Develop and share heat-safety guidelines with school and childcare centers, and study options for updating standards.	✓		✓
	5.1.4.2 Make schools and childcare centers more climate-resilient by improving infrastructure and adding health protections for extreme heat and poor air quality.		✓	✓
5.1.5 Make group homes, care facilities, shelters, and prisons safer from extreme heat.	5.1.5.1 Work across agencies to make residential facilities more climate-resilient by improving infrastructure and adding health protections for extreme heat and poor air quality.		✓	✓
5.1.6 Advance planning, research, and information sharing for an effective, community-informed extreme heat response.	5.1.6.1 Create a Minnesota Heat Action Plan with research on extreme heat, action steps, and timeline.	✓	✓	
	5.1.6.2 Make tracking data for heat-related illness and death easier to understand and use and share findings with local public health and Tribal health.	✓		✓
	5.1.6.3 Update and share communications materials to help partners understand health risks and improve public awareness of heat safety guidelines and affordable home-cooling techniques.	✓		✓
	5.1.6.4 Develop templates and other tools to help emergency managers, preparedness professionals, Tribal leaders, and local governments prepare for and respond to the impacts of heat.	✓		✓
	5.1.6.5 Study how extreme heat affects mental and behavioral health in Minnesota to better inform prevention strategies and community support efforts.	✓		✓

Initiative 5.2: Protection from poor air quality

Safeguard Minnesotans from air pollution and wildfire smoke and work to reduce overall air pollution.

Subinitiative	Action step	LEAD	ENACT	ENCOURAGE
5.2.1 Inform Minnesotans about the health impacts of poor air quality, wildfires, and wildfire smoke and share health protection guidance.	5.2.1.1 Keep sharing guidance for outdoor workers, people engaged in outdoor recreation, and high-risk groups while exploring ways to ensure indoor air safety during poor air quality days.	✓		✓
	5.2.1.2 Collaborate across agencies and with other groups to ensure clear, accessible messaging with affordable strategies for all communities.	✓		✓
5.2.2 Advance research on the health effects of poor air quality to improve policy, develop interventions, and protect high-risk groups.	5.2.2.1 Enhance and expand Minnesota Syndromic Surveillance System, the statewide system for tracking emergency department and hospitalization visits during poor air quality.	✓		
	5.2.2.2 Publish population health data to support decision-making for health professionals, local governments, and emergency responders.	✓		✓
5.2.3 Make it easier for agencies and sectors to work together on air and health initiatives.	5.2.3.1 Strengthen interagency collaboration between the Minnesota Air and Health Initiative and wildfire response, home weatherization programs, asthma services, and transportation.	✓		✓
	5.2.3.2 Expand efforts to help local public health and Tribal health departments provide home-based air quality guidance, asthma care, protective equipment, and education for families as part of protecting high-risk groups from poor air quality.	✓		✓
5.2.4 Protect the health of Minnesotans by reducing air pollution and avoiding activities that worsen air quality to offset the impact of wildfire smoke.	5.2.4.1 Encourage and incentivize reduction of indoor and outdoor air-polluting activities, for example discouraging driving to work for non-essential workers, especially during poor air quality days.	✓	✓	✓
	5.2.4.2 Provide health data, collaboration, and other support for policy interventions that aim to reduce indoor and outdoor air pollution from burning fuel.	✓		✓

Initiative 5.3: Safe water

Ensure Minnesotans have reliable access to clean drinking water.

Subinitiative	Action step	LEAD	ENACT	ENCOURAGE
5.3.1 Improve flood planning and backup systems to keep public drinking water safe during and after floods, wildfires, or droughts.	5.3.1.1 Support public water systems in accessing funds for backup wells and emergency power for public drinking water.	✓	✓	✓
	5.3.1.2 Help reduce flood risks to public drinking water by offering technical assistance.	✓		✓
5.3.2 Expand support and testing for private well users so that their drinking water is safe during and after floods, wildfires, or droughts.	5.3.2.1 Keep providing support to help private well users protect their water before, during, and after climate events.	✓		✓
	5.3.2.2 Expand access to resources and well test kits for private well users by improving support and collaboration with local and Tribal governments following climate events.	✓		✓

Initiative 5.4: Community care

Strengthen social connection, mental health, food security, and access to nature amid climate change.

Subinitiative	Action step	LEAD	ENACT	ENCOURAGE
5.4.1 Provide behavioral health resources after climate-related disasters or emergencies.	5.4.1.1 Maintain disaster behavioral health resources, such as Psychological First Aid training.	✓		✓
	5.4.1.2 Maintain the Behavioral Health Medical Reserve Corps, boost volunteer recruitment and retention, and ensure local officials know how to access this resource.	✓		✓
5.4.2 Promote mental well-being and help people cope with and recover from the mental, emotional, and social impacts of climate change.	5.4.2.1 Provide updated resources for the public on the Minnesota Department of Health well-being and climate change webpage while increasing awareness and accessibility, including translated materials.	✓		✓
	5.4.2.2 Ensure systems and policies maintain and expand access to nearby green spaces and outdoor activities for all ages to protect mental health and well-being.			✓
	5.4.2.3 Assess the impact of climate change on mental health and well-being, informing awareness, investment, and community capacity-building.	✓		✓
5.4.3 Strengthen social cohesion to ensure that communities are connected, supported, and equipped to withstand climate-related challenges.	5.4.3.1 Expand community access to essential services and climate resilience hubs while strengthening coordinated messaging.		✓	✓
	5.4.3.2 Identify and strengthen state-level programs and policies that promote social connectedness and reduce isolation, prioritizing them within the state's overall climate resilience and health protection strategy.	✓		✓
	5.4.3.3 Ensure state climate actions prioritize and do not unintentionally harm community social cohesion, tradition, and culture.	✓		✓
5.4.4 Preserve culturally significant places and adapt outdoor recreation and public lands amid climate change.	5.4.4.1 Partner with communities and Tribal Nations to support and co-develop research projects and share knowledge to address the impacts of changing ecosystems on mental health and well-being.	✓		✓
	5.4.4.2 Adapt outdoor recreation infrastructure and opportunities on public lands in response to both a changing climate and demographics.	✓		✓
	5.4.4.3 Ensure public lands are managed in a way that restores or conserves healthy ecosystems and ensure all Minnesotans can access and interact with healthy landscapes.	✓		✓
	5.4.4.4 Protect and restore outdoor recreation areas from extreme weather impacts in collaboration with outdoor recreational stakeholders and partners.	✓		✓
	5.4.4.5 Collaborate with Tribal Nations, diverse communities, and other organizations to identify and protect culturally significant places and resources.	✓		✓

Subinitiative	Action step	LEAD	ENACT	ENCOURAGE
5.4.5 Reduce food insecurity and improve climate resilience by increasing access to local, healthy, low-carbon intensive, and culturally appropriate foods.	5.4.5.1 Strengthen public health systems to ensure equitable access to nutritious foods and essential resources during climate crises.	✓		✓
	5.4.5.2 Advance understanding of climate-related impacts on food security, including for local fishing communities and Tribal Nations.	✓		✓
	5.4.5.3 Expand support for local organizations and governments to improve food security by increasing access to local, healthy, low-carbon intensive, and culturally appropriate foods; this includes strategies to expand grocery stores, farmers markets, local agriculture, and community gardens.	✓	✓	✓
	5.4.5.4 Protect people from exposure to toxic metals in food, soil, and water caused by climate pollution and climate change impacts.	✓	✓	✓
	5.4.5.5 Invest in local food processing infrastructure through the Minnesota Climate Smart Food Systems initiative and other efforts.	✓	✓	✓
	5.4.5.6 Encourage consideration of local economies and environmental sustainability in government food purchasing through schools and other institutions.	✓	✓	✓

Initiative 5.5: Climate-smart public health

Strengthen capacity, communications, and preparedness to protect health amid climate change.

Subinitiative	Action step	LEAD	ENACT	ENCOURAGE
5.5.1 Increase understanding of how climate change impacts health and who is most at risk.	5.5.1.1 Strengthen and expand climate-related data tracking to improve public health planning, emergency preparedness, and health equity analysis.	✓		✓
	5.5.1.2 Monitor patterns in vector-borne and other infectious diseases to detect climate-related change and protect communities from emerging disease.	✓		✓
5.5.2 Inform Minnesotans about climate-related health risks and share protective guidance through coordinated outreach with trusted partners across diverse channels.	5.5.2.1 Develop clear and accessible climate and health communication plans and resources to guide outreach efforts that inform communities about climate-related health risks and protective actions.	✓		✓
	5.5.2.2 Strengthen cross-sector collaboration to improve coordination, resource-sharing, and data-driven decision-making between governments, community organizations, medical professionals, local leaders, and other trusted messengers, integrating climate and health resources and data to enhance understanding and promote resilience.	✓	✓	✓
	5.5.2.3 Equip local public health and Tribal health with training and emergency response tools to improve readiness for climate hazards and related events and emergencies.	✓		✓
	5.5.2.4 Increase education and outreach to help people stay safe outdoors from ticks, mosquitoes, and other climate-related disease risks.	✓		✓
5.5.3 Strengthen capacity of state, local, and Tribal public health agencies to reduce climate-related health risks.	5.5.3.1 Strengthen public health capacity through education, collaboration, tool-development, and data-sharing to help state, local, and Tribal agencies assess and address climate-related health risks.	✓		✓
	5.5.3.2 Increase support for localized or sector-specific actions that reach populations who are at greater risk of climate-related health impacts.	✓		✓
	5.5.3.3 Integrate climate change considerations into emergency response planning and exercises to improve emergency preparedness.	✓		✓

Initiative 5.6: Advance equity, resilience, and justice

Address root causes behind unjust climate impacts and empower communities for lasting change.

Subinitiative	Action step	LEAD	ENACT	ENCOURAGE
5.6.1 Build trusted, coordinated systems that elevate community priorities and collaboration in climate action.	5.6.1.1 Prioritize equitable and meaningful community collaboration and shared decision-making in all state climate action programs and policies.	✓		✓
	5.6.1.2 Build a statewide network to cultivate lasting partnerships between residents, organizations, and governments to yield more inclusive, transparent, and responsive climate action in Minnesota.	✓	✓	✓
	5.6.1.3 Improve youth involvement in Minnesota's climate action priorities and decision-making.	✓		✓
5.6.2 Prioritize communities facing disproportionate climate impacts when distributing funds and resources and address structural barriers that limit equitable access to this support.	5.6.2.1 Engage communities to co-develop a system that adequately identifies areas in Minnesota where climate impacts are disproportionately experienced.	✓		✓
	5.6.2.2 Create a strategy to ensure that at least 40% of funding for climate mitigation and adaptation initiatives benefits communities facing disproportionate climate impacts.	✓		✓
	5.6.2.3 Provide additional technological assistance for grant writing and related activities to organizations serving disproportionately impacted communities.	✓		✓
	5.6.2.4 Create a transparent system to identify, monitor, and publicly report how state funds are invested in climate action and community resilience — ensuring these investments align with the 40% climate benefit strategy.	✓		✓
5.6.3 Integrate climate resilience and health equity into decision-making to protect health and prevent harm.	5.6.3.1 Assess, leverage, and align existing state programs to accelerate climate resilience, health, and equity to optimize limited resources, avoid investments that exacerbate climate risks, and set a precedent for sustainable governance—ensuring Minnesota remains a leader in equitable climate action.	✓		✓
	5.6.3.2 Ensure state climate policies and programs actively improve health and health equity, creating more resilient and thriving communities.	✓		✓
	5.6.3.3 Develop trainings, grant templates, and other tools to support state staff in evaluating programs for climate resilience and health equity-related impacts.	✓		✓
	5.6.3.4 Establish a cross-agency team to integrate climate resilience and health equity into state, Tribal, and local programs, ensuring collaboration, clear communication, and effective policy implementation.	✓		✓
	5.6.3.5 Examine how property insurance cost and coverage, in the context of climate risk, influence health equity in Minnesota, drawing on both state and national data sources.	✓		

Goal 6 — Clean economy

Build a thriving carbon-neutral economy that produces goods and services with environmental benefits and equitably provides family-sustaining job opportunities.

Initiative 6.1: Clean, sustainable, and resilient industrial businesses

Reduce emissions by helping businesses adopt technologies and strategies that benefit them, Minnesotans, and the environment.

Subinitiative	Action step	LEAD	ENACT	ENCOURAGE
6.1.1 Incentivize industrial businesses to adopt low-carbon technologies and strategies.	6.1.1.1 Promote industrial business investment in clean technologies and strategies with financial incentives such as low-interest loans, rebates, grants, and tax credits under new and existing programs through the Energy Conservation Optimization Act and the Natural Gas Innovation Act, and the Minnesota Climate Innovation Finance Authority.	✓	✓	✓
	6.1.1.2 Support and grow industries that make low-carbon products through the Buy Clean and Buy Fair Minnesota Act and by encouraging other public and private organizations to adopt similar policies.	✓		✓
	6.1.1.3 Facilitate cross-sector approaches to reduce emissions and waste, like utilizing industrial waste heat to heat nearby buildings, by encouraging collaboration and offering incentives so businesses and households benefit from a more circular economy.	✓	✓	✓
	6.1.1.4 Ensure businesses of all sizes and in all communities, especially those historically excluded, can access support for clean technology adoption through programs like the Minnesota Climate Innovation Finance Authority, programs supported by the Energy Conservation Optimization Act, and new initiatives.	✓	✓	✓
6.1.2 Develop policies that support flexible adoption of low-carbon technologies and strategies by businesses, while helping meet statewide emissions goals.	6.1.2.1 Ensure Minnesota's policies and programs cut supply chain emissions by building more clean production and sourcing within the state, not shifting pollution elsewhere.	✓	✓	✓
	6.1.2.2 Evaluate clean heat policies that give businesses flexible options to switch to low-emission heating, such as heat pumps, renewable natural gas, and geothermal.	✓	✓	✓
	6.1.2.3 Explore market-based policies that give businesses flexible, cost-effective ways to reduce emissions, while supporting innovation, investment, and growth opportunities	✓	✓	✓
	6.1.2.4 Identify and support methods to track, report, and verify emissions with tools and guidance that are easy to use and transparent for businesses and agencies.	✓	✓	✓

Subinitiative	Action step	LEAD	ENACT	ENCOURAGE
6.1.3 Provide outreach and technical assistance to businesses on low-carbon technologies and strategies in partnership with regional governments and organizations.	6.1.3.1 Ensure outreach and technical assistance are accessible to businesses of all sizes, including those owned by women, people of color, veterans, people with disabilities, and others who have been excluded from opportunities in the past.	✓		✓
	6.1.3.2 Maintain and expand programs that provide early-stage education, consultation, assessment, and other support to help businesses adopt cleaner, more efficient technologies and practices like the Minnesota Technical Assistance Program, Minnesota Retiree Environmental Technical Assistance Program, Clean Energy Resource Teams, and Energy Smart.	✓	✓	✓
	6.1.3.3 Work with regional partners and businesses to identify and promote clean economy opportunities that support growth, address regional needs, and help meet the state's emissions reduction goals.	✓		✓
	6.1.3.4 Grow the supply of and demand for clean products in Minnesota through partnerships like the Bioeconomy Coalition of Minnesota, giving local businesses an early advantage in national and international markets.	✓		✓

Initiative 6.2: Clean fuel and clean technology innovation

Create pathways to develop, test, and deploy affordable and scalable technologies that reduce emissions from industrial processes.

Subinitiative	Action step	LEAD	ENACT	ENCOURAGE
6.2.1 Encourage technologies that help businesses improve energy efficiency and switch to electricity where possible.	6.2.1.1 Expand new and existing clean energy businesses and technologies through partnerships like Minnesota Energy Alley and with continued funding for demonstration and other early-stage clean technology projects.	✓	✓	✓
	6.2.1.2 Evaluate current geothermal and other clean heat projects for growth opportunities and continue supporting research into new methods and applications.	✓		✓
	6.2.1.3 Continue evaluation of developing technologies that could make electricity generation cheaper and easier to scale and assess their potential for use in Minnesota, such as advanced nuclear technology that improves efficiency and safety.	✓		✓
6.2.2 Advance cost-effective, scalable clean fuel technologies that reduce lifecycle emissions.	6.2.2.1 Support low-carbon fuels made in Minnesota or with Minnesota products—such as wood waste, winter oilseeds, low-emission hydrogen, solid waste, and captured carbon—by using existing policies like tax credits, production payments, and blending standards, and by creating new programs to increase production and stimulate demand, taking into consideration full lifecycle emissions.	✓	✓	✓
	6.2.2.2 Support new and existing renewable natural gas projects from diverse producers and feedstocks through production incentives and infrastructure development funding, making gas available for electricity, transportation, heating and industrial use while maximizing local benefits and minimizing lifecycle emissions.	✓	✓	✓
	6.2.2.3 Support the development of low-emission hydrogen by learning from projects in Minnesota and elsewhere and support emerging markets for transportation and industrial uses.	✓		✓

Subinitiative	Action step	LEAD	ENACT	ENCOURAGE
6.2.3 Support carbon capture, storage, and utilization technologies that are affordable, store carbon long-term, and don't increase overall emissions.	6.2.3.1 Build public understanding of carbon capture, storage, and utilization's role in meeting emissions reduction goals, and learn from projects in Minnesota and elsewhere about methods that balance costs with near- and long-term net emissions reductions.	✓		✓
	6.2.3.2 Assess policy options to define, track, and incentivize a range of carbon sequestration methods — including biological, geological, and utilization — and evaluate regulatory approaches to support future demonstration and deployment.	✓	✓	✓
	6.2.3.3 Encourage carbon storage in natural and working lands through existing and expanded education, land management programs, and policy or financial support, including long-term storage in wood products.	✓	✓	✓
	6.2.3.4 Build partnerships and assess new ways to support and incentivize research, testing, and market development of affordable, scalable technologies that use captured carbon in industrial processes and in products that store carbon long-term.	✓	✓	✓

Initiative 6.3: Strong circular economy

Reduce emissions and waste through reuse, repair, recycling, and decreasing demand for new materials.

Subinitiative	Action step	LEAD	ENACT	ENCOURAGE
6.3.1 Reduce waste from homes, businesses, and institutions by focusing on prevention and reuse.	6.3.1.1 Support reuse, rental, sharing, and repair services and spaces by supporting community programs, offering grants, training repair technicians, and investing in business and workforce development efforts.	✓	✓	✓
	6.3.1.2 Encourage people to buy reused and repaired goods through public campaigns, consumer marketing, and education about right-to-repair laws.	✓		✓
	6.3.1.3 Prevent food waste from businesses and organizations that throw away large quantities of food by offering incentives for food donation and rescue, providing technical assistance to improve food management practices, and requiring annual tracking and reporting.	✓		✓
	6.3.1.4 Support households and institutions in reducing food waste by promoting meal planning, smart shopping, proper food storage, and increased understanding of food date labels.	✓		✓
	6.3.1.5 Help businesses, governments, and organizations switch from single-use food and beverage containers and utensils to reusable or compostable ones through incentives, grants, rebates, and government purchasing policies.	✓		✓
	6.3.1.6 Prevent wood and material waste by offering incentives for tree care, building maintenance, and building material reuse.	✓	✓	✓
6.3.2 Increase recycling at homes, businesses, and institutions and promote the use of recycled materials.	6.3.2.1 Increase recycling of traditional recyclables, electronics, and hard-to-recycle items by educating the public, making recycling convenient, offering financial incentives, improving processing systems, and implementing Extended Producer Responsibility policies.	✓	✓	✓
	6.3.2.2 Strengthen markets for recycled materials by offering incentives, providing business development assistance, improving communication, and updating government procurement policies; for example, using compost for public construction and landscaping projects, incentivizing use of waste wood, and creating systems to capture and process new and difficult-to-recycle materials.	✓	✓	✓
	6.3.2.3 Increase organics recycling, including composting, anaerobic digestion, and feeding food scraps to livestock, by adding new facilities, improving curbside and drop-off collection options, raising public awareness, and creating incentives and requirements for businesses.	✓	✓	✓

Subinitiative	Action step	LEAD	ENACT	ENCOURAGE
6.3.3 Reduce emissions from waste systems and capture emissions for use as a renewable energy source.	6.3.3.1 Improve energy and material efficiency in waste and wastewater collection and processing, using strategies such as streamlining collection routes and timing, requiring pre-processing of waste, and using waste heat.	✓	✓	✓
	6.3.3.2 Establish emissions limits and provide funding and technical assistance opportunities for landfills, wastewater treatment plants, and agricultural waste generators to identify and reduce methane and nitrous oxide emissions, using the gases and process heat to produce clean energy where feasible.	✓	✓	✓

Initiative 6.4: Resilient and equitable clean economy workforce

Prepare workers for new, existing, and changing career opportunities and create high-quality, accessible clean economy jobs.

Subinitiative	Action step	LEAD	ENACT	ENCOURAGE
6.4.1 Support workers and communities that depended on climate-vulnerable or carbon-intensive industries adapt and transition as climate and technologies change.	6.4.1.1 Help workers in climate-vulnerable or carbon-intensive industries whose jobs are shrinking or disappearing transition to in-demand careers through efforts like the Dislocated Worker Program, Adult Career Pathways, and others.	✓		✓
	6.4.1.2 Help communities with large climate-vulnerable or carbon-intensive industries transition successfully by offering tailored strategies and support, including ongoing work in communities impacted by fossil fuel-based power plant closures.	✓		✓
6.4.2 Develop and promote clear education and career pathways for clean economy jobs.	6.4.2.1 Using a broad, inclusive definition of clean jobs, create and implement a statewide plan to grow clean jobs at new and existing businesses, which includes identifying growing or at-risk industries, regional needs, employer needs, relevant training programs, and who has access.	✓		✓
	6.4.2.2 Work with businesses, labor groups, including unions, nonprofits, and education institutions to create and support inclusive workforce strategies that help new and existing workers prepare for today's changing jobs and technologies, such as Registered Apprenticeship Programs, Minnesota Job Skills Partnership grants, and dual training pipeline.	✓		✓
	6.4.2.3 Help youth prepare for and access clean economy careers by expanding school and community STEM programs, continually aligning Career and Technical Education programs with industry needs, raising awareness of these careers, and continuing support for programs like the Minnesota Youth Program and Youthbuild.	✓		✓
	6.4.2.4 Develop and implement a plan to share clean economy career pathway information with people from diverse backgrounds, including students, job seekers, professional associations, community-based organizations, and organizations that help people find work.	✓		✓

Subinitiative	Action step	LEAD	ENACT	ENCOURAGE
6.4.3 Work with employers to create high-quality clean economy jobs that are accessible to all.	6.4.3.1 Help employers meet their workforce needs with a diverse set of workers through programs such as Adult Career Pathways, Adult Basic Education, pre-apprenticeships and Registered Apprenticeship Programs, as well as programs through community-based organizations.	✓		✓
	6.4.3.2 Share best practices for reaching more diverse talent pools with employers and explain why it matters, especially in industries where many workers will retire in the next few years.	✓		✓
	6.4.3.3 Promote job quality in the clean economy — fair pay, benefits, safe working conditions, and opportunities for growth — by showing employers how job quality benefits businesses, linking funding opportunities to job quality, and supporting workers most exposed to environmental risks, such as extreme heat, outdoor air pollution, or hazardous materials.	✓	✓	✓
	6.4.3.4 Strengthen the connection between economic and workforce development efforts through better coordination across state agencies and with regional and local partners to support businesses, and leverage experience from established public/private partnerships such as Xcel Energy's PowerUp Program and the Minnesota CHIPS Coalition.	✓	✓	✓
6.4.4 Remove barriers to education and job opportunities to grow the clean economy workforce.	6.4.4.1 Support communities that have faced environmental and economic inequities through workforce and community programs such as Building Strong Communities, and pre-apprenticeships and Registered Apprenticeship Programs and by supporting local, community-led workforce efforts.	✓	✓	✓
	6.4.4.2 Partner with employers, trade associations, labor groups, including unions, nonprofits, workforce boards, and education and training institutions to find and share effective ways to help overlooked workers overcome barriers like lack of transportation or childcare, and to implement solutions such as mentoring, career guidance, learning on the job, and support services that lead to lasting employment.	✓		✓

Goal 7 — Efficient and resilient buildings

Build and maintain healthy, comfortable, safe, efficient, and resilient buildings and homes that cost less to operate, pollute very little, and support grid stability.

Initiative 7.1: Decarbonized residential and commercial buildings

Reduce energy use, carbon emissions, and embodied carbon in buildings and building materials.

Subinitiative	Action step	LEAD	ENACT	ENCOURAGE
7.1.1 Increase energy efficiency and heat resistance in buildings.	7.1.1.1 Continue estimating emissions reductions resulting from energy efficiency programs such as the Energy Conservation Optimization Act and the Natural Gas Innovation Act and increase its public reporting.	✓		
	7.1.1.2 Ensure all households, particularly low-income Minnesotans and renters, can afford weatherization by streamlining state-administered assistance programs and utility efficiency programs to make them easier to access and utilize.	✓		✓
	7.1.1.3 Adopt and expand existing Minnesota sustainability programs to drive market demand for carbon-free living and work environments.	✓	✓	✓
	7.1.1.4 Ensure that energy efficiency programs, such as utility energy audit programs, are equitably available across the state.	✓	✓	✓
	7.1.1.5 Promote energy benchmarking and real-time monitoring and availability of building or tenant space energy consumption metrics to facilitate energy consumption reduction and provide immediate feedback to the owner.	✓	✓	✓
	7.1.1.6 Provide education and technical assistance — such as grant writing, best practices, and first steps — on building energy improvements and energy efficiency to owners, developers, design professionals, and the construction workforce.	✓		✓
	7.1.1.7 Support demand response, carbon emission response, and smart building systems through financial incentives, including utility rate designs.	✓	✓	✓
	7.1.1.8 Support opportunities for additional financial incentives for homes, businesses, governments, healthcare systems, schools, and other buildings to increase energy efficiency and reduce energy use.	✓	✓	✓
	7.1.1.9 Research and implement a statewide Building Performance Standard aligned with building codes and provide technical assistance for building owners to help with compliance.	✓	✓	✓

Subinitiative	Action step	LEAD	ENACT	ENCOURAGE
	7.1.1.10 Update regulatory requirements, including regularly adopting updated building and energy codes, to increase energy efficiency in buildings.	✓	✓	✓
	7.1.1.11 Develop statutory criteria to enforce the Minnesota Energy Codes if local municipalities have not adopted the State Building Code for local enforcement as is currently done for the Minnesota Accessibility Code.	✓	✓	✓
7.1.2 Lower energy use through water conservation in buildings.	7.1.2.1 Study and develop new requirements for gray water treatment and use in homes based on scientific data and global best practices.	✓	✓	✓
	7.1.2.2 Communicate the benefits of water conservation best practices to build stakeholder awareness and drive market response.	✓		✓
	7.1.2.3 Provide education and technical assistance to owners, developers, design professionals, and the construction workforce to support water conservation and use of non-potable water in buildings.	✓	✓	✓
	7.1.2.4 Develop financial incentives to support water conservation and use of non-potable water in buildings.	✓	✓	✓
	7.1.2.5 Adopt building codes, including plumbing, health and environmental codes, to support water conservation and use of non-potable water in buildings.	✓	✓	✓
7.1.3 Electrify buildings to reduce emissions.	7.1.3.1 Research, develop and deploy cold-climate heat pumps and systems.	✓	✓	✓
	7.1.3.2 Develop and implement ultra-efficient thermal systems, leveraging ground and waste-heat sources and district-scale thermal energy networks.	✓	✓	✓
	7.1.3.3 Provide education and technical assistance to building owners, developers, design professionals, and the construction workforce to support the electrification of buildings to reduce emissions, including on heat pumps, fuel-switching, and “get ready” practices.	✓	✓	✓
	7.1.3.4 Support and foster refrigeration technician education programs in high schools and community, technical, and Tribal colleges on heat pump technologies, very low temperature heat pump systems, and hybrid energy systems integration to ensure we have a workforce ready to maintain and proliferate net-zero building technologies stock.	✓	✓	✓
	7.1.3.5 Develop financial incentives and rate designs to support the electrification of buildings to reduce emissions, such as for heat pumps, zero emissions district energy systems, and deploying multiple approaches to cost reduction that also protect low-income Minnesotans.	✓	✓	✓
	7.1.3.6 Adopt building and energy codes to support the electrification of buildings to reduce emissions, including regular updates of the Minnesota Building Code, Minnesota Commercial Energy Code, Minnesota Residential Energy Code.	✓	✓	

Subinitiative	Action step	LEAD	ENACT	ENCOURAGE
7.1.4 Advance on-site renewable energy.	7.1.4.1 Ensure state programs combine energy efficiency design with building siting and design of on-site renewable energy.	✓		✓
	7.1.4.2 Provide education and technical assistance to owners, developers, design professionals, and the construction workforce to support the use of onsite renewable energy, including information about solar-ready design, building infrastructure and space requirements, and mapping tools.	✓	✓	✓
	7.1.4.3 Support and foster electrical technician education programs in high schools and community and technical colleges including low voltage systems, solar systems, energy storage systems, and electrical systems integration controls to support electrification.	✓		✓
	7.1.4.4 Develop financial incentives, including rate designs, to support and incentivize the use of onsite renewable energy for individual buildings - particularly in low-income neighborhoods.	✓	✓	
	7.1.4.5 Adopt building and energy codes to support onsite renewable energy, including incrementally increasing the Minnesota Commercial Energy Code, the Minnesota Residential Energy Code, adopting updated versions of ASHRAE 90.1 and International Energy Conservation Code.	✓	✓	
	7.1.4.6 Develop statewide planning and zoning statutory criteria to provide a basic framework facilitating sustainable development, solar-ready construction, on-site renewable energy, utilization of district energy, and on-site energy storage.	✓	✓	✓
7.1.5 Reduce embodied carbon in buildings.	7.1.5.1 Include embodied carbon criteria in state and local government procurement and contracting processes.	✓		✓
	7.1.5.2 Provide education and technical assistance to owners, developers, design professionals, and the construction workforce to support the use of low-carbon and carbon-storing construction materials.	✓	✓	✓
	7.1.5.3 Offer financial incentives for construction projects to use low-carbon and carbon-storing construction or renewable materials and products.	✓	✓	✓
	7.1.5.4 Leverage building codes to support the use of low-carbon construction materials and products, such as, but not limited to, strawbale, hempcrete, rammed earth, mycelium, and reused/recycled construction materials.	✓	✓	✓

Initiative 7.2: Resilient residential and commercial buildings

Integrate innovative technologies, materials, and design methods in buildings to withstand climate impacts.

Subinitiative	Action step	LEAD	ENACT	ENCOURAGE
7.2.1 Strengthen buildings against extreme weather and climate impacts.	7.2.1.1 Enable the use of energy performance contracting for resilience to multiple climate perils.	✓	✓	
	7.2.1.2 Incorporate climate impacts such as extreme heat into hazard mitigation planning for essential community buildings and residential buildings and homes.	✓		✓
	7.2.1.3 Provide education and technical assistance to owners, developers, property managers, design professionals, engineers, and the construction workforce to support the design, engineering, and construction and management of buildings that will be able to withstand extreme weather and climate impacts.	✓	✓	✓
	7.2.1.4 Develop financial incentives to support the design and construction of buildings that will be able to withstand extreme weather and climate impacts, which makes those structures more insurable.	✓	✓	✓
	7.2.1.5 Add resiliency as a criterium for building code adoption to enable the state to consider codes that support the design and construction of commercial buildings and homes to withstand extreme weather and climate impacts, such as heat-safe roofing and flood mitigation systems.	✓	✓	
7.2.2 Conserve water in buildings for resilience.	7.2.2.1 Communicate the benefits of water conservation to build stakeholder awareness and drive market response.	✓	✓	✓
	7.2.2.2 Provide education and technical assistance to owners, developers, design professionals, and the construction workforce to support the design and construction of buildings that conserve water used in and around buildings for resilience, such as education on best practices and cost effective first steps.	✓	✓	✓
	7.2.2.3 Develop financial incentives to support the design and construction of buildings that conserve water used in and around buildings for resilience.	✓	✓	✓
	7.2.2.4 Adopt building codes including plumbing, health and environmental codes to support the design and construction of buildings that conserve water used in and around buildings for resilience, such as point-source electric heating and requiring buildings to collect and treat rainwater for use in irrigation and flushing toilets.	✓	✓	

Subinitiative	Action step	LEAD	ENACT	ENCOURAGE
7.2.3 Pursue building electrification strategies that support grid resilience, lower risk of outages, and reduce stress on carbon-based fuel systems.	7.2.3.1 Research and develop hybrid HVAC systems such as solar-assisted ground-source heat pumps.	✓	✓	✓
	7.2.3.2 Communicate the benefits of building electrification technologies as well as ground-source heat-pump technologies to build stakeholder awareness and drive market response.	✓	✓	✓
	7.2.3.3 Provide education and technical assistance to owners, developers, design professionals, and the construction workforce to support the electrification of buildings for resilience, such as information on best practices and most cost-effective first steps.	✓	✓	✓
	7.2.3.4 Develop financial incentives to support the electrification of buildings for resilience.	✓	✓	✓
7.2.4 Advance on-site renewable energy and storage to keep buildings powered and self-sufficient in the event of large outages.	7.2.4.1 Research the two-way flow of electricity from battery storage and EVs when connected to the grid, including assessing technical viability and monetization of services.	✓	✓	✓
	7.2.4.2 Communicate the benefits of onsite renewable energy production and energy storage technologies as well as ground-source heat pump and other thermal storage technologies to build stakeholder awareness and drive market response.	✓	✓	✓
	7.2.4.3 Provide education and technical assistance to owners, developers, design professionals, and the construction workforce to support the use of onsite renewable energy with storage capabilities for resilience, such as information on storage-ready construction, general best practices, and cost-effective first steps.	✓	✓	✓
	7.2.4.4 Support the use of onsite renewable energy with storage capabilities for resilience through the development of financial incentives, including rate designs, to optimize off-peak energy distribution and storage.	✓	✓	✓
	7.2.4.5 Adopt building and energy codes to support onsite renewable energy with storage for resilience, such as requiring on-site energy storage to supply buildings for one day or requiring roof structures to be designed to support solar array installations of sufficient capacity to charge building energy storage systems.	✓	✓	✓

Subinitiative	Action step	LEAD	ENACT	ENCOURAGE
7.2.5 Promote the use of healthy building materials.	7.2.5.1 Use purchasing and procurement guidelines to require environmental product declaration for building materials, including in state and local governments.	✓		✓
	7.2.5.2 Provide education and technical assistance to owners, developers, design professionals, and the construction workforce to make environmentally preferable selections (e.g. non-toxic, mold-resistant, and durable) for their building materials and products, including appliances such as furnaces, water heaters, and cooktops/ovens.	✓	✓	✓
	7.2.5.3 Develop financial incentives to support the design, construction, and ongoing use of healthy building materials, and green chemicals, and products in buildings including homes, businesses, and the healthcare sector.	✓	✓	✓
	7.2.5.4 Adopt building and energy codes to support the design and construction of buildings that use healthy building materials and products and provide protection to vulnerable populations from climate hazards such as extreme heat.	✓	✓	✓
	7.2.5.5 Support flexibility in codes for developing new system designs that have sustainable and wellness co-benefits, such as canvas ducts that provide significant noise reduction or standards for effective daylighting of buildings to promote wellness.	✓	✓	✓

Initiative 7.3: Reuse of buildings and building materials

Utilize existing buildings to recover materials, prevent waste, and save energy and resources.

Subinitiative	Action step	LEAD	ENACT	ENCOURAGE
7.3.1 Increase adaptive building reuse and continued use.	7.3.1.1 Research and identify modifications for B3 and other building rating systems related to carbon accounting to include carbon emitted and loss of embodied energy when demolishing an existing building to make way for a new building.	✓		✓
	7.3.1.2 Develop and codify best practices and considerations for adaptive building reuse and identification of uses that fit individual buildings.	✓	✓	✓
	7.3.1.3 Expand access to building assessment tools and other technical assistance and training to developers, design professionals, and the construction workforce to support structure repair and the adaptive reuse and continued use of existing buildings.	✓	✓	✓
	7.3.1.4 Create new financial incentives and improve and expand existing ones to increase access, participation, and use of the programs to incentivize building reuse.	✓	✓	✓
	7.3.1.5 Develop building performance standards to support the reuse of existing buildings and tenant spaces based on size and use.	✓	✓	
	7.3.1.6 Adopt building and energy codes to support adaptive reuse and continued use of existing buildings.	✓	✓	✓
	7.3.1.7 Integrate a new-versus-renovation analysis into the pre-design process for capital projects.	✓		✓

Subinitiative	Action step	LEAD	ENACT	ENCOURAGE
7.3.2 Increase building deconstruction and material reuse to avoid demolition of buildings that cannot be reused.	7.3.2.1 Research and develop best practices for reusing salvaged materials in new construction and rehabilitation projects.	✓	✓	✓
	7.3.2.2 Expand the use of material conservation and material management plans, establishing targets and guidance to increase material salvage, material reuse, and recycling of materials.	✓	✓	✓
	7.3.2.3 Create a building material diversion and reuse program to provide drop-off locations for building materials and a place for consumers to buy the materials, creating more predictability in the reused material market and reducing risk.	✓	✓	✓
	7.3.2.4 Communicate the benefits of building material reuse to build stakeholder awareness and drive market response.	✓	✓	✓
	7.3.2.5 Provide education and technical assistance to developers, design professionals, material contractors, and the construction workforce for structural repair and to support the partial or full deconstruction of existing buildings rather than demolition.	✓	✓	✓
	7.3.2.6 Develop financial incentives to support the deconstruction of existing buildings and reuse of construction materials in new projects.	✓	✓	✓
	7.3.2.7 Disincentivize demolition by establishing deconstruction standards and requirements.	✓	✓	
7.3.3 Decrease construction waste.	7.3.3.1 Expand recycling of construction waste that cannot be reused in the construction market, investing in the development and expansion of recycling markets for building materials.	✓	✓	✓