

# Climate, Sustainability, and Energy Planning Services



We have to wake up to the fierce urgency of the now..

Jim Yong Kim, President, The World Bank

## 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.



paleBLUEdot  
Certifications/Affiliations



# Planning Services

One of the core missions of paleBLUEdot is to assist local governments, communities, institutions, organizations, and businesses in understanding and improving their resilience and sustainability through assessments and action planning. paleBLUEdot has broad service offerings within the Climate Planning, Sustainability Consulting, and Renewable Energy Planning sectors.



**Climate Planning**  
Climate Adaptation and  
Mitigation Planning

paleBLUEdot provides **Climate Planning** and consulting services to help you identify vulnerabilities and engage strategies for adaptation and mitigation.

**Services:**

- Climate Vulnerability Assessments
- Climate Adaptation Planning
- Greenhouse Gas Inventories
- Climate Action Planning
- Carbon Sequestration Planning
- Climate Communication
- Resilience Planning



**Sustainability**  
Sustainability Consulting  
and Planning

paleBLUEdot's **Sustainability Consulting** and planning services support communities and organizations looking to understand and improve their environmental footprint.

**Services:**

- Sustainability Baseline Assessments
- Sustainability Action Plans
- Sustainable Purchasing Guidelines
- Supply Chain Life Cycle Assessments
- Sustainability Measurement, Analytics and Performance
- Ground Cover Assessments



**Clean Energy**  
Renewable Energy  
Planning

paleBLUEdot's **Renewable Energy Planning** enables communities, campuses, and businesses to identify and develop their clean energy potential.

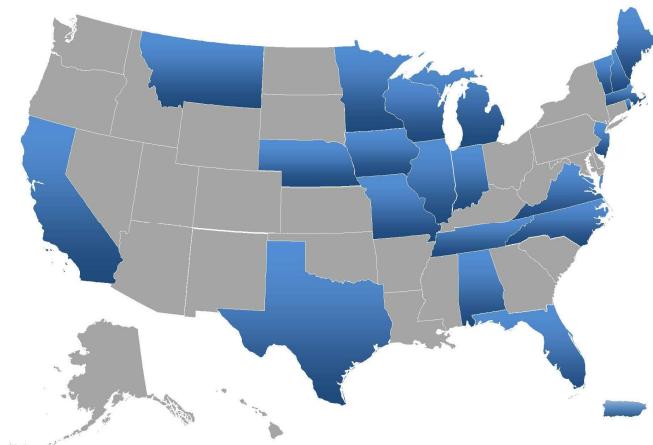
**Services:**

- Renewable Energy Potentials Study
- Renewable Energy Economic Studies
- Solar Feasibility Planning
- Solar Group Purchase Campaigns
- Renewable Energy Incentive and Program Development
- Net Zero Master Planning
- US Department of Energy Technical Assistance Provider

## Team Project Experience

The paleBLUEdot team has extensive consulting experience relevant to climate, sustainability, and renewable energy planning. Our work spans 23 States and our project experience within the last five years alone includes the work outlined in the following pages.

### paleBLUEdot National Climate, Sustainability and Energy Planning Project Map



# Team Project Experience

## (50+) Climate, 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 La Crosse**  
Climate Action Plan  
La Crosse, WI

**Town of Hartford**  
Carbon Neutral Climate Action Plan  
Hartford, VT

**Addison County**  
Climate Action Plan  
Middlebury, VT

**Middlebury College +  
Town of Middlebury**  
Comprehensive Climate Action Plan  
Middlebury, VT

## (40+) GHG Inventories (partial list)

**City of Maplewood**  
Greenhouse Gas Inventory  
2016 through present  
Maplewood, MN

**City of Edina**  
Greenhouse Gas Inventory  
2013, 2016, 2019, 2021  
Edina, MN

**Village of Northbrook**  
Greenhouse Gas Inventory  
2010, 2014, 2018, 2021  
Northbrook, IL

**City of Chattanooga**  
Greenhouse Gas Inventory  
2008, 2013, 2018  
Chattanooga, TN

**Shakopee Mdewakanton  
Sioux Community**  
Greenhouse Gas Inventory  
2010, 2014, 2018, 2021  
Northbrook, IL

**Village of Northbrook**  
Climate Action Plan  
Northbrook, IL

**Village of Skokie**  
Environmental Sustainability Plan  
Skokie, IL

**City of Burnsville**  
Sustainability and Climate Action Plan  
Burnsville, MN

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

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

**Hennepin County**  
Vehicle Emissions Reduction Strategy  
Plan  
Building Decarbonization Study  
Minneapolis, MN

## (60+) Renewable Energy Plans (partial list)

**City of Warren**  
100% Clean Energy Master Plan  
Warren, MN

**City of Northfield**  
Community-Wide Renewable  
Energy Potentials Study,  
Government Facility Renewable  
Energy Master Plan  
Northfield, MN

**City of Bloomington**  
Renewable Energy Potentials Study  
Bloomington, IN

**Hennepin County**  
Government Facility Renewable  
Energy Master Plan  
Minneapolis, MN

**Polk County**  
Government Facility Renewable  
Energy Master Plan  
Des Moines, IA

## Climate and Energy Planning Clients

(Since 2018)

### Municipal Clients

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  
La Crosse, WI  
LaFarge, WI  
Maplewood, MN  
Marion, AL  
Middlebury, VT  
Morris, MN  
Mountain Iron, MN  
New Brighton, MN  
Northbrook, IL  
Northfield, MN  
Oakdale, MN  
Peterborough, NH  
Ranier, MN  
Roseville, MN  
Saint Charles, MN  
Sandy Springs, GA

Skokie, IL  
St Louis Park, MN  
Tuskegee, AL  
Warren, MN  
Winnebago, MN  
Winthrop, MN  
Wise, VA

### County Clients

Addison County, VT  
Hennepin County, MN  
Kane County, IL  
Ramsey County, MN  
Becker County, MN  
Clay County, MN  
Douglas County, MN  
Grant County, MN  
Otter Tail County, MN  
Polk County, IA  
Pope County, MN  
Stevens County, MN  
Traverse County, MN  
Wilkin County, MN

### Tribal Nation Clients

Leech Lake Band of  
Ojibwe  
Shakopee  
Mdewakanton Sioux  
Community  
White Earth Nation

### State Clients

State of Minnesota  
State of Missouri  
State of Montana

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



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

# Team Project Experience

## Recent Climate and Sustainability Plans (partial list)

### City of Burnsville, Minnesota

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:

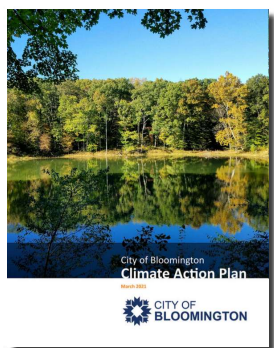
- Development of metrics that can be used to track implementation progress.
- A template for annual reporting.
- An analysis of staffing and financial resources necessary to develop, implement, monitor plan programs and initiatives.
- Identification of most impactful climate actions/initiatives for both 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 Bloomington, Indiana

In 2020 and 2021, paleBLUEdot worked with the City of Bloomington to develop the City's first Climate Action Plan. The plan support's 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.

The City also engaged paleBLUEdot to assist with establishing and organizing the City's CAP Implementation team and the creation of implementation and monitoring tools for use in integrating Climate Action within City operations.



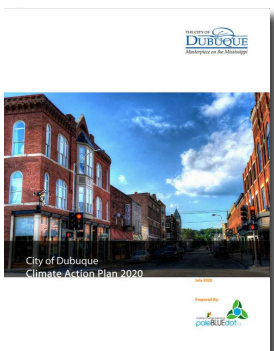
### Village of Skokie, Illinois

paleBLUEdot was selected by the Village of Skokie to develop the 2022 update to the Village's Environmental Sustainability Plan. The plan includes both municipal organizational operations as community-wide scope. The planning effort included the development of GHG inventories, operational and community vulnerability assessments, community-wide renewable energy potential assessment, community-wide ground cover, carbon sequestration, and heat island study, and broad sustainability baseline assessment of the community. The planning effort included was designed around an in-depth collaborative planning process with Village staff and community stakeholders.



### City of Dubuque, Iowa

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.



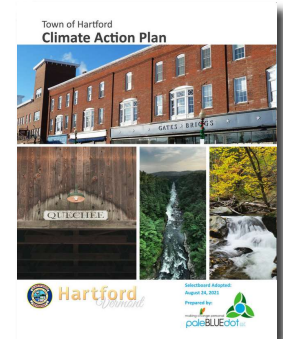
# Team Project Experience

## Recent Climate and Sustainability Plans (partial list)

### Town of Hartford, Vermont

In 2020 and 2021, paleBLUEdot worked with the Town of Hartford to develop the Town’s Climate Neutral Plan, a climate action plan guiding community-wide GHG emission reductions and Town operations to carbon neutral by 2030. The plan addresses climate mitigation and adaptation goals in broad community-wide sectors as well as municipal operations.

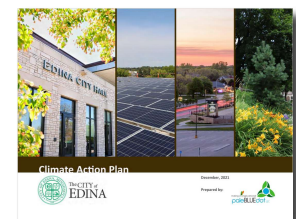
paleBLUEdot’s services included conducting a Climate Vulnerability Assessment, community-wide and Town operations GHG Inventory, community-wide renewable energy potentials study, and a Carbon Neutral Pathways assessment.



### Edina, Minnesota

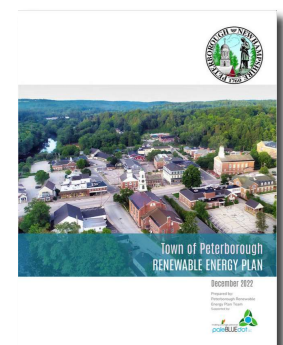
In 2021 paleBLUEdot worked with the City of Edina to develop the City’s first Climate Action Plan. The plan addresses climate adaptation and sustainability goals in eight sectors including: Buildings and Energy, Transportation, Waste Management, Water and Wastewater, Local Food and Agriculture, Greenspace and Trees, Climate Health and Safety, and Climate Economy.

paleBLUEdot’s services included conducting a Climate Vulnerability Assessment, community-wide and City operations GHG Inventory, community-wide ground cover and carbon sequestration study, community-wide renewable energy potentials study, and a Climate Action Reduction Pathways assessment. The team also lead a range of community engagement efforts.



### Town of Peterborough, New Hampshire

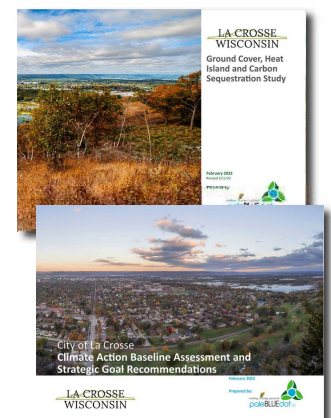
paleBLUEdot was selected by the Town of New Hampshire to work with the Peterborough Renewable Energy Planning Team (PREP) in the development of the Town’s 2022 Renewable Energy Plan. The plan outlines strategies and actions to meet the Town’s legislated commitment to reach 100% renewable energy for town operations and community-wide. The planning effort included the development of GHG inventories, community-wide renewable energy potential assessment, and broad sustainability baseline assessment of the community. The planning effort included was designed around an in-depth collaborative planning process with PREP team members.



### City of La Crosse, Wisconsin

Beginning in 2021, paleBLUEdot has been working with the City of La Crosse in developing its first Climate Action Plan. The plan builds on the City’s 2009 Sustainability Plan, reviewing the success of the actions completed through that plan implementation and expanding the scope of implementation to include new focus areas, technologies, and educational strategies. The development of the plan is rooted in significant community-specific research including Greenhouse Gas Inventories, Climate Vulnerability Assessment, Community-Wide Ground Cover and Carbon Sequestration Study, Renewable Energy Potential Assessment, and a broad Sustainability Baseline Assessment.

The effort includes extensive community engagement with a particular focus on reaching underrepresented and vulnerable populations, creating a highly equitable engagement process. The team is also implementing a Youth Engagement effort to facilitate equitable engagement of youth in the development of the plan.

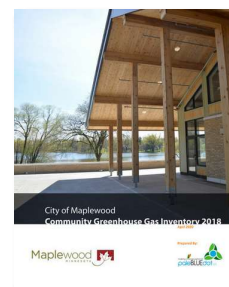


# Team Project Experience

## Recent Greenhouse Gas Inventories (partial list)

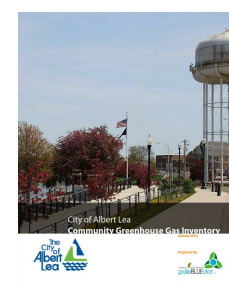
### City of Maplewood, Minnesota

paleBLUEdot completed a Baseline Community-wide GHG Inventory and City Operations GHG Assessment for the City in 2016. paleBLUEdot has since provided annual updates for community-wide and City operations for the City of Maplewood for years 2017, 2018, 2019, and is currently working on the 2020 annual update. The work included the development of reduction recommendations which were incorporated the City's Comprehensive Plan. The inventories will also serve as the basis for the City's pending Climate Action Plan.



### City of Albert Lea, Minnesota

paleBLUEdot is currently completing a Baseline Community-wide GHG Inventory. The GHG inventory includes annual assessments for years 2013, 2016, and 2019. The inventory is being completed in conjunction with the City's Climate Action and Adaptation Plan for which paleBLUEdot has been retained. The inventory includes a long-range Business-as-usual emissions forecast as well as emissions comparison to a wide range of regional peer communities. The inventories were developed in accordance to the GHG Protocol for Cities and Global Covenant of Mayor's requirements.



### Village of Northbrook, Illinois

paleBLUEdot completed a Community-wide GHG Inventory and City Operations GHG Assessment. The GHG inventory includes annual assessments for years 2010, 2014, and 2018. The inventory was completed in conjunction with the City's Climate Action Plan for which paleBLUEdot has been retained. The inventory includes a long-range Business-as-usual emissions forecast as well as emissions comparison to a wide range of regional peer communities. The inventories were developed in accordance to the GHG Protocol for Cities and Global Covenant of Mayor's requirements.



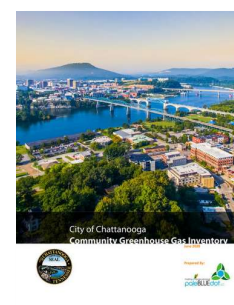
### Town of Hartford, Vermont

paleBLUEdot completed a Community-wide GHG Inventory and Town Operations GHG Assessment for the Town of Hartford Vermont. The GHG inventory includes annual assessments for years 2010, 2014, and 2018. The inventory was completed in conjunction with the City's Climate Action Plan for which paleBLUEdot has been retained. The inventory includes a long-range Business-as-usual emissions forecast as well as emissions comparison to a wide range of regional peer communities. The inventories were developed in accordance to the GHG Protocol for Cities and Global Covenant of Mayor's requirements..



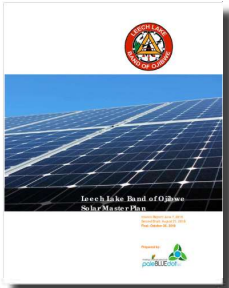
### City of Chattanooga, Tennessee

paleBLUEdot was selected to develop a community-wide GHG inventory for the City of Chattanooga. The GHG inventory includes annual assessments for years 2013, 2016, and 2019. The inventory was completed in conjunction with the City's Climate Action Plan for which paleBLUEdot has been retained. The inventory includes a long-range Business-as-usual emissions forecast as well as emissions comparison to a wide range of regional peer communities. The inventories were developed in accordance to the GHG Protocol for Cities and Global Covenant of Mayor's requirements.



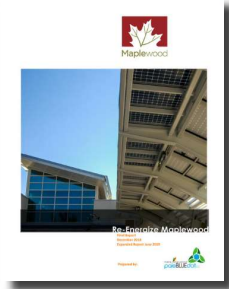
# Team Project Experience

## Recent Renewable Energy Potential Studies (partial list)



### Leech Lake Band of Ojibwe Solar Master Plan

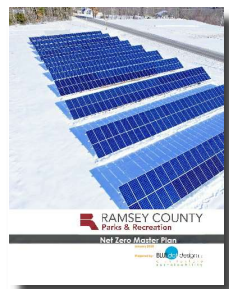
This assessment establishes a Solar Energy Master Plan for all primary Tribal facilities (70 sites). This Master Plan effort will, for all subject tribal government facilities: 1) collect annual energy use data, calculate EUI and performance evaluation against ENERGY STAR/ B3 peers 2) evaluate the viability of solar pv 3) develop a detailed solar pv concept design, calculate annual energy generation possible, and develop preliminary project budgets 4) develop a Solar PV Master Plan report summarizing all findings, identifying Tribal economic development potential of solar pv development, and propose a solar implementation plan for Tribally owned facilities.



### Re-Energize Maplewood!, City of Maplewood, Minnesota

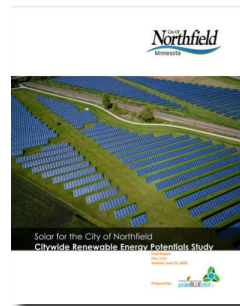
this community solar master plan is the first step towards Maplewood's Comprehensive Plan renewable energy goals and builds on the City's *Energize Maplewood!* energy action plan. This assessment includes:

- Providing solar feasibility, benefits, and funding information follow-up to homes and businesses who previously participated (100 homes, 20 businesses)
- Review of city facilities energy use history and energy action plan recommendations in support of achieving Net Zero.
- Physical site review for renewable energy characteristics, solar obstruction study, and physical plant overview.
- Development of concept renewable energy plan for all facilities and development of long-range renewable energy transition plan
- Assessing the solar pv feasibility community wide and Identifying the top 40 solar sites in the City, development of site-specific solar feasibility, benefits, and funding information.



### Ramsey County Net Zero Master Plan, Minnesota

review of county facilities energy use history and energy action plan recommendations in support of achieving Net Zero. Physical site review for renewable energy characteristics, solar obstruction study, and physical plant overview. Development of concept renewable energy plan for all facilities. Site assessments included rooftop, ground mount, and parking/carport feasibility assessment for 31 sites with installation capacities from 25 KW to 1.1 GW and over 147 million KWH in annual generation. Master Plan report including month-by-month energy generation potential, 20 year annual energy generation projection, comparison against site annual electric use, and development of long-range renewable energy transition plan including project definitions, budgets, financing options, economic payback projections, environmental payback projections, and prioritized scheduling.



### City Facility Renewable Energy Master Plan, City of Northfield, Minnesota

The City engaged paleBLUEDot to establish a detailed solar concept development, detailed assessments, opinion of probable cost, potential energy generation schedule, and potential financial performance for each of the primary government facilities within the City of Northfield. These preliminary concepts are intended to provide an initial understanding of potential for each site. Additional feasibility and assessment of sites with a low benefit to cost ratio may offer opportunities to identify more cost effective approaches for those sites.

The report provides recommended master plan implementation priorities for all government facilities reviewed in Section 4. This solar implementation master plan looks to guide the City to 100% renewable energy for all City facilities through the application of on-site arrays, community solar subscriptions, power purchase agreements, and purchase of renewable energy credits.



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