



Government Services - Climate Action Planning



We are not making a choice between environment and prosperity; but we are rather looking at how we combine both.

Paul Kagame, President of Rwanda



Mission Statement

paleBLUEdot's mission is to hasten the transition to an authentically sustainable, no carbon economy and to elevate the public discourse.

Vision Statement

paleBLUEdot is a leading provider of thoughtful and comprehensive Climate Change, carbon reduction, and sustainability assessments, action planning, and consulting to businesses and communities; carbon offset consulting and sourcing for businesses and individuals; and a trusted source of climate change and sustainability education and communication programs and content.

Values Statement

We see a future that is carbon neutral, truly sustainable, and that supports a higher quality of life for all. We believe the challenges we face in making that transition are in fact, powerful opportunities to enhance livability, economic vitality, and equity. We believe the time has come to make change personal, for individuals to understand the need for sustainability and clean energy, and for us as individuals to understand and engage in carbon reduction responsibly.



Climate Action Planning Services

One of the core missions of paleBLUEdot is to assist local governments, community organizations, and businesses in understanding and improving their climate resilience through climate planning.

Climate planning includes both climate mitigation as well as climate adaptation. “mitigation” refers to the practice of reducing greenhouse gases, while “adaptation” refers to anticipating and taking action to reduce the adverse consequences of climate change, including those relating to natural hazards risks

Climate Action Plans frequently represent economic development potential, improved community livability, and a community more attractive to investment and growth. In support of that goal, paleBLUEdot offers the following Climate Planning services to businesses, community groups and government agencies:

- Climate Vulnerability Assessments
- Climate Adaptation Planning
- Greenhouse Gas Inventories
- Climate Action Planning
- Carbon Sequestration Planning
- Climate Communication
- Resilient Cities Support



Our mission is to hasten the transition to an authentically sustainable, no carbon economy and to elevate the public discourse.

paleBLUEdot Certifications/Affiliations





It's a collective endeavor. It's a collective accountability.

Christine Lagarde, Managing Director, IMF

(40+) Renewable Energy Action Plans (partial list)

**State of Montana
Solar For Schools Statewide
Solar Feasibility
Assessment**
Helena, MT

**City of Maplewood
Community-Wide
Renewable Energy Action
Plan / Solar Potentials
Study**
Maplewood, MN

**City of Mountain Iron
Community-Wide
Renewable Energy Action
Plan**
Mountain Iron, MN

**City of Albert Lea City-Wide
Renewable Energy Action
Plan / Solar Potentials
Study**
Albert Lea, MN

**City of Faribault City-Wide
Renewable Energy Action
Plan / Solar Potentials
Study**
Faribault, MN

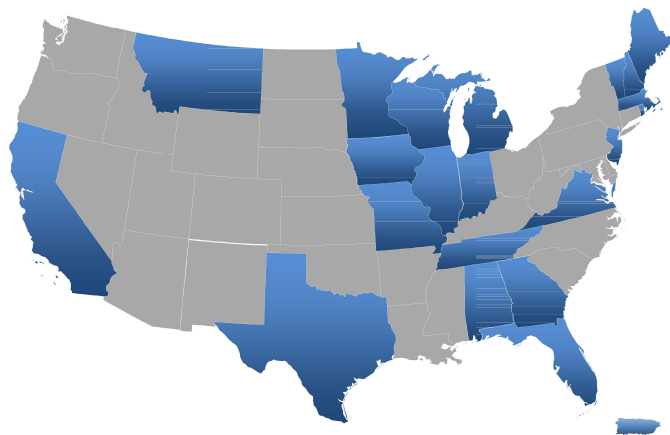
**City of Tuskegee Solar
Potentials Study and
Master Plan**
Tuskegee, AL

**City of Marion Solar
Potentials Study and
Master Plan**
Marrion, AL

**Ramsey County Parks and
Recreation System-Wide
Renewable Energy and Net
Zero Master Plan**
Ramsey County, MN

**Solar Workgroup of
Southwest Virginia, Solar
Pathways Feasibility
Assessments**
St Paul, VA

**paleBLUEdot National Climate, Sustainability
and Energy Action Planning Project Map**



Team Project Experience

The paleBLUEdot team has extensive consulting experience relevant to climate planning, including Climate Action Plans, Climate Vulnerability Assessments, Climate Adaptation Plans, Renewable Energy Action Plans, Sustainability Baseline Assessments, and Tree Canopy and Carbon Sequestration Plans. Our work spans 22 States and our project experience within the last three years alone includes:

Experience of paleBLUEdot

(50+) Community Climate, Energy, and Sustainability Planning Projects (partial list)

City of Dubuque
Climate Action Plan
Dubuque, IA

City of Edina
Climate Action Plan
Edina, MN

City of Bloomington
Climate Action Plan
Bloomington, IN

City of Maplewood
Climate Adaptation Plan
Maplewood, MN

City of Faribault
Climate Adaptation Plan
Faribault, MN

City of La Crosse
Climate Action Plan
La Crosse, WI

Leech Lake Band of Ojibwe
Climate Adaptation Plan
Cass Lake, MN

Town of Hartford
Carbon Neutral Climate Action Plan
Hartford, VT

Village of Northbrook
Climate Action Plan
Northbrook, IL

City of Burnsville
Sustainability and Climate Action Plan
Burnsville, MN

City of Albert Lea
Climate Action and Adaptation Plan
Albert Lea, MN

City of Duluth
Community Climate Vulnerability
Assessment and Climate Action
Framework
Duluth, MN

City of Chattanooga
Greenhouse Gas Inventory and
Analysis (years 2013, 2016, 2019)
Chattanooga, TN

Shakopee Mdewakanton Sioux
Community
Greenhouse Gas Inventory and
Mitigation Pathways
Recommendations
Prior Lake, MN

Addison County
Climate Action Plan
Middlebury, VT

Completed Work Samples:

For samples of paleBLUEdot team work,
please scan the QR code:



Or go to:
<https://palebluedot.llc/cap-examples>

Recent Municipal Climate + Energy Planning Clients (Since 2018)

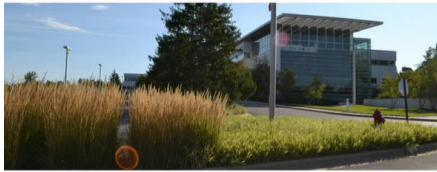
Addison County, VT
Aekely, MN
Albert Lea, MN
Ames, IA
Bloomington, IN
Brainerd, MN
Brooklyn Park, MN
Burnsville, MN
Chattanooga, TN
Chrisholm, MN
Crookston, MN
Dallas, TX
Dubuque, IA
Duluth, MN
Eau Claire, WI
Edina, MN
Elk River, MN
Fairfax, MN
Faribault, MN
Granite Falls, MN
Hartford, VT
Kelliher, MN
LaFarge, WI
Leech Lake Band of
Ojibwe
Maplewood, MN
Marion, AL
Morris, MN
Mountain Iron, MN
Northbrook, IL
Northfield, MN
Oakdale, MN
Ranier, MN
Roseville, MN
Saint Charles, MN
St Louis Park, MN
Tuskegee AL
Warren, MN
Winnebago, MN
Winthrop, MN
Wise, VA



Team Project Experience



Village of Northbrook
Climate Action Plan



The sectors assessed, and the findings for annual economic impact as a percentage of GDP for the Village of Northbrook based on a pro rata share of Cook County estimates are:



Estimated Social Cost of Carbon

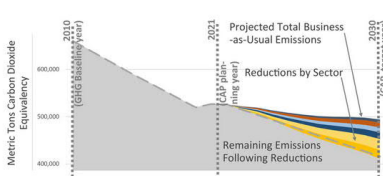
"Social Cost of Carbon" is an effort to properly account for the damages caused by greenhouse gas emissions and the resulting climate change impacts. By including the social cost of carbon in planning efforts, agencies and business can properly evaluate policies and decisions that affect greenhouse gas emissions. The "Social Cost of Carbon" is a measure of the share of climate change economic harm and impacts from emitting one ton of carbon dioxide into the atmosphere. For Northbrook it can be calculated as follows:

$$\text{Estimated Economic Risk of Climate Change: } \$51,000,000 + \text{Current Annual GHG Emissions: } 519,924 \text{ tons/year} = \text{Current Estimated Localized Social Cost of Carbon: } \$99 \text{ per ton}$$

Cumulative Economic Savings Potential of Implementing the Climate Action Plan Through 2030

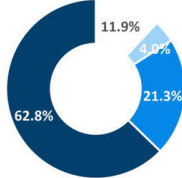


Village-wide GHG Emission Reductions Wedge Diagram



Breakdown of GHG Emissions Reductions From 2010 to 2030

Total anticipated GHG emissions reductions by 2030 include emissions reductions which have already occurred since 2010, reductions which are anticipated within the Business-as-Usual forecast, and the reductions resulting from the strategies and actions included in this plan.



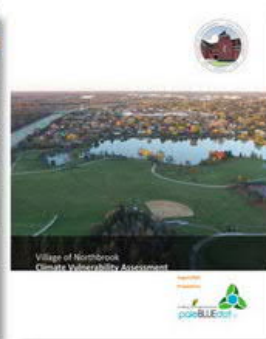
Village of Northbrook

- Climate Action Plan
- Community-wide GHG Inventory
- Municipal Operations GHG Inventory
- Climate Vulnerability Assessment
- Community-Wide Tree Canopy, Sequestration, and Heat Island Study
- Community Sustainability Baseline Assessment
- Community-Wide Renewable Energy Potential Study
- Climate Change Infographic Communications

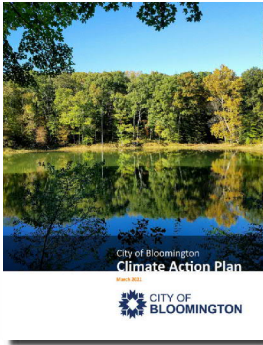
In 2020 and 2021, paleBLUEdot worked with the Village of Northbrook to develop the City's first Carbon Neutral Climate Adaptation Plan. The plan supports the Town's goals of achieving municipal operations and community-wide GHG emission reductions by 2030. The plan addresses climate mitigation and adaptation goals in eight sectors including: Transportation and Land use, Buildings and Energy, Waste Management, Water and Wastewater, Local Food and Agriculture, Greenspace and Ecosystem Health, Climate Health and Safety, and Climate Economy.

The effort included development of a Climate Risk and Vulnerability assessment, municipal operations and community-wide GHG inventory, a community-wide renewable energy potentials assessment, and a community-wide sustainability and climate action baseline assessment. The final Climate Action Plan included:

- Development of metrics that can be used to track implementation progress
- A template for annual reporting
- An analysis of staffing and financial resources necessary to develop, implement, monitor plan programs and initiatives
- Identification of most impactful climate actions/initiatives for both the community and municipal operations and a prioritized year 1 implementation plan with project budgets.
- Identification of community resources, groups, and organizations to engage with for plan implementation
- Cost-benefit analysis of proposed strategies and actions

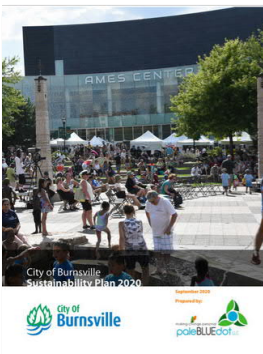


Team Project Experience



City of Bloomington, Indiana (population: 80,000)

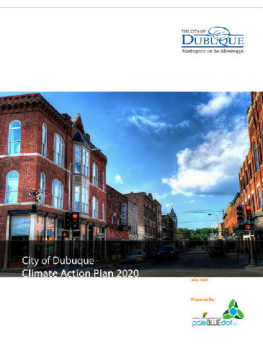
In 2020 and 2021, paleBLUEdot worked with the City of Bloomington to develop the City's first Climate Adaptation Plan. The plan supports the City's goals of achieving municipal operations and community-wide GHG emission reductions by 2030. The plan addresses climate mitigation and adaptation goals in eight sectors including: Transportation and Land use, Buildings and Energy, Waste Management, Water and Wastewater, Local Food and Agriculture, Greenspace and Ecosystem Health, Climate Health and Safety, and Climate Economy.



City of Burnsville, Minnesota (population: 60,000)

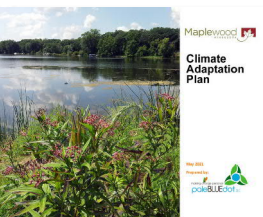
paleBLUEdot worked with the City in 2019 and 2020 to establish a comprehensive City-Wide and municipal operations climate and sustainability plan to guide the City's actions to achieve long-term and interim climate action and sustainability goals within 10 sectors. The final plan included:

- Development of metrics that can be used to track implementation progress.
- A template for annual reporting.
- An analysis of staffing and financial resources necessary to develop, implement, monitor plan programs and initiatives.
- Identification of most impactful climate actions/initiatives for both the community and municipal operations.
- Identification of 12 cross-cutting projects prioritizing city actions over first 3 to 5 years of implementation.
- Identification of community resources, groups, and organizations to engage with for plan implementation.



City of Dubuque, Iowa (population: 58,000)

The project, executed in 2019 and 2020, developed a comprehensive community wide and municipal operations mitigation and adaptation plan. The effort included extensive community engagement with a particular focus on reaching underrepresented and vulnerable populations, creating a highly equitable engagement process. The team also designed and implemented a Youth Engagement effort to facilitate equitable engagement of youth in the development of the plan, as well as in designing processes to empower youth to remain engaged and active in the climate action effort through the implementation phase.



Maplewood, MM (population: 41,000)

paleBLUEdot has executed multiple projects supporting the City of Maplewood's sustainability and climate action efforts since 2016. Engagements for the City include: Climate Adaptation Plan; Climate Vulnerability Assessment; GHG Inventory Baseline and Annual Update (2016- present); GHG Reduction Action Recommendations

In 2020 paleBLUEdot worked with the City of Maplewood to develop the City's first Climate Adaptation Plan. The plan addresses climate adaptation and sustainability goals in eight sectors including: Climate Health and Safety, Extreme Heat and Weather, Air Quality, Water Quality and Flooding, Greenspace and Ecosystem Health, Local Food and Agriculture, Climate Economy, and Adaptation Capacity





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