

414 Nicollet Mall
Minneapolis, MN 55401**PUBLIC DOCUMENT –
NOT PUBLIC DATA HAS BEEN EXCISED**

June 30, 2023

—Via Electronic Filing—

Anne Sell
Minnesota Department of Commerce
85 Seventh Place East, Suite 280
St. Paul, MN 55101

RE: ELECTRIC UTILITY ANNUAL REPORT
DOCKET NO. E999/M-23-11

Dear Ms. Sell:

Northern States Power Company, doing business as Xcel Energy, submits the enclosed 2022 Electric Utility Annual Report required under Minn. Rule 7610.0130. Our Annual Report consists of the enclosed pages as well as individually uploaded live spreadsheets.

Private and Trade Secret Data Justification

Please note that this report contains Trade Secret information protected by the Minnesota Data Practices Act, including private data—including names, addresses, and usage—for our largest electric customers. That information has economic value, actual or potential, from not being generally known to, and not being readily ascertainable by proper means by other persons and is subject to efforts by the Company to protect the information from public disclosure. Xcel Energy maintains this information as a trade secret based on its economic value from not being generally known and not being readily ascertainable by proper means by other persons who can obtain economic value from its disclosure or use. For this reason, we ask that the data be treated as non-public data pursuant to Minn. Stat. § 13.37, subd. 1(b).

The forecast purchase and resale energy information has economic value to Xcel Energy, its customers, suppliers, and competitors. Because Xcel Energy competes for purchased energy, fuel and transportation services in a competitive marketplace,

disclosure would directly harm Xcel Energy by making its delivered supply costs less competitive. For this reason, pursuant to Minn. Stat. § 13.37, subd. 2, we have removed this data from the public version of our filing.

We have electronically filed this document with the Minnesota Public Utilities Commission. Please feel free to contact Gail Baranko at (612) 330-6935 or gail.baranko@xcelenergy.com or Christine Schwartz at (612) 330-6193 or Christine.E.Schwartz@xcelenergy.com if you have any questions regarding this report.

Sincerely,

/s/

GAIL A. BARANKO
REGULATORY MANAGER

Enclosures

Northern States Power Company-Minnesota
Electric Utility Annual ReportDocket No. E999/M-23-11
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7610.0600 Subpart C**MINNESOTA COMMUNITIES
SERVED BY XCEL ENERGY**INFORMATION SHEET
MINNESOTA**U = Unincorporated E = Electricity only G = Gas only EG = Electricity and Gas W = Wholesale**

A Ada W	Bergen Township E	Castle Rock Township E	Corcoran E
Afton EG	Bernadotte Township E	Center City EG	Cordova Township EG
Albany E	Big Lake EG	Centerville EG	Corinna Township E
Albany Township E	Big Lake Township E	Champlin E	Cornish Township E
Albertville E	Birch Cooley Township E	Chandler E	Cosmos EG
Alma City UE	Birchwood EG	Chanhassen E	Cosmos Township EG
Almelund UEG	Bird Island E	Chaska E	Cottage Grove EG
Alton Township E	Bird Island Township E	Cherry Grove Township E	Cottonwood E
Altura E	Blaine EG	Chester Township E	Courtland E
Amador Township EG	Blakely Township E	Chickamaw Beach G	Courtland Township E
Annandale E	Blomkest E	Chippewa County E	Credit River Township E
Anoka County EG	Blooming Grove Township E	Chisago City EG	Crosslake G
Apple Valley E	Bloomington E	Chisago County EG	Crow Lake Township E
Arden Hills EG	Blue Earth County EGW	Chisago Lake Township EG	Crow Wing County UG
Arlington Township E	Blue Hill Township EG	Circle Pines E	Crystal E
Ashland Township E	Bombay UE	Clara City E	Currie E
Atwater E	Bongards UE	Claremont E	D Dahlgren E
Averill UE	Borup E	Claremont Township E	Dakota E
Avon E	Brainerd G	Clarkfield E	Dakota County EG
Avon Township E	Breezy Point G	Clarks Grove E	Danube E
B Baker UE	Bridgewater Township E	Clay County EG	Danville Township E
Balaton E	Briggs Lake G	Clear Lake EG	Darwin G
Baldwin Township G	Brighton Township E	Clear Lake Township E	Darwin Township G
Bancroft Township E	Brockway Township EG	Clearwater EG	Dassel EG
Barclay Township G	Brooklyn Center E	Clements E	Dassel Township EG
Barnesville Township*** G	Brooklyn Park E	Cleveland EG	Dayton E
Bath Township E	Brooten E	Cleveland Township G	Deephaven E
Baxter G	Brownton E	Clinton Falls UE	Deerfield Township E
Bayport EG	Brown County E	Clinton Falls Township E	Delano EGW
Baytown Township EG	Buffalo EGW	Coates E	Delavan Township E
Beauford UE	Buffalo Lake E	Cobden E	Delhi E
Beauford Township E	Buffalo Township EG	Cokato E	Dellwood EG
Becker EG	Burnsville E	Cokato Township E	Denmark Township EG
Becker Township E	Butterfield E	Cold Spring E	Dennison E
Belgrade E	Byron E	Collegetown EG	Dilworth EG
Belle Creek Township E	C Camden Township E	Collins Township E	Dodge Center E
Belle Plaine E	Canisteo Township E	Collinwood Township EG	Dodge County E
Belle Plaine Township E	Cannon City UE	Cologne E	Douglas County E
Bellechester E	Cannon City Township E	Columbia Heights E	Dresbach UE
Bellevue Township G	Cannon Falls E	Columbus Township EG	Dresbach Township E
Belvidere Township E	Cannon Falls Township E	Comstock E	Dryden Township E
Belview E	Carver E	Concord UE	Dundas EG Eagan G
Benton County EG	Carver County EG	Concord Township E	E Eagle Lake E
Benton Township E	Cass County G	Coon Rapids E	East Bethel EG

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7610.0600 Subpart C**U=Unincorporated E= Electricity only G =Gas only EG =Electricity and Gas W= Wholesale**

East Grand Forks* GW	Gibbon E	Hector E	Kingston E
East Gull Lake G	Gillford Township E	Helen Township E	Kingston Township E
Echo E	Gilmanton Township E	Helena Township E	Krain Township E
Echo Township E	Glasgow Township E	Henderson E	La Crescent E
Eden Lake Township E	Glencoe EW	Hennepin County EG	La Crescent Township E
Eden Prairie E	Glencoe Township E	Hillsdale Township E	L Lac Qui Parle County E
Eden Valley E	Glenwood E	Hilltop E	Lafayette E
Edgerton E	Glenwood Township E	Hitterdal G	Lake City EGW
Edina E	Glyndon EG	Hokah E	Lake Crystal W
Edwards Township E	Glyndon Township E	Holding Township E	Lake Edward Township G
Elba E	Golden Valley E	Holdingford EG	Lake Elmo EG
Elko New Market E	Good Thunder E	Holland E	Lake Henry E
Ellington Township E	Goodhue E	Holland Township E	Lake Henry Township E
Ellsworth Township G	Goodhue County EG	Hollywood Township E	Lake Lillian E
Elmwood Township E	Goodhue Township E	Holy Cross Township E	Lake Lillian Township E
Elysian EG	Goodview* EG	Homer Township EG	Lake Shore G
Elysian Township EG	Gordon Township E	Hopkins E	Lake St. Croix Beach E
Empire E	Grafton Township E	Houston County E	Lake Township EG
Essig UE	Granite Falls Township EW	Howard Lake E	Lake Washington G
Evan E	Grant EG	Hugo EG	Lake Wilson E
Excelsior E	Grant Township G	Hyde Park Township E	Lakeland EG
F Fairfield G	Green Isle EG	Ideal Township G	Lakeland Shores EG
Fairview Township G	Green Isle Township EG	Ihlen E	Laketown Township E
Falcon Heights EG	Green Lake UEG	I Independence EG	Lakeville E
Faribault EG	Greenfield E	Inver Grove Heights EG	Landfall EG
Faribault County E	Greenfield Township E	Iona E	Lanesburgh Township E
Farmington EG	Greenvale Township E	Iosco Township E	Lauderdale EG
Faxon Township E	Greenwald EG	Irving Township EG	Le Sauk Township EG
Featherstone Township E	Greenwood E	Isanti G	Le Sueur County EG
Felton E	Grey Cloud Island Township EG	Isanti County G	LeHillier E
Fifty Lakes G	Grove Township E	Jackson Township EG	Lemond Township E
Fletcher E	H Hadley E	Jamestown Township E	Lent Township EG
Florence E	Hale Township E	J Janesville EW	LeRay Township E
Florence Township E	Ham Lake G	Janesville Township E	Lester Prairie E
Foley EG	Hamburg EG	Jasper E	Leven Township E
Forest Lake EG	Hamel UE	Jenkins G	Lexington E
Forest Lake Township EG	Hammond E	Jenkins Township G	Lilydale EG
Fort Snelling E	Hampton E	Jessenland Township E	Lime Township E
Franconia Township EG	Hampton Township E	Jordan E	Lincoln Township E
Franklin E	Hanley Falls E	Kalmar Township E	Lindstrom EG
Franklin Township EG	Hanover E	Kandiyohi County EG	Lino Lakes EG
Freeborn County E	Hartland E	K Kandiyohi Township G	Linwood Township EG
Freedom Township E	Harris E	Kandiyohi G	Little Canada EG
Freeport E	Hartland Township E	Kasota Township EW	Long Beach E
Fridley E	Hastings E	Kasson W	Long Lake E
Frontenac UE	Hatfield E	Kellogg E	Lonsdale E
G Garden City Township E	Haven Township EG	Kenyon Township EW	Loon Lake Township G
Garvin E	Hawk Creek Township E	Kilkenny E	Loretto E
Gaylord E	Hay Creek Township EG	Kilkenny Township E	Louisville Township G
Gem Lake EG	Hayfield E	Kimball E	Lowry E

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Lura Township E	Minneiska E	Nicollet County E	Plato E
Luxemburg Township E	Minneola Township E	Nicollet Township E	Pleasant Hill Township EG
Lydia UE	Minnesota City EG	Nininger Township E	Pleasant Lake G
Lynden Township EG	Minnesota Falls Township E	Nisswa G	Plymouth E
Lyon County E	Minnesota Lake E	Nobles County G	Point Douglas Park E
Lyra Township E	Minnetonka E	Nodine UE	Polk County G
M Madelia W	Minnetonka Beach E	Norman County E	Pope County E
Madison Lake EG	Minnetrista EG	North Branch EG	Princeton G
Mahtomedi EG	Minnewaska Township E	North Branch Township G	Prinsburg E
Maine Prairie Township E	Moltke Township E	North Mankato E	Prior Lake E
Manchester E	Montevideo E	North Oaks EG	Ramsey County EG
Manhattan Beach G	Monticello E	North St. Paul G	Randolph E
Mankato E	Monticello Township E	Northfield EG	Randolph Township E
Mankato Township E	Montrose EG	Northfield Township E	R Rapidan UE
Mantorville E	Moorhead EG	Norwood Young America E	Raymond E
Mantorville Township E	Moorhead Township G	Oak Center UE	Reads Landing UE
Maple Grove E	Morgan E	Oak Park Heights EG	Red Wing EG
Maple Lake E	Morgan Township E	Oak Township E	Redwood County E
Maple Plain E	Morrison County G	C Oakdale EG	Redwood Falls W
Mapleton E	Morristown E	Oaklawn Township G	Regal E
Mapleton Township E	Morristown Township E	Oakport Township EG	Renville E
Maplewood EG	Morton E	Oakwood Township E	Renville County E
Marine on St. Croix EG	Mound E	Olmsted County E	Rheiderland Township E
Marshall W	Mounds View EG	Orono E	Rice EG
Marysville Township EG	Mountain Lake W	Orrock Township G	Rice County EG
May Township EG	Mount Pleasant Township E	Osakis E	Rich Valley E
Mayer E	Mount Vernon Township E	Oshawa Township E	Richfield E
Mazeppa E	Mower County E	Osseo E	Richmond E
Mazeppa Township E	Munson Township EG	Otisco UE	Ridgeway UE
McLeod County E	Murray County E	Otsego E	Robbinsdale E
McPherson Township EG	Navarre E	Ottawa Township E	Rock County E
Medford E	Nerstrand E	Otter Tail County G	Rockford E
Medford Township E	New Auburn E	Owatonna E	Rockford Township EG
Medicine Lake E	N New Brighton EG	Oxford Township G	Rockville EG
Medina E	New Germany E	Palmer Township G	Rogers E
Medo Township E	New Hartford Township E	Paxton Township E	Rollingstone EG
Meeker County EG	New Haven Township E	Paynesville E	Rollingstone Township E
Meire Grove E	New Hope E	P Paynesville Township E	Roscoe E
Melrose W	New London EG	Pelican Township G	Roscoe Township E
Mendota EG	New London Township EG	Pemberton E	Roseland UE
Mendota Heights EG	New Market Township E	Pepin Township E	Rosemount EG
Meriden UE	New Munich E	Pequot Lakes G	Roseville EG
Meriden Township E	New Prague E	Pillager** G	Royalton G
Middleville Township G	New Richland E	Pine Island E	Ruthton E
Mille Lacs County G	New Richland Township E	Pine Island Township E	Sabin E
Millville E	New Scandia Township EG	Pine River G	Sacred Heart E
Milton Township E	New Sweden Township E	Pine River Township G	Sacred Heart Township E
Minden Township EG	New Ulm W	Pine Springs EG	S Salem Township E
Minneapolis E	Newport EG	Pipestone E	San Francisco Township E
Minneapolis–St. Paul International Airport E	Nicollet E	Pipestone County E	Sand Creek Township E

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U = Unincorporated E = Electricity only G = Gas only EG = Electricity and Gas W = Wholesale

Santiago G	St. Mary Township E	Wakefield Township E	Windom W
Sartell EG	St. Mary's Point E	Walcott Township E	Winona EG
Sauk Center W	St. Michael EG	Walden G	Winona County EG
Sauk Rapids EG	St. Paul EG	Waldorf E	Winona Township E
Sauk Rapids Township E	St. Paul Park EG	Waltham E	Winsted
Savage E	St. Peter W	Waltham Township E	Winsted Township E
Scandia UEG	St. Stephen G	Wanamingo E	Witoka UE
Scott County EG	St. Wendell Township G	Wanamingo Township E	Wolverton E
Sedan E	Stacy EG	Warsaw UEG	Wood Lake E
Severence Township E	Stanton UE	Warsaw Township EG	Wood Lake Township E
Shafer EG	Stanton Township E	Waseca EW	Woodbury EG
Shafer Township EG	Starbuck E	Waseca County E	Woodland E
Shakopee EG	Stearns County EG	Washington County EG	Woodland Township EG
Sherburne County EG	Sterling Township E	Washington Lake Township EG	Woodstock E
Sherman Township E	Stewart E	Washington Township G	Woodville Township E
Shieldsville Township E	Stillwater EG	Wasioia UE	Wright County EG
Shoreview EG	Stillwater Township EG	Wasioia Township E	Wyanett Township G
Shorewood E	Stockholm Township E	Watab Township EG	Wyoming EG
Sibley County EG	Stoneham Township E	Waterford UEG	Wyoming Township EG
Sibley Township EG	Stony Run Township E	Watertown EG	Yellow Medicine County E
Silver Lake E	Sumter Township E	Watertown Township EG	Young America Township E
Skyberg UE	Sunfish Lake EG	Waterville E	Zimmerman G
Skyline E	Sunrise UEG	Waterville Township E	Zion Township E
Slayton E	Sunrise Township EG	Watkins E	Zumbro Falls E
Sleepy Eye W	Swedes Forest Township E	Watson E	Zumbrota E
Smiths Mill UE	Sylvan Township** G	Watson County E	Zumbrota Township E
South Bend UE	Taylor Falls EG	Watopla Township E	
South Bend Township E	Timothy Township G	Waverly EG	
South Haven E	Todd County E	Wayzata E	
South St. Paul EG	Tonka Bay E	Weaver UE	
Southside Township E	Tracy E	Webster UE	
Sparta Township E	Trosky E	Webster Township E	
Spencer Brook Township EG	Tunsberg Township E	Wegdahl UE	
Spicer EG	Tyrone Township E	Welch Township E	
Spring Hill E	Ulen	Wells Township E	
Spring Lake Park E	Union Grove Township E	West Concord E	
Spring Lake Township E	Vadnais Heights EG	West Lakeland Township EG	
Spring Park E	Vermillion E	West St. Paul EG	
Springfield W	Vermillion Township E	West Union E	
St. Anthony Village E	Veseli UE	Westport E	
St. Augusta EG	Victor Township EG	Westport Township E	
St. Bonifacius E	Victoria E	Wheatland Township E	
St. Clair EG	Villard E	Wheeling Township E	
St. Cloud EG	W Wabasha EG	White Bear Lake EG	
St. James W	Wabasha County EG	White Bear Lake Township E	
St. Joseph EG	Waconia E	White Bear Township EG	
St. Joseph Township E	Waconia Township E	Wilken County E	
St. Lawrence Township E	Wacouta Beach	Willernie EG	
St. Louis Park E	Wacouta Township EG	Wilson UEG	
St. Martin E	Waite Park EG	Wilton Township E	



7610.0320 - Forecast Methodology

NSP Electric – Minnesota Annual Report Peak Demand and Annual Electric Consumption Forecast

OVERALL METHODOLOGICAL FRAMEWORK

Xcel Energy prepares its forecast by major customer class and jurisdiction, using a variety of statistical and econometric techniques. The NSP System serves five jurisdictions. Minnesota, North Dakota and South Dakota are served by Northern States Power Company (NSPM). Wisconsin and Michigan are served by Northern States Power Company, a Wisconsin corporation (NSPW). The NSPM and NSPW Systems operate as an integrated system. The forecast is referred to as the 2023v1.0 Forecast (completed in March 2023).

SPECIFIC ANALYTICAL TECHNIQUES

1. Econometric Analysis. Xcel Energy used econometric analysis to develop jurisdictional MWh sales forecasts at the customer meter for the following sectors (exceptions to this are noted in bullet 2):
 - a. Residential without Space Heating;
 - b. Residential with Space Heating;
 - c. Small Commercial and Industrial;
 - d. Large Commercial and Industrial (Minnesota only);
 - e. Public Street and Highway Lighting (Minnesota only);
 - f. Sales to Public Authorities (Minnesota only).

Xcel Energy also used econometric analysis to develop the total system MW peak demand forecast.

2. Trend analysis was used for all other sectors, which includes Large Commercial and Industrial, Public Street and Highway Lighting, Other Sales to Public Authorities for all jurisdictions except Minnesota; and Interdepartmental sales for all jurisdictions.
3. Loss Factor Methodology. Loss factors by jurisdiction were used to convert the sales forecasts into system energy requirements (at the generator).
4. Judgment. Judgment is inherent to the development of any forecast. Whenever possible, Xcel Energy used quantitative models to structure its judgment in the forecasting process.

The sales forecasts are estimates of MWh levels measured at the customer meter. They do not include line or other losses. The various jurisdictional class forecasts were summed to yield the total system sales forecast. Native energy requirements are measured at the generator and include line and other losses. Xcel Energy created the native energy requirements based on the sales forecasts. A system loss factor for each jurisdiction, developed based on average historical losses, is applied to the sales forecast to calculate total losses. The sum of the MWh sales and the MWh losses equals the native energy requirements. The native energy requirements, along with peak producing weather and binary variables, then were used as independent variables within an econometric model to forecast MW peak demand for the Xcel Energy North System.

MODELS USED

1. ***Residential Econometric Models.*** Sales to Residential customers represent 31.5% of NSP System electric sales in 2022. Residential sales are divided into with space heating and without space heating customer classes for each NSPM jurisdiction. NSPW jurisdictions only have a total Residential customer class. Regression models using historical data are developed for each Residential sector. A variety of independent variables were used in the models, including:
 - Real Personal Income or Real Personal Income per Capita for the respective jurisdiction;
 - Average price (reported revenues/reported sales) for the respective jurisdiction;
 - Gross Metro Product for the respective jurisdiction;
 - Total population for the respective jurisdiction;
 - Average price of West Texas Intermediate crude oil;
 - Actual heating (HDD) and temperature humidity index (THI) degree days;
 - Number of customers;
 - Number of monthly billing days;
 - Month specific binary variables;
 - Other binary and or trend variables;
2. ***Small Commercial and Industrial Econometric Models.*** The small commercial and industrial sector represents 42.75% of NSP System electric sales in 2022. The models are econometric regressions using historical data. The models include a combination of variables, including the following:
 - Number of small commercial and industrial customers;
 - Gross State/Metro Product for respective jurisdiction;
 - Employment for respective jurisdiction;
 - Actual heating (HDD) and temperature humidity index (THI) degree days;
 - Number of monthly billing days.
 - Month specific binary variables
 - Other binary and or trend variables.
3. ***Large Commercial and Industrial Econometric Model.*** Sales to the large commercial and industrial sector represent 25.2% of NSP System electric sales in 2022. The regression model uses historical data and the following explanatory variables:
 - Industrial Production Index;
 - Number of monthly billing days.
 - Month specific binary variables;
 - Other binary variables.
4. ***Others.*** Sales to the “Others” sector represent 0.6% of NSP System electric sales in 2022. This sector includes Public Street and Highway Lighting (PSHL), Sales to Public Authorities (OSPA) and Interdepartmental (IDS) sales. Regression models are used to estimate sales for the PSHL and OSPA classes (Minnesota only), using historical data and a combination of variables, including the following:
 - Population for the respective jurisdiction;
 - Gross Metro Product for the respective jurisdiction;
 - Number of monthly billing days;

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- Month specific binary variables;
 - Other binary and or trend variables.
5. ***Municipals.*** As of 2014 there are no longer any municipal customers for whom NSP or NSPW provides firm service.
 6. ***Peak Demand Model.*** An econometric model was used to develop the base peak demand forecast for the entire planning period. The model includes a combination of variables, including the following:
 - Weather normalized native energy requirements adjusted for the impacts of historical DSM programs and without adjustments for future DSM, future distributed solar generation behind the customer's meter, and future electric vehicle charging;
 - Peak producing weather by month weighted by customer counts;
 - Binary variables.

METHODOLOGY STRENGTHS AND WEAKNESSES

The strength of the process Xcel Energy used for this forecast is the richness of the information obtained during the analysis. Xcel Energy's econometric forecasting models are based on sound economic and statistical theory. Historical modeling and forecast drivers are based on economic and demographic variables that are easily measured and analyzed. The use of models by class and jurisdiction gives greater insight into how the NSP System is growing, thereby providing better information for decisions to be made in the areas of generation, transmission, marketing, conservation, and load management.

With respect to accuracy, forecasts of this duration are inherently uncertain. Planners and decision makers must be keenly aware of the inherent risk that accompanies long-term forecasts. They must also develop plans that are robust over a wide range of future outcomes.

MODELING DATA

Xcel Energy uses internal and external data sources to create its MWh sales and MW peak demand forecast.

Historical MWh sales are taken from Xcel Energy's internal company records, fed by its billing system. Historical coincident net peak demand data is obtained through company records. The load management estimates are added to the net peak demand to derive the base peak demand.

Monthly weather data is collected for the Minneapolis/St. Paul, Fargo, Sioux Falls, and Eau Claire metropolitan areas. The heating degree-days and THI degree-days are calculated internally based on this weather data.

Economic and demographic data is obtained from the Bureau of Labor Statistics, U.S. Department of Commerce, and the Bureau of Economic Analysis. Typically, they are accessed from IHS Markit, and reflect the most recent values of those series at the time of modeling.

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DEMAND-SIDE MANAGEMENT PROGRAMS

The Company sponsors demand-side management (“DSM”) programs in the Minnesota and South Dakota jurisdictions. There are no Company-sponsored DSM programs in the North Dakota, Michigan, or Wisconsin jurisdictions. For Minnesota and South Dakota, the regression model results for the Residential and Commercial and Industrial classes are reduced to account for the expected impacts of DSM programs.

The DSM methodology utilizes a transparent method for projecting the impacts of energy efficiency and load management on sales forecasts. There are three distinct steps to this process:

- Collect and calculate historical and current effects of DSM on observed sales;
- Project the forecast using observed data with the impact of DSM removed (i.e. increase historical sales to show hypothetical case without DSM);
- Adjust the forecast to show the impact of all planned DSM in future years.

The first step involves collecting data involving any measure that would cause an impact on the time period utilized in the sales forecast. In this model, we use the time period from 2008 to December 2022 and therefore the historical DSM would include any measure that results in decreased sales in any (or all) years from 2008 through December 2022. Since the vast majority of DSM measures have a lifetime greater than one year (exceptions include but are not limited to behavioral energy savings programs), the impact on sales will include the year that a measure is installed as well as any years that follow until the measure has reached the end of its useful life. For example, a residential lighting measure that was installed in 2008 and has a life of 6 years will result in a sales reduction from 2008 to 2013 (6 full calendar years). Though a measure may be installed in June of 2008 and would persist until May of 2013, the Company believes that the simplifying case in which all measures are installed for the entire calendar year is sufficient.

Due to the wide variation of measures available to customers, the Company sums the savings for each year by DSM program to optimize the level of detail and depth of history included in the model. Achievement data are from the approved Conservation Improvement Program (CIP) Status Reports filed annually for each year since 1996.

The Company’s Saver’s Switch program results in short-term interruptions of service designed to reduce system capacity requirements rather than permanent reductions in energy use, so it is not considered here.

Adjustments equivalent to those made to sales have also been made to the historical monthly energy and peak demand used in the peak demand regression model and to the resulting peak demand forecast.

BEHIND-THE-METER DISTRIBUTED SOLAR GENERATION

In response to the establishment of a Solar Energy Standard (SES) by the Minnesota Legislature an increased emphasis has been placed on distributed solar generation. A forecast of the expected behind-the-meter solar generation impact on demand and energy has been developed based on new programs designed to meet goals established for the SES. Impacts of customer sited behind-the-meter solar installations on the NSP system were

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extracted from this forecast and used to develop adjustments to reduce the class level sales for Minnesota and the NSP System peak demand forecast. This process of adjusting the sales and peak demand forecasts for behind-the-meter solar generation is similar to the adjustments made for DSM programs. There are three distinct steps to this process:

- Collect and calculate historical and current effects of behind-the-meter solar generation on observed sales and peak demand;
- Project the forecast using observed data with the impact of behind-the-meter removed (i.e. increase historical sales to show hypothetical case without behind-the-meter solar generation);
- Adjust the forecast to show the impact of all current and planned behind-the-meter solar generation in future years.

Xcel has calculated and metered the historical impact of distributed solar generation on customer sales and peak demands.

Once the total impact of DSM in effect and distributed solar generation is calculated for each year, a hypothetical sales data set is created. This series consists of the observed sales from 2008 through December 2022 plus the effective DSM calculated for all DSM measures installed in that year as well as achieved savings from programs in prior years that are still within the useful measure life, plus the historical distributed solar generation.

In the second step, the hypothetical sales data is used to generate a sales forecast that has entirely excluded the impacts of Company-sponsored DSM and distributed solar generation. It is important to note that customer-initiated DSM or DSM due to codes and standards (naturally occurring DSM) is not calculated as part of the CIP. The methodology to account for codes and standards changes is described below.

In the third step, once the sales forecast based on hypothetical sales has been generated, the Company adjusts the forecast to account for future DSM and future distributed solar generation. The forecast of future distributed solar generation is developed by Xcel Energy's Load Research Department. A monthly forecast of the impact of new DSM programs (excluding Saver's Switch) is developed by Xcel Energy's DSM Regulatory Strategy and Planning Department. The future DSM sales volumes are combined with the continuing impacts of historical DSM measures and future solar generation and used to reduce the class level sales forecasts that result from the regression modeling process to determine the DSM and solar-adjusted sales. Impacts from all program installations through December 2022 are assumed to be imbedded in the historical data, so only new program installations and the continuing impact of historical programs are included in the DSM-solar generation adjustment. The source for Company-sponsored DSM adjustments is based on the CIP Plan in effect at the time of the forecast.

PLUG-IN ELECTRIC VEHICLE CHARGING

The residential sales and peak demand forecasts also are adjusted to account for the use of plug-in electric vehicle charging. The penetration of electric vehicles in Xcel Energy's service territory has been increasing over the past few years and is expected to continue increasing. Because this trend of increasing electric vehicle penetration is expected to continue, the Residential sales forecasts have been adjusted for to account for future

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electricity usage from home charging of electric vehicles. In addition, the Small Commercial and Industrial and Large Commercial and Industrial sales forecasts have been adjusted to account for future electricity usage from the charging of medium-duty and heavy-duty electric vehicles. The forecast adjustment for the monthly consumption of electricity for electric vehicle charging is based on a model that incorporates the stock of electric vehicles, electricity consumption per vehicle, an adoption rate for this technology, and financial incentives.

Because the peak demand forecast was developed with an energy forecast that had the adjustments for electric vehicle charging removed, the peak demand forecast includes a post-modeling adjustment to account for future electric vehicle charging impacts at the system peak. The peak demand forecast adjustment is based on monthly electric vehicle energy consumption, daily consumption profile, and the time of day the monthly peak hour occurs.

The electric vehicle assumptions for the expected MWh sales impacts and MW peak demand impacts were developed by Xcel Energy's Risk Management department.

DATA ADJUSTMENTS AND ASSUMPTIONS

1. Weather Adjustments. Xcel Energy adjusted its monthly weather data to reflect billing schedules. Therefore, the monthly weather data corresponds exactly with the billing month schedule.
2. Economic Adjustments. All price data and related economic series were deflated to 2012 constant dollars.
3. Large Customer Adjustments. The large commercial and industrial sales model results have been adjusted to account for announced changes in operations for large customers.
4. Demand Forecast Wholesale Adjustment. An adjustment to account for terminating firm wholesale customer contracts was incorporated into the development of the peak demand forecast. Estimated historical coincident peak demand and energy for all firm wholesale customers were removed from the regression model data to create a consistent data series for retail demand and energy.
5. COVID Pandemic Assumptions. The COVID-19 pandemic has had an impact on Xcel Energy sales. The Residential class experienced an increase in sales resulting from an increase in working-from-home and social distancing measures. Over the next few years Residential sales are expected to experience declining sales growth, in part due to more employees return to the workplace. Residential regression models use the Google Mobility Index to explain the historical change in consumption due to COVID-19. Conversely, the Small Commercial and Industrial and Large Commercial and Industrial customer classes have experienced a sharp decline in sales resulting from pandemic related economic weakness and business shutdowns. Recovery from this downturn is expected with Small Commercial and Industrial and Large Commercial and Industrial sales growth over the next few years. This recovery is driven by the economic explanatory variables in the Commercial and Industrial regression models. The COVID-19 pandemic impacts on the peak demand forecast are driven by the energy forecast.

ASSUMPTIONS AND SPECIAL INFORMATION

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7610.0320

Xcel Energy believes that its process is a reasonable and workable one to use as a guide for its future energy and load requirements. The underlying assumptions used to prepare Xcel Energy's median forecast are as follows:

1. Demographic Assumption. Population or household projections are essential in the development of the long-range forecast. The forecasts of customers are derived from population and household projections provided by IHS Markit, Inc., and reviewed by Xcel Energy staff. Xcel Energy customer growth mirrors demographic growth over the forecast period.
2. Weather Assumption. Xcel Energy assumed "normal" weather in the forecast horizon. Normal weather is defined as the average weather pattern over the 20-year period from 2003-2022. The variability of weather is an important source of uncertainty. Xcel Energy's energy forecasts are based on the assumption that the normal weather conditions will prevail in the forecast horizon. Weather-related demand uncertainties are not treated explicitly in this forecast.
3. Loss Factor Assumptions. The loss factors are important to convert the sales forecast to energy requirements. Xcel Energy uses a historical average loss factor for each jurisdiction, and assumes it will not change in the future.

FORECAST COORDINATION

Xcel Energy reports its energy and peak demand forecasts to the Midwest ISO (MISO). MISO then combines the forecasts of all its member utilities. Xcel Energy also reports its forecast to the Public Service Commission of Wisconsin as part of its Strategic Energy Assessment (SEA) process. In this process, the Wisconsin portion of the total Xcel Energy System load is combined with other Wisconsin electric utilities to form a statewide Wisconsin forecast.

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7610.0410 – Future Facility Additions

7610.0420 – Future Facility Retirements

The Company's most recent, completed, Resource Plan (Docket No. E002/RP-19-368) was approved by Minnesota Public Utilities Commission (MPUC or the Commission) through an Order issued April 15, 2022. The Alternate Preferred Plan, filed June 25, 2021, was approved for the purposes of planning.

The Order to close the 2020-2034 Upper Midwest Resource Plan docket identified the Company shall:

- Retire the AS King Generating Station in 2028 and the Sherco County Generation Station Unit 3 in 2030.
- Acquire an average of 780 GWh energy efficiency, annually.
- Acquire 400 MW of additional Demand Response by 2023, consistent with the previous IRP order.
- Repower existing resources as needed for black start purposes.
- Acquire, by 2026, 1300 MW of solar resources to replace the capacity following the retirement of Sherburne County Generation Station Unit 2, prioritizing the use of associated interconnection rights, some of which could be fulfilled by the Company's pending proposal for a 460 MW solar installation near the existing Sherco site ("Sherco Solar").
- Between 2027-2032 add an additional 600 MW solar and 2,150 MW wind powered generation at Sherco, and an additional approximately 600 MW to reutilize the A.S. King interconnection rights.
- Commence the Certificate of Need and route permitting proceedings for 345 kV transmission lines extending from both Sherburne County Generation site and AS King Generation site. This transmission is intended to develop new energy resources and be connected to the MISO transmission grid through the existing interconnection points.
- Submit the next resource plan by February 1, 2024.

The 2020 Review of Remaining Lives (Docket No. E,G002/D-19-723) – an annual review of the remaining lives depreciation of its electric and gas production and gas storage facilities service lives and salvage rates – updated the Remaining Life forecast for all Northern States Power Company – Minnesota (NSPM) units. This remaining life is associated with Financial End of Life for rate making purposes. Projections for the 2023-2033 timeframe are listed below. This is a tentative schedule, subject to change, pending the

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outcome of future Annual Review of Remaining Lives filings and the next Resource Plan filing.

Projected Plant Retirements*			
Year	Unit/Site	Size (MW)***	Fuel Type
2022	Sherco Unit 2**	765	Coal
2023	Blue Lake Units 1 thru 4	160	Oil
2025	Sherco Unit 1	765	Coal
2026	Inver Hills	281	Natural Gas
2027	Red Wing	23	Refused Derived Fuel (RDF)
2027	Wilmarth	25	Refused Derived Fuel (RDF)
2027	St. Croix Falls	23.2	Hydro
2029	AS King	511	Coal
2030	Sherco Unit 3	525	Coal
2030	Wheaton	250	Oil/Natural Gas
2030	French Island 1-2	15	Municipal Solid Waste
2030	French Island 3-4	160	Oil
2030	Monticello****	646	Nuclear
2031	Black Dog 2,5	298	Natural Gas
2033	Prairie Island 1	566	Nuclear

Notes:

* Years indicated represent the financial end-of-life as identified in the above referenced Remaining Lives docket. Financial end-of-life dates may be adjusted to coincide with the MISO Planning Year, ending May 31st.

** While Sherco 2 will reach its financial end of life at the end of 2022, the plant will be available to provide capacity in 2023.

*** Size represents nameplate or contracted value of the resource.

**** Per the Order in the Resource Plan, the Company is pursuing a 10-year life extension.

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The following list outlines current Power Purchase Agreements (PPA) and their scheduled termination dates.

Projected PPA Retirements			
Year	Unit/Site	Size (MW)***	Fuel Type
2023	Renewable PPAs	86	Renewable
2024	St. Paul CoGen	24	Biomass
2024	Renewable PPAs	61	Renewable
2025	Renewable PPAs	25	Renewable
2025	Manitoba Hydro	500	Hydro
2025	Manitoba Hydro – Diversity Agreement	350	Hydro
2025	Invenergy	358	Natural Gas
2026	Mankato 1	375	Natural Gas
2026	Renewable PPAs	23	Renewable
2027	LS Power	245	Natural Gas
2028	Renewable PPAs	147	Renewable
2029	Renewable PPAs	53	Renewable
2030	Renewable PPAs	28	Renewable
2031	Renewable PPAs	108	Renewable
2032	Renewable PPAs	472	Renewable
2033	Renewable PPAs	150	Renewable

Xcel Energy proposes to fulfill future electric generating resource needs through our resource planning process and subsequent resource acquisition processes. The specific generation technology, location of future generation facilities, and mix of utility-owned, PPAs, and other resources are subject to approval by the Commission.

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**Northern States Power Company-Minnesota
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7610.0600 E

Northern States Power Company, a Minnesota corporation

7610.0600E

Minnesota Retail Electric Fuel Cost Charges Table (Mills/kWh)

June 2021- June 2022	FUEL COST CHARGE					
	Residential	C&I Non-Demand	C&I Demand			Outdoor Lighting
			Non-TOD	TOD		
				On-Peak	Off-Peak	
June 2021	36.17	36.63	35.48	44.38	29.02	28.34
July	30.86	31.25	30.27	37.86	24.76	24.18
August	30.12	30.49	29.54	36.96	24.16	23.59
September	30.67	31.06	30.10	37.63	24.62	24.05
October	31.30	31.69	30.70	38.38	25.11	24.53
November	28.69	29.05	28.14	35.19	23.02	22.47
December	26.72	27.06	26.21	32.79	21.45	20.95
January 2022	25.97	26.30	25.48	31.84	20.86	20.38
February	30.66	31.04	30.08	37.61	24.60	24.03
March	32.68	33.09	32.06	40.09	26.23	25.62
April	32.56	32.97	31.94	39.92	26.14	25.54
May	34.53	34.96	33.87	42.34	27.72	27.08
June	39.79	40.29	39.03	48.80	31.94	31.19

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June 30, 2023
7610.0600E

Electric Rate Schedules
June 1, 2022

Northern States Power Company, a Minnesota corporation
 Minneapolis, Minnesota 55401

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MINNESOTA ELECTRIC RATE BOOK - MPUC NO. 2

RESIDENTIAL SERVICE
RATE CODE A00, A01, A03

Section No. 5
 31st Revised Sheet No. 1

AVAILABILITY

Available to any residential customer for domestic purposes only in a single private residence and qualifying farm customers.

DETERMINATION OF CUSTOMER BILLS

Customer bills shall reflect energy charges (if applicable) based on customer's kWh usage, plus a customer charge (if applicable), plus demand charges (if applicable) based on customer's kW billing demand as defined below. Bills may be subject to a minimum charge based on the monthly customer charge and / or certain monthly or annual demand charges. Bills also include applicable riders, adjustments, surcharges, voltage discounts, and energy credits. Details regarding the specific charges applicable to this service are listed below.

RATE

	<u>Standard</u>	<u>Electric Space Heating</u>	
Customer Charge per Month – Water Heating (A00)	\$0.00	N/A	
– Overhead (A01)	\$8.00	\$10.00	
– Underground (A03)	\$10.00	\$12.00	
Energy Charge per kWh			
June - September	\$0.10301	\$0.10301	R
Other Months	\$0.08803	\$0.05988	R

In addition, customer bills under this rate are subject to the following adjustments and/or charges.

FUEL CLAUSE

Bills are subject to the adjustments provided for in the Fuel Clause Rider.

RESOURCE ADJUSTMENT

Bills are subject to the adjustments provided for in the Conservation Improvement Program Adjustment Rider, the State Energy Policy Rate Rider, the Renewable Development Fund Rider, the Transmission Cost Recovery Rider, the Renewable Energy Standard Rider and the Mercury Cost Recovery Rider.

ENVIRONMENTAL IMPROVEMENT RIDER

Bills are subject to the adjustments provided for in the Environmental Improvement Rider.

MONTHLY MINIMUM CHARGE

Customer Charge.

(Continued on Sheet No. 5-1.1)

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MINNESOTA ELECTRIC RATE BOOK - MPUC NO. 2

RESIDENTIAL SERVICE
RATE CODE A00, A01, A03

Section No. 5
 32nd Revised Sheet No. 1

AVAILABILITY

Available to any residential customer for domestic purposes only in a single private residence and qualifying farm customers.

DETERMINATION OF CUSTOMER BILLS

Customer bills shall reflect energy charges (if applicable) based on customer's kWh usage, plus a customer charge (if applicable), plus demand charges (if applicable) based on customer's kW billing demand as defined below. Bills may be subject to a minimum charge based on the monthly customer charge and / or certain monthly or annual demand charges. Bills also include applicable riders, adjustments, surcharges, voltage discounts, and energy credits. Details regarding the specific charges applicable to this service are listed below.

RATE

	<u>Standard</u>	<u>Electric Space Heating</u>
Customer Charge per Month – Water Heating (A00)	\$0.00	N/A
– Overhead (A01)	\$8.00	\$10.00
– Underground (A03)	\$10.00	\$12.00
Energy Charge per kWh		
June - September	\$0.10301	\$0.10301
Other Months	\$0.08803	\$0.05988

INTERIM RATE ADJUSTMENT

An 8.92% Interim Rate Surcharge will be applied to rate components specified in the "Interim Rate Surcharge Rider" to service provided beginning January 1, 2022.

N
 N
 N

In addition, customer bills under this rate are subject to the following adjustments and/or charges.

FUEL CLAUSE

Bills are subject to the adjustments provided for in the Fuel Clause Rider.

RESOURCE ADJUSTMENT

Bills are subject to the adjustments provided for in the Conservation Improvement Program Adjustment Rider, the State Energy Policy Rate Rider, the Renewable Development Fund Rider, the Transmission Cost Recovery Rider, the Renewable Energy Standard Rider and the Mercury Cost Recovery Rider.

ENVIRONMENTAL IMPROVEMENT RIDER

Bills are subject to the adjustments provided for in the Environmental Improvement Rider.

MONTHLY MINIMUM CHARGE

Customer Charge.

(Continued on Sheet No. 5-1.1)

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MINNESOTA ELECTRIC RATE BOOK - MPUC NO. 2

RESIDENTIAL SERVICE (Continued)
RATE CODE A00, A01, A03

Section No. 5
 10th Revised Sheet No. 1.1

SURCHARGE

In certain communities, bills are subject to surcharges provided for in a Surcharge Rider.

LOW INCOME ENERGY DISCOUNT RIDER

Bills are subject to the adjustment provided for in the Low Income Energy Discount Rider.

The following are terms and conditions for service under this tariff.

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LATE PAYMENT CHARGE

Any unpaid balance over \$10.00 is subject to a 1.5% late payment charge or \$1.00, whichever is greater, after the date due. The charge may be assessed as provided for in the General Rules and Regulations, Section 3.5.

LOW INCOME ENERGY DISCOUNT

Energy discount is available to qualified low income customers under this schedule subject to the provisions contained in the Low Income Energy Discount Rider.

OTHER PROVISIONS

This schedule is also subject to provisions contained in Rules for Application of Residential Rates.

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MINNESOTA ELECTRIC RATE BOOK - MPUC NO. 2

**RESIDENTIAL TIME OF DAY SERVICE
 RATE CODE A02, A04**

Section No. 5
 31st Revised Sheet No. 2

AVAILABILITY

Available to any residential customer for domestic purposes only in a single private residence and qualifying farm customers.

DETERMINATION OF CUSTOMER BILLS

Customer bills shall reflect energy charges (if applicable) based on customer's kWh usage, plus a customer charge (if applicable), plus demand charges (if applicable) based on customer's kW billing demand as defined below. Bills may be subject to a minimum charge based on the monthly customer charge and / or certain monthly or annual demand charges. Bills also include applicable riders, adjustments, surcharges, voltage discounts, and energy credits. Details regarding the specific charges applicable to this service are listed below.

RATE

	<u>Standard</u>	<u>Electric Space Heating</u>	
Customer Charge per Month			
Overhead (A02)	\$10.00	\$12.00	
Underground (A04)	\$12.00	\$14.00	
On Peak Period Energy Charge per kWh			
June - September	\$0.20497	\$0.20497	R
Other Months	\$0.16508	\$0.09284	R
Off Peak Period Energy Charge per kWh			
June - September	\$0.04170	\$0.04170	R
Other Months	\$0.04170	\$0.04170	R

In addition, customer bills under this rate are subject to the following adjustments and/or charges.

FUEL CLAUSE

Bills are subject to the adjustments provided for in the Fuel Clause Rider.

RESOURCE ADJUSTMENT

Bills are subject to the adjustments provided for in the Conservation Improvement Program Adjustment Rider, the State Energy Policy Rate Rider, the Renewable Development Fund Rider, the Transmission Cost Recovery Rider, the Renewable Energy Standard Rider and the Mercury Cost Recovery Rider.

ENVIRONMENTAL IMPROVEMENT RIDER

Bills are subject to the adjustments provided for in the Environmental Improvement Rider.

(Continued on Sheet No. 5-3)

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MINNESOTA ELECTRIC RATE BOOK - MPUC NO. 2

RESIDENTIAL TIME OF DAY SERVICE
RATE CODE A02, A04

Section No. 5
 32nd Revised Sheet No. 2

AVAILABILITY

Available to any residential customer for domestic purposes only in a single private residence and qualifying farm customers.

DETERMINATION OF CUSTOMER BILLS

Customer bills shall reflect energy charges (if applicable) based on customer's kWh usage, plus a customer charge (if applicable), plus demand charges (if applicable) based on customer's kW billing demand as defined below. Bills may be subject to a minimum charge based on the monthly customer charge and / or certain monthly or annual demand charges. Bills also include applicable riders, adjustments, surcharges, voltage discounts, and energy credits. Details regarding the specific charges applicable to this service are listed below.

RATE

	<u>Standard</u>	<u>Electric Space Heating</u>
Customer Charge per Month		
Overhead (A02)	\$10.00	\$12.00
Underground (A04)	\$12.00	\$14.00
On Peak Period Energy Charge per kWh		
June - September	\$0.20497	\$0.20497
Other Months	\$0.16508	\$0.09284
Off Peak Period Energy Charge per kWh		
June - September	\$0.04170	\$0.04170
Other Months	\$0.04170	\$0.04170

INTERIM RATE ADJUSTMENT

An 8.92% Interim Rate Surcharge will be applied to rate components specified in the "Interim Rate Surcharge Rider" to service provided beginning January 1, 2022.

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In addition, customer bills under this rate are subject to the following adjustments and/or charges.

FUEL CLAUSE

Bills are subject to the adjustments provided for in the Fuel Clause Rider.

RESOURCE ADJUSTMENT

Bills are subject to the adjustments provided for in the Conservation Improvement Program Adjustment Rider, the State Energy Policy Rate Rider, the Renewable Development Fund Rider, the Transmission Cost Recovery Rider, the Renewable Energy Standard Rider and the Mercury Cost Recovery Rider.

ENVIRONMENTAL IMPROVEMENT RIDER

Bills are subject to the adjustments provided for in the Environmental Improvement Rider.

(Continued on Sheet No. 5-3)

Date Filed: 12-14-21	By: Christopher B. Clark	Effective Date: 01-01-22
	President, Northern States Power Company, a Minnesota corporation	
Docket No. E002/GR-21-630		Order Date: 12-23-21

Northern States Power Company, a Minnesota corporation
 Minneapolis, Minnesota 55401

MINNESOTA ELECTRIC RATE BOOK - MPUC NO. 2

RESIDENTIAL TIME OF DAY SERVICE (Continued)
RATE CODE A02, A04

Section No. 5
 13th Revised Sheet No. 3

MONTHLY MINIMUM CHARGE

Customer Charge.

SURCHARGE

In certain communities, bills are subject to surcharges provided for in a Surcharge Rider.

LOW INCOME ENERGY DISCOUNT RIDER

Bills are subject to the adjustment provided for in the Low Income Energy Discount Rider.

The following are terms and conditions for service under this tariff.

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LATE PAYMENT CHARGE

Any unpaid balance over \$10.00 is subject to a 1.5% late payment charge or \$1.00, whichever is greater, after the date due. The charge may be assessed as provided for in the General Rules and Regulations, Section 3.5.

LOW INCOME ENERGY DISCOUNT

Energy discount is available to qualified low income customers under this schedule subject to the provisions contained in the Low Income Energy Discount Rider.

DEFINITION OF PEAK PERIODS

The on peak period is defined as those hours between 9:00 a.m. and 9:00 p.m. Monday through Friday, except the following holidays: New Year's Day, Good Friday, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, and Christmas Day. When a designated holiday occurs on Saturday, the preceding Friday will be designated a holiday. When a designated holiday occurs on Sunday, the following Monday will be designated a holiday. The off peak period is defined as all other hours. Definition of on peak and off peak period is subject to change with change in Company's system operating characteristics.

OPTIONAL TRIAL SERVICE

Customers may elect time of day service for a trial period of three months. If a customer chooses to return to non-time of day service after the trial period, the customer will pay a charge of \$20.00 for removal of time of day metering equipment.

(Continued on Sheet No. 5-4)

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		President, Northern States Power Company, a Minnesota corporation		
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Northern States Power Company, a Minnesota corporation
Minneapolis, Minnesota 55401

MINNESOTA ELECTRIC RATE BOOK - MPUC NO. 2

RESIDENTIAL TIME OF DAY SERVICE (Continued)
RATE CODE A02, A04

Section No. 5
6th Revised Sheet No. 4

TERMS AND CONDITIONS OF SERVICE

1. Customer selecting the above time of day rate schedule will remain on this rate for a period of not less than 12 months, except as provided under Optional Trial Service. While served under this schedule, the Residential Service rate is not available.
2. This schedule is also subject to provisions contained in Rules for Application of Residential Rates.
3. Time of Day Metering Charge per Month Option (Closed): For any customer who prior to November 1, 1988, elected to pay a non-refundable payment of \$310.00 in lieu of the time of day metering charge, the monthly customer charge is reduced by \$2.00.

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		President, Northern States Power Company, a Minnesota corporation		
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Northern States Power Company, a Minnesota corporation
 Minneapolis, Minnesota 55401

MINNESOTA ELECTRIC RATE BOOK - MPUC NO. 2

**RESIDENTIAL TIME OF USE PILOT PROGRAM
 SERVICE
 RATE CODE A72, A74**

Section No. 5
 1st Revised Sheet No. 4.1

PILOT PROGRAM DESIGN

This is an experimental rate design for the residential Time of Use Pilot Program to be applied for two years from the effective date of this rate schedule. Participating customers will have received Residential Service without electric space heating prior to the Pilot, and may elect a return to the Residential Service rate schedule following the Pilot.

AVAILABILITY

A maximum of 10,000 customers will be selected to receive service with this rate schedule. The Company will determine pilot participants that receive service through the Hiawatha West, Midtown, or Westgate substations. Pilot participants will not include customers that are on net metering service or have other interconnected distributed generation on their premise, or customers that also receive Energy Controlled (Non-Demand Metered) Service, Residential Electric Vehicle Service, Limited Off-Peak Service, or customers that are medical equipment-dependent. Pilot participants may elect to opt out of participation in this Pilot for a specific premise.

DETERMINATION OF CUSTOMER BILLS

Customer bills shall reflect energy charges (if applicable) based on customer's kWh usage, plus a customer charge (if applicable), plus demand charges (if applicable) based on customer's kW billing demand as defined below. Bills may be subject to a minimum charge based on the monthly customer charge and / or certain monthly or annual demand charges. Bills also include applicable riders, adjustments, surcharges, voltage discounts, and energy credits. Bill Protection may also apply. Details regarding the specific charges applicable to this service and Bill Protection are listed below.

RATE

Customer Charge per Month

Overhead (A72)	\$8.00
Underground (A74)	\$10.00

Energy Charge per kWh

June – September		
On-Peak Period	\$0.22576	R
Mid-Peak Period	\$0.09013	R
Off-Peak Period	\$0.02784	R
Other Months		
On-Peak Period	\$0.19266	R
Mid-Peak Period	\$0.07515	R
Off-Peak Period	\$0.02784	R

In addition, customer bills under this rate are subject to the following adjustments and/or charges.

FUEL CLAUSE

Bills are subject to the adjustments provided for in the Fuel Clause Rider.

(Continued on Sheet No. 5-4.2)

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Northern States Power Company, a Minnesota corporation
 Minneapolis, Minnesota 55401

MINNESOTA ELECTRIC RATE BOOK - MPUC NO. 2

**RESIDENTIAL TIME OF USE PILOT PROGRAM
 SERVICE
 RATE CODE A72, A74**

Section No. 5
 2nd Revised Sheet No. 4.1

PILOT PROGRAM DESIGN

This is an experimental rate design for the residential Time of Use Pilot Program to be applied for two years from the effective date of this rate schedule. Participating customers will have received Residential Service without electric space heating prior to the Pilot, and may elect a return to the Residential Service rate schedule following the Pilot.

AVAILABILITY

A maximum of 10,000 customers will be selected to receive service with this rate schedule. The Company will determine pilot participants that receive service through the Hiawatha West, Midtown, or Westgate substations. Pilot participants will not include customers that are on net metering service or have other interconnected distributed generation on their premise, or customers that also receive Energy Controlled (Non-Demand Metered) Service, Residential Electric Vehicle Service, Limited Off-Peak Service, or customers that are medical equipment-dependent. Pilot participants may elect to opt out of participation in this Pilot for a specific premise.

DETERMINATION OF CUSTOMER BILLS

Customer bills shall reflect energy charges (if applicable) based on customer's kWh usage, plus a customer charge (if applicable), plus demand charges (if applicable) based on customer's kW billing demand as defined below. Bills may be subject to a minimum charge based on the monthly customer charge and / or certain monthly or annual demand charges. Bills also include applicable riders, adjustments, surcharges, voltage discounts, and energy credits. Bill Protection may also apply. Details regarding the specific charges applicable to this service and Bill Protection are listed below.

RATE

Customer Charge per Month	
Overhead (A72)	\$8.00
Underground (A74)	\$10.00
Energy Charge per kWh	
June – September	
On-Peak Period	\$0.22576
Mid-Peak Period	\$0.09013
Off-Peak Period	\$0.02784
Other Months	
On-Peak Period	\$0.19266
Mid-Peak Period	\$0.07515
Off-Peak Period	\$0.02784

INTERIM RATE ADJUSTMENT

An 8.92% Interim Rate Surcharge will be applied to rate components specified in the "Interim Rate Surcharge Rider" to service provided beginning January 1, 2022.

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In addition, customer bills under this rate are subject to the following adjustments and/or charges.

FUEL CLAUSE

Bills are subject to the adjustments provided for in the Fuel Clause Rider.

(Continued on Sheet No. 5-4.2)

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Northern States Power Company, a Minnesota corporation
 Minneapolis, Minnesota 55401

MINNESOTA ELECTRIC RATE BOOK - MPUC NO. 2

**RESIDENTIAL TIME OF USE PILOT PROGRAM
 SERVICE (Continued)
 RATE CODE A72, A74**

Section No. 5
 1st Revised Sheet No. 4.2

RESOURCE ADJUSTMENT

Bills are subject to the adjustments provided for in the Conservation Improvement Program Adjustment Rider, the State Energy Policy Rate Rider, the Renewable Development Fund Rider, the Transmission Cost Recovery Rider, the Renewable Energy Standard Rider and the Mercury Cost Recovery Rider.

ENVIRONMENTAL IMPROVEMENT RIDER

Bills are subject to the adjustments provided for in the Environmental Improvement Rider.

MONTHLY MINIMUM CHARGE

Customer Charge.

SURCHARGE

In certain communities, bills are subject to surcharges provided for in a Surcharge Rider.

LOW INCOME ENERGY DISCOUNT RIDER

Bills are subject to the adjustment provided for in the Low Income Energy Discount Rider.

The following are terms and conditions for service under this tariff.

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LATE PAYMENT CHARGE

Any unpaid balance over \$10.00 is subject to a 1.5% late payment charge or \$1.00, whichever is greater, after the date due. The charge may be assessed as provided for in the General Rules and Regulations, Section 3.5.

LOW INCOME ENERGY DISCOUNT

Energy discount is available to qualified low income customers under this schedule subject to the provisions contained in the Low Income Energy Discount Rider.

BILL PROTECTION

Billing charges considered for bill protection will include customer and energy charges, fuel cost charges and if applicable, the Residential Controlled Air Conditioning and Water Heating Rider discounts. Bill protection will be considered only for customers that have been pilot participants at the same residential location for 12 months from the effective date of this rate schedule, based on the first 12 months of participation in the pilot program. Any Pilot program billing charge in excess of 10 percent of the corresponding billing charge that would have been applied had the customer not been a pilot participant will be credited to the customer's account, including any applicable taxes. The bill protection in this paragraph will terminate after the first 12 months of participation in the pilot program.

Customers that have received LIHEAP assistance within the 12 months prior to participation in the pilot program will have bill protection determined monthly for the first 12 months of pilot participation for any billing charges in excess of the corresponding billing charge that would have been applied had the customer not been a pilot participant. This will be determined on a monthly basis for the first 12 months of pilot participation. For the second 12 months of pilot participation, the bill protection will continue to be provided for these LIHEAP assistance customers for billing charges in excess of 10 percent of the corresponding billing charge on an annual basis for the second 12 months of pilot participation. Customers that start to receive LIHEAP assistance after their participation in the pilot has begun will receive monthly bill protection up to the first 12 month anniversary of the pilot, and shall receive annual bill protection for the second 12 month period of the pilot. Customers who opt out or leave the pilot area will forego the annual protection otherwise offered for this second 12 month period.

(Continued on Sheet No. 5-4.3)

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Northern States Power Company, a Minnesota corporation
 Minneapolis, Minnesota 55401

MINNESOTA ELECTRIC RATE BOOK - MPUC NO. 2

**RESIDENTIAL TIME OF USE PILOT PROGRAM
 SERVICE (Continued)
 RATE CODE A72, A74**

Section No. 5
 Original Sheet No. 4.3

DEFINITION OF PEAK PERIODS

The On-Peak period is defined as those hours between 3:00 p.m. and 8:00 p.m. Monday through Friday, except the following holidays: New Year's Day, Good Friday, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, and Christmas Day. When a designated holiday occurs on Saturday, the preceding Friday will be designated a holiday. When a designated holiday occurs on Sunday, the following Monday will be designated a holiday. The Mid-Peak period is defined as all hours not defined as On-Peak or Off-Peak periods. The Off-Peak period is defined as those hours between midnight (12:00 a.m.) and 6:00 a.m. every day.

RESIDENTIAL CONTROLLED AIR CONDITIONING AND WATER HEATING RIDER

Customers that received service with the Residential Controlled Air Conditioning and Water Heating Rider in combination with Residential Service prior to participation in the pilot will have a revised discount for Company controlled central air conditioning or electric water heating that is specific to the pilot program. The controlled air conditioning discount is a monthly \$10 credit applied during the billing months of June through September. The controlled electric water heating discount is a monthly \$2 credit during each billing month. Pilot customers will receive these revised credits in place of percent discounts and are subject to all other terms of the Residential Controlled Air Conditioning and Water Heating Rider.

TERMS AND CONDITIONS OF SERVICE

1. This schedule is also subject to provisions contained in Rules for Application of Residential Rates.

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		President, Northern States Power Company, a Minnesota corporation		
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Northern States Power Company, a Minnesota corporation
 Minneapolis, Minnesota 55401

MINNESOTA ELECTRIC RATE BOOK - MPUC NO. 2

**RESIDENTIAL ELECTRIC VEHICLE SERVICE
 RATE CODE A08**

Section No. 5
 19th Revised Sheet No. 5

AVAILABILITY

Available to residential customers for service only to electric vehicle loads including battery charging and accessory usage. The customer must complete Company-approved documentation verifying possession, through ownership or lease, of an electric vehicle as defined in Section 169.011, subdivision 26a of Minnesota law.

CHARACTER OF SERVICE

Single-phase 60-Hertz service at approximately 120 or 120/240 volts will be provided hereunder. Three-phase service or other service upgrade requests will be provided in accordance with Company service regulations.

RENEWABLE ENERGY SUPPLY OPTION

Customers have the option to elect all or a portion of the supply of electricity under this schedule from renewable energy resources. The renewable energy supply option is available subject to the provisions contained in the Voluntary Renewable and High-Efficiency Energy Purchase (Windsor Program) Rider, or other available rate schedule for voluntary renewable energy supply that is applicable.

DETERMINATION OF CUSTOMER BILLS

Customer bills shall reflect energy charges (if applicable) based on customer's kWh usage, plus a customer charge (if applicable), plus demand charges (if applicable) based on customer's kW billing demand as defined below. Bills may be subject to a minimum charge based on the monthly customer charge and / or certain monthly or annual demand charges. Bills also include applicable riders, adjustments, surcharges, voltage discounts, and energy credits. Details regarding the specific charges applicable to this service are listed below.

RATE

Customer Charge per Month	\$4.95	
On-Peak Period Energy Charge per kWh		
June - September	\$0.20497	R
Other Months	\$0.16508	R
Off-Peak Period Energy Charge per kWh	\$0.04170	R

In addition, customer bills under this rate are subject to the following adjustments and/or charges.

FUEL CLAUSE

Bills are subject to the adjustments provided for in the Fuel Clause Rider.

RESOURCE ADJUSTMENT

Bills are subject to the adjustments provided for in the Conservation Improvement Program Adjustment Rider, the State Energy Policy Rate Rider, the Renewable Development Fund Rider, the Transmission Cost Recovery Rider, the Renewable Energy Standard Rider and the Mercury Cost Recovery Rider.

(Continued on Sheet No. 5-6)

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Northern States Power Company, a Minnesota corporation
 Minneapolis, Minnesota 55401

MINNESOTA ELECTRIC RATE BOOK - MPUC NO. 2

**RESIDENTIAL ELECTRIC VEHICLE SERVICE
 RATE CODE A08**

Section No. 5
 20th Revised Sheet No. 5

AVAILABILITY

Available to residential customers for service only to electric vehicle loads including battery charging and accessory usage. The customer must complete Company-approved documentation verifying possession, through ownership or lease, of an electric vehicle as defined in Section 169.011, subdivision 26a of Minnesota law.

CHARACTER OF SERVICE

Single-phase 60-Hertz service at approximately 120 or 120/240 volts will be provided hereunder. Three-phase service or other service upgrade requests will be provided in accordance with Company service regulations.

RENEWABLE ENERGY SUPPLY OPTION

Customers have the option to elect all or a portion of the supply of electricity under this schedule from renewable energy resources. The renewable energy supply option is available subject to the provisions contained in the Voluntary Renewable and High-Efficiency Energy Purchase (Windsor Program) Rider, or other available rate schedule for voluntary renewable energy supply that is applicable.

DETERMINATION OF CUSTOMER BILLS

Customer bills shall reflect energy charges (if applicable) based on customer's kWh usage, plus a customer charge (if applicable), plus demand charges (if applicable) based on customer's kW billing demand as defined below. Bills may be subject to a minimum charge based on the monthly customer charge and / or certain monthly or annual demand charges. Bills also include applicable riders, adjustments, surcharges, voltage discounts, and energy credits. Details regarding the specific charges applicable to this service are listed below.

RATE

Customer Charge per Month	\$4.95
On-Peak Period Energy Charge per kWh	
June - September	\$0.20497
Other Months	\$0.16508
Off-Peak Period Energy Charge per kWh	\$0.04170

INTERIM RATE ADJUSTMENT

An 8.92% Interim Rate Surcharge will be applied to rate components specified in the "Interim Rate Surcharge Rider" to service provided beginning January 1, 2022.

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In addition, customer bills under this rate are subject to the following adjustments and/or charges.

FUEL CLAUSE

Bills are subject to the adjustments provided for in the Fuel Clause Rider.

RESOURCE ADJUSTMENT

Bills are subject to the adjustments provided for in the Conservation Improvement Program Adjustment Rider, the State Energy Policy Rate Rider, the Renewable Development Fund Rider, the Transmission Cost Recovery Rider, the Renewable Energy Standard Rider and the Mercury Cost Recovery Rider.

(Continued on Sheet No. 5-6)

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Northern States Power Company, a Minnesota corporation
 Minneapolis, Minnesota 55401

MINNESOTA ELECTRIC RATE BOOK - MPUC NO. 2

**RESIDENTIAL ELECTRIC VEHICLE SERVICE
 RATE CODE A08**

Section No. 5
 16th Revised Sheet No. 6

MONTHLY MINIMUM CHARGE

Customer Charge.

SURCHARGE

In certain communities, bills are subject to surcharges provided for in a Surcharge Rider.

LATE PAYMENT CHARGE

Any unpaid balance over \$10.00 is subject to a 1.5% late payment charge or \$1.00, whichever is greater, after the date due. The charge may be assessed as provided for in the General Rules and Regulations, Section 3.5.

DEFINITION OF PEAK PERIODS

The on-peak period is defined as those hours between 9:00 a.m. and 9:00 p.m. Monday through Friday, except the following holidays: New Year's Day, Good Friday, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, and Christmas Day. When a designated holiday occurs on Saturday, the preceding Friday will be designated a holiday. When a designated holiday occurs on Sunday, the following Monday will be designated a holiday. The off-peak period is defined as all other hours. Definition of on-peak and off-peak period is subject to change with change in Company's system operating characteristics.

COMMUNICATION COSTS

The Company will maintain separate accounting of the information, education, advertising and promotion costs associated with electric vehicles as provided in Minn. Stat. §216B.1614, subd.2, paragraph (c) 2 by deferring the costs to a tracker account, and will petition the Minnesota Public Utilities Commission to recover the qualifying costs.

TERMS AND CONDITIONS OF SERVICE

1. Residential Electric Vehicle Service shall be separately served and metered and must at no time be connected to facilities serving customer's other loads. Metering may be installed as a sub-meter behind the customer's main meter, in which case consumption under this rate schedule will be subtracted from the main meter for purposes of billing customer's non-Electric Vehicle electricity usage.
2. The customer shall supply, at no expense to the Company, a suitable location for meters and associated equipment used for billing. Installations must conform to the Company's specifications.
3. Company may require customer to provide access for Company-owned equipment for the recording and wireless communication of energy usage.
4. The rate contemplates that this service will utilize existing facilities with no additional major expenditures. Customer shall reimburse Company for any expenditure for facilities necessary to serve this load which would not otherwise be required to serve customer's load.
5. This schedule is also subject to provisions contained in Rules for Application of Residential Rates.
6. Customers that elect the Windsource program in calendar year 2015 for at least three (3) 100 kWh blocks or their entire usage on this schedule may receive a one-time \$25 bill credit or gift card of the same value.

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Northern States Power Company, a Minnesota corporation
Minneapolis, Minnesota 55401

MINNESOTA ELECTRIC RATE BOOK - MPUC NO. 2

**ELECTRIC VEHICLE HOME SERVICE
RATE CODE A80, A81**

Section No. 5
6th Revised Sheet No. 7

AVAILABILITY

Available to Residential Service customers for service only to electric vehicle loads including battery charging and accessory usage. Bundled service includes Company installed and provided charging equipment. Pre-Pay Option service is available to customers electing to pay Company for the installed cost of charging equipment prior to beginning service with this tariff. Customers electing Pre-Pay Option service are separately invoiced at the time of installation. Installation-Only Service is available for customers who have purchased a compatible EV charger before the launch date of the Electric Vehicle Home Service. The customer must complete Company-approved documentation verifying possession, through ownership or lease, of an electric vehicle as defined in Section 169.011, subdivision 26a of Minnesota law.

N

Enrollment in the Residential Electric Vehicle Pilot Service previously available under these rate codes is no longer available.

CONTRACT

Customers must contract for this service through an Electric Vehicle Home Service/Voluntary Electric Vehicle Charger Service Customer Service Agreement with the Company. The contract period will be as long as the customer wishes to use the equipment.

Customers who initially contracted for the Residential Electric Vehicle Pilot Service through an Electric Vehicle Pilot Electric Service Agreement can still take service under that agreement through the end of the 24-month initial term. At the end of that agreement, the customer can continue service by contracting through the service through an Electric Vehicle Home Service/Voluntary Electric Vehicle Charger Service Customer Service Agreement or terminate their service at no cost to them.

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CHARACTER OF SERVICE

Single-phase 60-Hertz service at approximately 120 or 120/240 volts will be provided hereunder. Three-phase service or other service upgrade requests will be provided in accordance with Company service regulations.

RENEWABLE ENERGY SUPPLY OPTION

Customers have the option to elect all or a portion of the supply of electricity under this schedule from renewable energy resources. The renewable energy supply option is available subject to the provisions contained in the Voluntary Renewable*Connect Pilot Program (Windsources Program) Rider, or other available rate schedule for voluntary renewable energy supply that is applicable.

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DETERMINATION OF CUSTOMER BILLS

Customer bills shall reflect energy charges (if applicable) based on customer's kWh usage, plus a customer charge (if applicable), plus demand charges (if applicable) based on customer's kW billing demand as defined below. Bills may be subject to a minimum charge based on the monthly customer charge and /or certain monthly or annual demand charges. Bills also include applicable riders, adjustments, surcharges, voltage discounts, and energy credits. Details regarding the specific charges applicable to this service are listed below.

(Continued on Sheet No. 5-7.1)

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Docket No.	E002/M-19-559		Order Date:	10-06-20

Northern States Power Company, a Minnesota corporation
 Minneapolis, Minnesota 55401

MINNESOTA ELECTRIC RATE BOOK - MPUC NO. 2

ELECTRIC VEHICLE HOME SERVICE
RATE CODE A80, A81

Section No. 5
 Original Sheet No. 7.1

RATE

Customer Charge per Month		
Bundled (A80)		\$16.48
Pre-Pay Option/Installation Only (A81)		\$6.68
Energy Charge per kWh		
June – September		
On-Peak Period		\$0.22576
Mid-Peak Period		\$0.09013
Off-Peak Period		\$0.02784
Other Months		
On-Peak Period		\$0.19266
Mid-Peak Period		\$0.07515
Off-Peak Period		\$0.02784

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PRE-PAY/INSTALLATION ONLY OPTION

The Pre-Pay/Installation Only Option Customer Charge per Month applies in place of the Bundled Customer Charge per Month to customers that have paid the installed cost of charging equipment to the Company, or who have purchased a compatible EV charger before the launch date of the Electric Vehicle Home Service

Customers choosing the Installation-Only Service are also responsible for a \$240 charge covering the cost of installing and setting up the customer-owned charger for integration with the Company's systems and participation in the program.

In addition, customer bills under this rate are subject to the following adjustments and/or charges.

FUEL CLAUSE

Bills are subject to the adjustments provided for in the Fuel Clause Rider

RESOURCE ADJUSTMENT

Bills are subject to the adjustments provided for in the Conservation Improvement Program Adjustment Rider, the State Energy Policy Rate Rider, the Renewable Development Fund Rider, the Transmission Cost Recovery Rider, the Renewable Energy Standard Rider and the Mercury Cost Recovery Rider.

MONTHLY MINIMUM CHARGE

Customer Charge.

SURCHARGE

In certain communities, bills are subject to surcharges provided for in a Surcharge Rider.

LATE PAYMENT CHARGE

Any unpaid balance over \$10.00 is subject to a 1.5% late payment charge or \$1.00, whichever is greater, after the date due. The charge may be assessed as provided for in the General Rules and Regulations, Section 3.5.

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(Continued on Sheet No. 7.2)

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Northern States Power Company, a Minnesota corporation
 Minneapolis, Minnesota 55401

MINNESOTA ELECTRIC RATE BOOK - MPUC NO. 2

**ELECTRIC VEHICLE HOME SERVICE
 RATE CODE A80, A81**

Section No. 5
 1st Revised Sheet No. 7.1

RATE

Customer Charge per Month	
Bundled (A80)	\$16.48
Pre-Pay Option/Installation Only (A81)	\$6.68
Energy Charge per kWh	
June – September	
On-Peak Period	\$0.22576
Mid-Peak Period	\$0.09013
Off-Peak Period	\$0.02784
Other Months	
On-Peak Period	\$0.19266
Mid-Peak Period	\$0.07515
Off-Peak Period	\$0.02784

PRE-PAY/INSTALLATION ONLY OPTION

The Pre-Pay/Installation Only Option Customer Charge per Month applies in place of the Bundled Customer Charge per Month to customers that have paid the installed cost of charging equipment to the Company, or who have purchased a compatible EV charger before the launch date of the Electric Vehicle Home Service

Customers choosing the Installation-Only Service are also responsible for a \$240 charge covering the cost of installing and setting up the customer-owned charger for integration with the Company’s systems and participation in the program.

INTERIM RATE ADJUSTMENT

An 8.92% Interim Rate Surcharge will be applied to rate components specified in the “Interim Rate Surcharge Rider” to service provided beginning January 1, 2022.

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In addition, customer bills under this rate are subject to the following adjustments and/or charges.

FUEL CLAUSE

Bills are subject to the adjustments provided for in the Fuel Clause Rider

RESOURCE ADJUSTMENT

Bills are subject to the adjustments provided for in the Conservation Improvement Program Adjustment Rider, the State Energy Policy Rate Rider, the Renewable Development Fund Rider, the Transmission Cost Recovery Rider, the Renewable Energy Standard Rider and the Mercury Cost Recovery Rider.

MONTHLY MINIMUM CHARGE

Customer Charge.

SURCHARGE

In certain communities, bills are subject to surcharges provided for in a Surcharge Rider.

LATE PAYMENT CHARGE

Any unpaid balance over \$10.00 is subject to a 1.5% late payment charge or \$1.00, whichever is greater, after the date due. The charge may be assessed as provided for in the General Rules and Regulations, Section 3.5.

(Continued on Sheet No. 7.2)

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		President, Northern States Power Company, a Minnesota Corporation		
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Northern States Power Company, a Minnesota corporation
Minneapolis, Minnesota 55401

MINNESOTA ELECTRIC RATE BOOK - MPUC NO. 2

ELECTRIC VEHICLE HOME SERVICE
RATE CODE A80, A81

Section No. 5
Original Sheet No. 7.2

DEFINITION OF PEAK PERIODS

The on-peak period is defined as those hours between 3:00 p.m. and 8:00 p.m. Monday through Friday, except the following holidays: New Year's Day, Good Friday, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, and Christmas Day. When a designated holiday occurs on Saturday, the preceding Friday will be designated a holiday. When a designated holiday occurs on Sunday, the following Monday will be designated a holiday. The mid-peak period is defined as all hours not defined as on-peak or off-peak periods. The off-peak period is defined as those hours between midnight (12:00 a.m.) and 6:00 a.m. every day. Definition of on-peak and off-peak period is subject to change with change in Company's system operating characteristics.

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COMMUNICATION COSTS

The Company will maintain separate accounting of the information, education, advertising and promotion costs associated with electric vehicles as provided in Minn. Stat. §216B.1614, subd.2, paragraph (c) 2 by deferring the costs to a tracker account, and will petition the Minnesota Public Utilities Commission to recover the qualifying costs.

TERMS AND CONDITIONS OF SERVICE

1. Electric Vehicle Home Service shall be served through wiring connected to customer's single meter provided for Residential Service. Consumption under this rate schedule will be subtracted from the main meter for purposes of billing customer's non-Electric Vehicle electricity usage.
2. The customer shall supply, at no expense to the Company, premises wiring and a suitable location for connection of charging and associated equipment.
3. Company may require customer to provide access for Company-owned equipment for the recording and wireless communication of energy usage.
4. The rate contemplates that this service will utilize existing facilities with no additional major expenditures. Customer shall reimburse Company for any expenditure for facilities necessary to serve this load which would not otherwise be required to serve customer's load.
5. This schedule is also subject to provisions contained in Rules for Application of Residential Rates.
6. Customer must execute an Electric Vehicle Home Service/Voluntary Electric Vehicle Charger Service Customer Service Agreement with the Company.

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Northern States Power Company, a Minnesota corporation
 Minneapolis, Minnesota 55401

MINNESOTA ELECTRIC RATE BOOK - MPUC NO. 2

**VOLUNTARY ELECTRIC VEHICLE CHARGER SERVICE
 RATE CODE A76, A77**

Section No. 5
 5th Revised Sheet No. 8

AVAILABILITY

Available to residential customers taking service under the Residential Time of Day (Rate Codes A02 and A04) to provide electric vehicle charging equipment to serve electric vehicle loads including battery charging and accessory usage. Customers' energy usage will be billed based on their applicable rate codes. Bundled service includes Company installed and provided charging equipment. Pre-Pay Option service is available to customers electing to pay Company for the installed cost of charging equipment prior to beginning service. Customers electing Pre-Pay Option service are separately invoiced at the time of installation. Installation-Only Service is available for customers who have purchased a compatible EV charger before the launch date of the Voluntary Electric Vehicle Charger Service. The customer must complete Company-approved documentation verifying possession, through ownership or lease, of an electric vehicle as defined in Section 169.011, subdivision 26a of Minnesota law.

CONTRACT

Customers must contract for this service through an Electric Vehicle Home Service/Voluntary Electric Vehicle Charger Service Customer Service Agreement with the Company. The contract period will be as long as the customer wishes to use the equipment

CHARACTER OF SERVICE

Single-phase 60-Hertz service at approximately 120 or 120/240 volts will be provided hereunder. Three-phase service or other service upgrade requests will be provided in accordance with Company service regulations.

COST OF SERVICE

Customer Charge per Month	
Bundled (A76)	\$12.09
Pre-Pay/Installation Only Option (A77)	\$2.30

PRE-PAY/INSTALLATION-ONLY OPTION

The Pre-Pay/Installation Only Option Customer Charge per Month applies in place of the Bundled Customer Charge per Month to customers that have paid the installed cost of charging equipment to the Company, or who have purchased a compatible EV charger before the launch date of the Electric Vehicle Home Service. Customers choosing the Installation-Only Service are also responsible for a \$240 charge covering the cost of installing and setting up the customer-owned charger for integration with the Company's systems and participation in the program.

COMMUNICATION COSTS

The Company will maintain separate accounting of the information, education, advertising and promotion costs associated with electric vehicles as provided in Minn. Stat. §216B.1614, subd.2, paragraph (c) 2 by deferring the costs to a tracker account, and will petition the Minnesota Public Utilities Commission to recover the qualifying costs.

TERMS AND CONDITIONS OF SERVICE

1. Voluntary Electric Vehicle Charger Service shall be serviced through wiring connected to customer's single meter provided for Residential Service.
2. The customer shall supply, at no expense to the Company, premises wiring and a suitable location for connection of charging and associated equipment.
3. The rate contemplates that this service will utilize existing facilities with no additional major expenditures. Customer shall reimburse Company for any expenditure for facilities necessary to serve this load which would not otherwise be required to serve customer's load.
4. This schedule is also subject to provisions contained in Rules for Application of Residential Rates.
5. Customer must execute an Electric Vehicle Home Service Customer Service Agreement with the Company.

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Northern States Power Company, a Minnesota corporation
 Minneapolis, Minnesota 55401

MINNESOTA ELECTRIC RATE BOOK - MPUC NO. 2

**RESIDENTIAL ELECTRIC VEHICLE SUBSCRIPTION
 PILOT SERVICE
 RATE CODE A82, A83**

Section No. 5
 Original Sheet No. 8.1

AVAILABILITY

Available while this Pilot Service is in effect to Residential Service customers for service only to electric vehicle loads including battery charging and accessory usage. Bundled service includes Company installed and provided charging equipment. Pre-Pay Option service is available to customers electing to pay Company for the installed cost of charging equipment prior to beginning service with this tariff. Customers electing Pre-Pay Option service are separately invoiced at the time of installation. The customer must complete Company-approved documentation verifying possession, through ownership or lease, of an electric vehicle as defined in Section 169.011, subdivision 26a of Minnesota law.

CONTRACT

Customers must contract for this service through an Electric Vehicle Subscription Pilot Electric Service Agreement with the Company. The initial contract period will normally be for 24 months. Contract allows customers to participate with only one electric vehicle.

CHARACTER OF SERVICE

Single-phase 60-Hertz service at approximately 120 or 120/240 volts will be provided hereunder. Three-phase service or other service upgrade requests will be provided in accordance with Company service regulations.

RENEWABLE ENERGY SUPPLY OPTION

Customers have the option to elect all or a portion of the supply of electricity under this schedule from renewable energy resources. The renewable energy supply option is available subject to the provisions contained in the Voluntary Renewable and High-Efficiency Energy Purchase (Windsor Program) Rider, or other available rate schedule for voluntary renewable energy supply that is applicable.

DETERMINATION OF CUSTOMER BILLS

Customer bills shall reflect energy charges (if applicable) based on customer's Expected Average Electric Vehicle kWh Usage, plus a customer charge (if applicable), plus demand charges (if applicable) based on customer's kW billing demand as defined below. Bills may be subject to a minimum charge based on the monthly customer charge and /or certain monthly or annual demand charges. Bills also include applicable riders, adjustments, surcharges, voltage discounts, and energy credits. Details regarding the specific charges applicable to this service are listed below.

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(Continued on Sheet No. 5-8.2)

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Northern States Power Company, a Minnesota corporation
 Minneapolis, Minnesota 55401

MINNESOTA ELECTRIC RATE BOOK - MPUC NO. 2

**RESIDENTIAL ELECTRIC VEHICLE SUBSCRIPTION
 PILOT SERVICE (Continued)
 RATE CODE A82, A83**

Section No. 5
 2nd Revised Sheet No. 8.2

RATE

Customer Charge per Month

<u>General System Energy</u>	
Bundled (A82)	\$42.50
Pre-Pay Option (A83)	\$32.65
<u>Renewable Energy (Windsorce)</u>	
Bundled (A82)	\$45.02
Pre-Pay Option (A83)	\$35.17

Excess On-Peak Period Energy Charge per kWh	
June - September	\$0.20497
Other Months	\$0.16508

PRE-PAY OPTION

The Pre-Pay Option Customer Charge per Month applies in place of the Bundled Customer Charge per Month to customers that have paid the installed cost of charging equipment to the Company.

In addition, customer bills under this rate are subject to the following adjustments and/or charges.

FUEL CLAUSE

The monthly customer charge includes preset fuel charges for established energy usage during off-peak and on-peak periods. Excess on-peak period energy charges are subject to the adjustments provided for in the Fuel Clause Rider.

RESOURCE ADJUSTMENT

The monthly customer charge includes a preset Resource Adjustment charge for established energy usage during off-peak and on-peak periods. Excess on-peak period energy charges are subject to the adjustments provided for in the Conservation Improvement Program Adjustment Rider, the State Energy Policy Rate Rider, the Renewable Development Fund Rider, the Transmission Cost Recovery Rider, the Renewable Energy Standard Rider and the Mercury Cost Recovery Rider.

MONTHLY MINIMUM CHARGE

Customer Charge.

SURCHARGE

In certain communities, bills are subject to surcharges provided for in a Surcharge Rider.

LATE PAYMENT CHARGE

Any unpaid balance over \$10.00 is subject to a 1.5% late payment charge or \$1.00, whichever is greater, after the date due. The charge may be assessed as provided for in the General Rules and Regulations, Section 3.5.

(Continued on Sheet No. 5-8.3)

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Northern States Power Company, a Minnesota corporation
 Minneapolis, Minnesota 55401

MINNESOTA ELECTRIC RATE BOOK - MPUC NO. 2

**RESIDENTIAL ELECTRIC VEHICLE SUBSCRIPTION
 PILOT SERVICE (Continued)
 RATE CODE A82, A83**

Section No. 5
 3rd Revised Sheet No. 8.2

RATE

Customer Charge per Month

General System Energy

Bundled (A82)	\$42.50
Pre-Pay Option (A83)	\$32.65

Renewable Energy (Windsorce)

Bundled (A82)	\$45.02
Pre-Pay Option (A83)	\$35.17

Excess On-Peak Period Energy Charge per kWh

June - September	\$0.20497
Other Months	\$0.16508

PRE-PAY OPTION

The Pre-Pay Option Customer Charge per Month applies in place of the Bundled Customer Charge per Month to customers that have paid the installed cost of charging equipment to the Company.

INTERIM RATE ADJUSTMENT

An 8.92% Interim Rate Surcharge will be applied to rate components specified in the "Interim Rate Surcharge Rider" to service provided beginning January 1, 2022.

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In addition, customer bills under this rate are subject to the following adjustments and/or charges.

FUEL CLAUSE

The monthly customer charge includes preset fuel charges for established energy usage during off-peak and on-peak periods. Excess on-peak period energy charges are subject to the adjustments provided for in the Fuel Clause Rider.

RESOURCE ADJUSTMENT

The monthly customer charge includes a preset Resource Adjustment charge for established energy usage during off-peak and on-peak periods. Excess on-peak period energy charges are subject to the adjustments provided for in the Conservation Improvement Program Adjustment Rider, the State Energy Policy Rate Rider, the Renewable Development Fund Rider, the Transmission Cost Recovery Rider, the Renewable Energy Standard Rider and the Mercury Cost Recovery Rider.

MONTHLY MINIMUM CHARGE

Customer Charge.

SURCHARGE

In certain communities, bills are subject to surcharges provided for in a Surcharge Rider.

LATE PAYMENT CHARGE

Any unpaid balance over \$10.00 is subject to a 1.5% late payment charge or \$1.00, whichever is greater, after the date due. The charge may be assessed as provided for in the General Rules and Regulations, Section 3.5.

(Continued on Sheet No. 5-8.3)

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Northern States Power Company, a Minnesota corporation
 Minneapolis, Minnesota 55401

MINNESOTA ELECTRIC RATE BOOK - MPUC NO. 2

**RESIDENTIAL ELECTRIC VEHICLE SUBSCRIPTION
 PILOT SERVICE (Continued)
 RATE CODE A82, A83**

Section No. 5
 Original Sheet No. 8.3

DEFINITION OF PEAK PERIODS

The on-peak period is defined as those hours between 9:00 a.m. and 9:00 p.m. Monday through Friday, except the following holidays: New Year's Day, Good Friday, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, and Christmas Day. When a designated holiday occurs on Saturday, the preceding Friday will be designated a holiday. When a designated holiday occurs on Sunday, the following Monday will be designated a holiday. The off-peak period is defined as all other hours. Definition of on-peak and off-peak period is subject to change with change in Company's system operating characteristics.

DEFINITION OF EXPECTED AVERAGE ELECTRIC VEHICLE KWH USAGE

The expected average electric vehicle kWh usage is defined as the Company's estimated average monthly EV energy consumption across all pilot participants.

COMMUNICATION COSTS

The Company will maintain separate accounting of the information, education, advertising and promotion costs associated with electric vehicles as provided in Minn. Stat. §216B.1614, subd.2, paragraph (c) 2 by deferring the costs to a tracker account, and will petition the Minnesota Public Utilities Commission to recover the qualifying costs.

TERMS AND CONDITIONS OF SERVICE

1. Residential Electric Vehicle Subscription Pilot Service shall be served through wiring connected to customer's single meter provided for Residential Service. Consumption under this rate schedule will be subtracted from the main meter for purposes of billing customer's non-Electric Vehicle electricity usage.
2. The customer shall supply, at no expense to the Company, premises wiring and a suitable location for connection of charging and associated equipment.
3. Company may require customer to provide access for Company-owned equipment for the recording and wireless communication of energy usage.
4. The rate contemplates that this service will utilize existing facilities with no additional major expenditures. Customer shall reimburse Company for any expenditure for facilities necessary to serve this load which would not otherwise be required to serve customer's load.
5. This schedule is also subject to provisions contained in Rules for Application of Residential Rates.
6. Customer must execute an Electric Vehicle Subscription Pilot Service Agreement with the Company.

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Northern States Power Company, a Minnesota corporation
 Minneapolis, Minnesota 55401

MINNESOTA ELECTRIC RATE BOOK - MPUC NO. 2

**ENERGY CONTROLLED SERVICE
 (NON-DEMAND METERED)
 RATE CODE A05**

Section No. 5
 30th Revised Sheet No. 9

AVAILABILITY

Available to residential and commercial customers with permanently connected interruptible loads of up to 50 kW that would be under Company control. The types of loads served would include dual fuel space heating, water heating, and other loads subject to Company approval.

DETERMINATION OF CUSTOMER BILLS

Customer bills shall reflect energy charges (if applicable) based on customer's kWh usage, plus a customer charge (if applicable), plus demand charges (if applicable) based on customer's kW billing demand as defined below. Bills may be subject to a minimum charge based on the monthly customer charge and / or certain monthly or annual demand charges. Bills also include applicable riders, adjustments, surcharges, voltage discounts, and energy credits. Details regarding the specific charges applicable to this service are listed below.

RATE

	Residential	Commercial & Industrial	
Customer Charge	\$4.95	\$4.95	
Energy Charge per kWh	\$0.04487	\$0.04487	R
Optional			
June - September	\$0.10301	\$0.09256	R
Other Months	\$0.04487	\$0.04487	R

OPTIONAL ENERGY CHARGE

This option is available to customers with heat pump installations for non-interruptible service during June through September billing months.

In addition, customer bills under this rate are subject to the following adjustments and/or charges.

FUEL CLAUSE

Bills are subject to the adjustments provided for in the Fuel Clause Rider.

RESOURCE ADJUSTMENT

Bills are subject to the adjustments provided for in the Conservation Improvement Program Adjustment Rider, the State Energy Policy Rate Rider, the Renewable Development Fund Rider, the Transmission Cost Recovery Rider, the Renewable Energy Standard Rider and the Mercury Cost Recovery Rider.

ENVIRONMENTAL IMPROVEMENT RIDER

Bills are subject to the adjustments provided for in the Environmental Improvement Rider.

(Continued on Sheet No. 5-10)

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Northern States Power Company, a Minnesota corporation
 Minneapolis, Minnesota 55401

MINNESOTA ELECTRIC RATE BOOK - MPUC NO. 2

**ENERGY CONTROLLED SERVICE
 (NON-DEMAND METERED)
 RATE CODE A05**

Section No. 5
 31st Revised Sheet No. 9

AVAILABILITY

Available to residential and commercial customers with permanently connected interruptible loads of up to 50 kW that would be under Company control. The types of loads served would include dual fuel space heating, water heating, and other loads subject to Company approval.

DETERMINATION OF CUSTOMER BILLS

Customer bills shall reflect energy charges (if applicable) based on customer's kWh usage, plus a customer charge (if applicable), plus demand charges (if applicable) based on customer's kW billing demand as defined below. Bills may be subject to a minimum charge based on the monthly customer charge and / or certain monthly or annual demand charges. Bills also include applicable riders, adjustments, surcharges, voltage discounts, and energy credits. Details regarding the specific charges applicable to this service are listed below.

RATE

	Residential	Commercial & Industrial
Customer Charge	\$4.95	\$4.95
Energy Charge per kWh	\$0.04487	\$0.04487
Optional		
June - September	\$0.10301	\$0.09256
Other Months	\$0.04487	\$0.04487

OPTIONAL ENERGY CHARGE

This option is available to customers with heat pump installations for non-interruptible service during June through September billing months.

INTERIM RATE ADJUSTMENT

An 8.92% Interim Rate Surcharge will be applied to Residential rate components and a 13.52% Interim Rate Surcharge will be applied to Commercial rate components specified in the "Interim Rate Surcharge Rider" to service provided beginning January 1, 2022.

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In addition, customer bills under this rate are subject to the following adjustments and/or charges.

FUEL CLAUSE

Bills are subject to the adjustments provided for in the Fuel Clause Rider.

RESOURCE ADJUSTMENT

Bills are subject to the adjustments provided for in the Conservation Improvement Program Adjustment Rider, the State Energy Policy Rate Rider, the Renewable Development Fund Rider, the Transmission Cost Recovery Rider, the Renewable Energy Standard Rider and the Mercury Cost Recovery Rider.

ENVIRONMENTAL IMPROVEMENT RIDER

Bills are subject to the adjustments provided for in the Environmental Improvement Rider.

(Continued on Sheet No. 5-10)

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Northern States Power Company, a Minnesota corporation
 Minneapolis, Minnesota 55401

MINNESOTA ELECTRIC RATE BOOK - MPUC NO. 2

ENERGY CONTROLLED SERVICE (NON-DEMAND METERED)
(Continued)
RATE CODE A05

Section No. 5
 9th Revised Sheet No. 10

MONTHLY MINIMUM CHARGE

Customer Charge.

SURCHARGE

In certain communities, bills are subject to surcharges provided for in a Surcharge Rider.

The following are terms and conditions for service under this tariff.

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LATE PAYMENT CHARGE

Any unpaid balance over \$10.00 is subject to a 1.5% late payment charge or \$1.00, whichever is greater, after the date due. The charge may be assessed as provided for in the General Rules and Regulations, Section 3.5.

TERMS AND CONDITIONS OF SERVICE

1. The controllable load shall be permanently wired, separately served and metered, and at no time connected to facilities serving customer's firm load.
2. The duration and frequency of interruptions shall be at the discretion of Company. Interruption will normally occur at such times:
 - a. When Company is required to use generation equipment or to purchase power that results in production costs in excess of \$70 per MWh,
 - b. When Company expects to establish an annual system peak demand, or
 - c. At such times when, in Company's opinion, the reliability of the system is endangered.
3. Customer selecting Energy Controlled Service (Non-Demand Metered) must have a Company approved electric space heating system and must remain on this service for a minimum term of one year.
4. Customer selecting Energy Controlled Service (Non-Demand Metered) must be prepared for interruptions that will last longer than 12 hours per occurrence. Company shall not be liable for any loss or damage caused by or resulting from any interruption of service.
5. Electricity must be the primary source of energy for dual fuel space heating installations. Customer must have available alternative energy sources capable of supplying up to 30% of the annual heating needs during any heating season.
6. Customer's water heating system served under this rate must be designed and sized to be capable of providing customer's hot water needs for the full duration of the potential interruption periods.

(Continued on Sheet No. 5-10.1)

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