

Montana-Dakota Utilities Co.  
 Electric Utility  
 Transmission Cost Recovery Rider  
 Summary of Revenue and Expenses Allocated to South Dakota  
 Projected 2020

	January	February	March	April	May	June	July	August	September	October	November	December	Total
Facility Sharing Agreement	\$20,333	\$20,333	\$20,333	\$20,333	\$20,333	\$20,333	\$20,333	\$20,333	\$20,333	\$20,333	\$20,333	\$20,337	\$244,000
<b>MISO</b>													
Revenue/Credits													
Schedule 1	9,032	9,032	9,032	9,032	9,032	9,032	9,032	9,032	9,032	9,032	9,032	9,026	108,378
Schedule 2	25,059	25,059	25,059	25,059	25,059	25,059	25,059	25,059	25,059	25,059	25,059	25,064	300,713
Schedule 7	87,715	87,715	87,715	87,715	87,715	87,715	87,715	87,715	87,715	87,715	87,715	87,714	1,052,579
Schedule 8	2,163	2,163	2,163	2,163	2,163	2,163	2,163	2,163	2,163	2,163	2,163	2,157	25,950
Schedule 9	322,875	322,875	322,875	322,875	322,875	322,875	322,875	322,875	322,875	322,875	322,875	322,870	3,874,495
NITS Cust Rev Req	(55,540)	(55,540)	(55,540)	(55,540)	(55,540)	(55,540)	(55,540)	(55,540)	(55,540)	(55,540)	(55,540)	(55,537)	(666,477)
Schedule 24	64,865	64,865	64,865	64,865	64,865	64,865	64,865	64,865	64,865	64,865	64,865	64,861	778,376
Schedule 26	86,192	86,192	86,192	86,192	86,192	86,192	86,192	86,192	86,192	86,192	86,192	86,191	1,034,303
	542,361	542,361	542,361	542,361	542,361	542,361	542,361	542,361	542,361	542,361	542,361	542,346	6,508,317
<b>Charges</b>													
Schedule 10													
Energy	48,255	48,255	48,255	48,255	48,255	48,255	48,255	48,255	48,255	48,255	48,255	48,256	579,061
Demand	3,515	3,515	3,515	3,515	3,515	3,515	3,515	3,515	3,515	3,515	3,515	3,518	42,183
FERC	18,321	18,321	18,321	18,321	18,321	18,321	18,321	18,321	18,321	18,321	18,321	18,319	219,850
	70,091	70,091	70,091	70,091	70,091	70,091	70,091	70,091	70,091	70,091	70,091	70,093	841,094
Schedule 26	209,818	209,818	209,818	209,818	209,818	209,818	209,818	209,818	209,818	209,818	209,818	209,813	2,517,811
Schedule 26A	551,402	517,818	485,654	439,486	426,821	432,560	511,360	478,973	452,377	437,946	498,161	563,905	5,796,463
	831,311	797,727	765,563	719,395	706,730	712,469	791,269	758,882	732,286	717,855	778,070	843,811	9,155,368

Montana-Dakota Utilities Co.  
Electric Utility  
Transmission Cost Recovery Rider  
Summary of Revenue and Expenses Allocated to South Dakota  
Projected 2020

	January	February	March	April	May	June	July	August	September	October	November	December	Total
SPP													
Revenue/Credits													
Facility Credits	698,866	698,866	698,866	698,866	698,866	698,866	698,866	698,866	698,866	698,866	698,866	698,861	8,386,387
Charges													
Schedule 1	55,546	55,546	55,546	55,546	55,546	55,546	55,546	55,546	55,546	55,546	55,546	55,545	666,551
Schedule 1a	83,000	83,000	83,000	83,000	83,000	83,000	83,000	83,000	83,000	83,000	83,000	83,000	996,000
Schedule 9	1,393,862	1,393,862	1,393,862	1,393,862	1,393,862	1,393,862	1,393,862	1,393,862	1,393,862	1,393,862	1,393,862	1,393,864	16,726,346
Schedule 11	137,069	137,069	137,069	137,069	137,069	137,069	137,069	137,069	137,069	137,069	137,069	137,070	1,644,829
Schedule 12	18,573	18,573	18,573	18,573	18,573	18,573	18,573	18,573	18,573	18,573	18,573	18,572	222,875
	1,688,050	1,688,050	1,688,050	1,688,050	1,688,050	1,688,050	1,688,050	1,688,050	1,688,050	1,688,050	1,688,050	1,688,051	20,256,601
Total Company Revenue/Credits													
Facility Sharing	20,333	20,333	20,333	20,333	20,333	20,333	20,333	20,333	20,333	20,333	20,333	20,337	244,000
MISO	542,361	542,361	542,361	542,361	542,361	542,361	542,361	542,361	542,361	542,361	542,361	542,346	6,508,317
SPP	698,866	698,866	698,866	698,866	698,866	698,866	698,866	698,866	698,866	698,866	698,866	698,861	8,386,387
	1,261,560	1,261,560	1,261,560	1,261,560	1,261,560	1,261,560	1,261,560	1,261,560	1,261,560	1,261,560	1,261,560	1,261,544	15,138,704
Allocated to SD 1/	63,644	63,644	63,644	63,644	63,644	63,644	63,644	63,644	63,644	63,644	63,644	63,643	763,727
Transmission in Base 2/	12,066	11,968	10,351	8,971	10,763	6,930	9,023	7,997	7,288	7,649	15,144	16,547	124,697
	51,578	51,676	53,293	54,673	52,881	56,714	54,621	55,647	56,356	55,995	48,500	47,096	639,030
Total Company Charges													
MISO	831,311	797,727	765,563	719,395	706,730	712,469	791,269	758,882	732,286	717,855	778,070	843,811	9,155,368
SPP	1,688,050	1,688,050	1,688,050	1,688,050	1,688,050	1,688,050	1,688,050	1,688,050	1,688,050	1,688,050	1,688,050	1,688,051	20,256,601
	2,519,361	2,485,777	2,453,613	2,407,445	2,394,780	2,400,519	2,479,319	2,446,932	2,420,336	2,405,905	2,466,120	2,531,862	29,411,969
Allocated to SD 1/	127,099	125,404	123,782	121,453	120,814	121,103	125,079	123,445	122,103	121,375	124,413	127,729	1,483,799
SD PUC Assessment	194	194	194	194	194	194	194	194	194	194	194	191	2,325
Net SD Expense	\$75,715	\$73,922	\$70,683	\$66,974	\$68,127	\$64,583	\$70,652	\$67,992	\$65,941	\$65,574	\$76,107	\$80,824	\$847,094

1/ Allocated to SD on Factor 15 Integrated System 12 Month Peak Demand:

5.044876%

2/ Transmission revenue included in base rates. Docket EL15-024, Statement Workpapers, Statement I, Page I-8.

**Montana-Dakota Utilities Co.  
Electric Utility  
MISO Revenue Schedules 1, 2, 7, 8, and 24  
Projected 2020**

	<u>Schedule 1 1/</u>	<u>Schedule 2 2/</u>	<u>Schedule 7 2/</u>	<u>Schedule 8 2/</u>	<u>Schedule 24 2/</u>
January	\$9,032	\$25,059	\$87,715	\$2,163	\$64,865
February	9,032	25,059	87,715	2,163	64,865
March	9,032	25,059	87,715	2,163	64,865
April	9,032	25,059	87,715	2,163	64,865
May	9,032	25,059	87,715	2,163	64,865
June	9,032	25,059	87,715	2,163	64,865
July	9,032	25,059	87,715	2,163	64,865
August	9,032	25,059	87,715	2,163	64,865
September	9,032	25,059	87,715	2,163	64,865
October	9,032	25,059	87,715	2,163	64,865
November	9,032	25,059	87,715	2,163	64,865
December	9,026	25,064	87,714	2,157	64,861
	<u>\$108,378</u>	<u>\$300,713</u>	<u>\$1,052,579</u>	<u>\$25,950</u>	<u>\$778,376</u>

1/ Three year average.

2/ Twelve months ended December 31, 2019.

**Montana-Dakota Utilities Co.  
Electric Utility  
MISO Schedule 9 Revenue, BEPC Payments & Credits and  
Facility Sharing Agreement Revenue  
Projected 2020**

	<u>MISO Sch 9 Revenue 1/</u>	<u>Payments to Basin 2/</u>	<u>Basin Facility Sharing Agreements 3/</u>
January	\$322,875	(\$55,540)	\$20,333
February	322,875	(55,540)	20,333
March	322,875	(55,540)	20,333
April	322,875	(55,540)	20,333
May	322,875	(55,540)	20,333
June	322,875	(55,540)	20,333
July	322,875	(55,540)	20,333
August	322,875	(55,540)	20,333
September	322,875	(55,540)	20,333
October	322,875	(55,540)	20,333
November	322,875	(55,540)	20,333
December	322,870	(55,537)	20,337
	<u>\$3,874,495</u>	<u>(\$666,477)</u>	<u>\$244,000</u>

1/ Twelve months ended December 31, 2019 \$3,874,495

2/ NITS Customer Revenue Requirements included in Projected  
2020 Attachment O as of January 2020.

3/ Annual Facility Sharing Agreement revenue of \$244,000

Montana-Dakota Utilities Co.  
Electric Utility  
MISO Schedule 10 Expenses  
Projected 2020

	Schedule 10 1/			
	<u>MISO - Energy</u>	<u>MISO - Demand</u>	<u>FERC - Direct</u>	<u>Total MDU</u>
January	\$48,255	\$3,515	\$18,321	\$70,091
February	48,255	3,515	18,321	70,091
March	48,255	3,515	18,321	70,091
April	48,255	3,515	18,321	70,091
May	48,255	3,515	18,321	70,091
June	48,255	3,515	18,321	70,091
July	48,255	3,515	18,321	70,091
August	48,255	3,515	18,321	70,091
September	48,255	3,515	18,321	70,091
October	48,255	3,515	18,321	70,091
November	48,255	3,515	18,321	70,091
December	48,256	3,518	18,319	70,093
	<u>\$579,061</u>	<u>\$42,183</u>	<u>\$219,850</u>	<u>\$841,094</u>

1/ Twelve months ended December 31, 2019.

**Montana-Dakota Utilities Co.  
Electric Utility  
MISO Schedule 26 Expense  
Projected 2020**

	<u>Charges 1/</u>	<u>Revenue 2/</u>
January	\$209,818	\$86,192
February	209,818	86,192
March	209,818	86,192
April	209,818	86,192
May	209,818	86,192
June	209,818	86,192
July	209,818	86,192
August	209,818	86,192
September	209,818	86,192
October	209,818	86,192
November	209,818	86,192
December	209,813	86,191
Total	<u><u>\$2,517,811</u></u>	<u><u>\$1,034,303</u></u>

1/ Schedule 26 indicative costs posted by MISO as of July 23, 2019:  
\$2,517,811

2/ Montana-Dakota's projected 2020 revenue requirement for its MTEP  
project 1355 (Heskett Substation) recovered under Schedule 26  
\$1,034,303

**Montana-Dakota Utilities Co.  
Electric Utility  
MISO Schedule 26A Expenses  
Projected 2020**

	BSSE MVP Project		All Other MVP Projects		Total Schedule 26A Expense
	Revenue Requirement 1/	Integrated System Retail Revenue Requirement 2/	Integrated Requirements MWh 3/	Total MVP Charges (excl. BSSE Retail Rev. Req.) 4/	
January	\$1,087,751	\$8,049	324,354	\$543,353	\$551,402
February	1,087,751	8,049	304,599	509,769	517,818
March	1,087,751	8,049	285,679	477,605	485,654
April	1,087,751	8,049	258,521	431,437	439,486
May	1,087,751	8,049	251,071	418,772	426,821
June	1,087,751	8,049	254,447	424,511	432,560
July	1,087,751	8,049	300,800	503,311	511,360
August	1,087,751	8,049	281,749	470,924	478,973
September	1,087,751	8,049	266,104	444,328	452,377
October	1,087,751	8,049	257,615	429,897	437,946
November	1,087,751	8,049	293,036	490,112	498,161
December	1,087,747	8,049	331,709	555,856	563,905
<b>Total</b>	<b>\$13,053,008</b>	<b>\$96,588</b>	<b>3,409,684</b>	<b>\$5,699,875</b>	<b>\$5,796,463</b>

1/ Montana-Dakota's Projected 2020 Revenue Requirement (Attachment MM) for the BSSE MVP projected to be recovered under Schedule 26A \$13,053,008

2/ Montana-Dakota's estimated retail portion of its BSSE project based on Montana-Dakota's load ratio share in the MISO footprint 0.74% 5/

3/ 2020 Electric Load Forecast

4/ MISO's Indicative Annual MVP Charges for Approved MVPs as of July 30, 2019: \$1.70

5/ Montana-Dakota's total MVP charges including the BSSE project.

MDU Projected 2020 MWh Withdrawals - 7/30/19 update	3,339,155
Total MISO MWh Withdrawals	449,418,356
Montana-Dakota's load share in MISO footprint	0.74%

Montana-Dakota Utilities Co.  
Electric Utility  
SPP Revenue and Expenses  
Projected 2020

	SPP Sch 1 1/	SPP Sch 1a 1/	Sch 9 NITS 1/	Sch 11 NITS 1/	Sch 9 Fac. Credit 2/	SPP Sch 12 1/
January	\$55,546	\$83,000	\$1,393,862	\$137,069	(\$698,866)	\$18,573
February	55,546	83,000	1,393,862	137,069	(698,866)	18,573
March	55,546	83,000	1,393,862	137,069	(698,866)	18,573
April	55,546	83,000	1,393,862	137,069	(698,866)	18,573
May	55,546	83,000	1,393,862	137,069	(698,866)	18,573
June	55,546	83,000	1,393,862	137,069	(698,866)	18,573
July	55,546	83,000	1,393,862	137,069	(698,866)	18,573
August	55,546	83,000	1,393,862	137,069	(698,866)	18,573
September	55,546	83,000	1,393,862	137,069	(698,866)	18,573
October	55,546	83,000	1,393,862	137,069	(698,866)	18,573
November	55,546	83,000	1,393,862	137,069	(698,866)	18,573
December	55,545	83,000	1,393,864	137,070	(698,861)	18,572
	<u>\$666,551</u>	<u>\$996,000</u>	<u>\$16,726,346</u>	<u>\$1,644,829</u>	<u>(\$8,386,387)</u>	<u>\$222,875</u>

1/ Twelve months ended December 31, 2019.

2/ SPP Section 30.9 Facility Credits for 2020



## Summary of MISO and SPP Revenues, Credits, and Charges

### Revenue or Credits Received by Montana-Dakota

Facility Sharing Agreement:	Revenue received from Basin Electric Power Cooperative (BEPC) for the use of Montana-Dakota's facilities to serve BEPC member cooperative loads
MISO Schedule 1:	Revenue received for Montana-Dakota's scheduling and administration of moving power through MISO
MISO Schedule 2:	Revenue received for Montana-Dakota's maintenance of voltage on the system
MISO Schedule 7:	Revenue received by Montana-Dakota for Firm Point to Point Transmission Service
MISO Schedule 8:	Revenue received by Montana-Dakota for Non-Firm Point to Point Transmission Service
MISO Schedule 9:	Revenue received by Montana-Dakota for Network Integration Transmission Service (NITS). This revenue is then offset to reflect the revenue requirements of BEPC member cooperatives received by Montana-Dakota from MISO for transmission service in Montana-Dakota's pricing zone that are in turn paid to BEPC.
MISO Schedule 24:	Revenue received by Montana-Dakota as a Load Balancing Authority which it receives for services provided to others in MISO.
MISO Schedule 26:	<p>Reflects Montana-Dakota's projected 2019 MISO Attachment GG revenue requirement for MISO Transmission Expansion Plan (MTEP) project 1355 (Heskett Substation). The Heskett Substation was deemed a baseline reliability projected under MISO's 2009 MTEP.</p> <p>Montana-Dakota does not include the projected revenue for MISO Schedules 37 and 38 as MISO does not provide a separate forecast for those revenues. The revenues received under these schedules represent Montana-Dakota's share of the Schedule 26 cost allocation assigned to former MISO transmission owners that have withdrawn from MISO but have an obligation to pay for MISO Schedule 26 projects due to their prior MISO membership. The actual revenues received by</p>

	<p>Montana-Dakota for MISO Schedules 37 and 38 are identified as such and therefore are included separately in Attachment D.</p>
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**Expenses Paid by Montana-Dakota**

<p>MISO Schedule 10:</p>	<p>Charges paid by Montana-Dakota for MISO Schedule 10 charges and direct FERC assessments. As transmission providers, both MISO, on behalf of Montana-Dakota, and Montana-Dakota are assessed annual charges by the FERC in accordance with FERC regulations.</p>
<p>MISO Schedule 26:</p>	<p>Reflects MISO's 2019 and 2020 indicative charges for Pricing Zone for Approved Baseline Reliability Projects, Generation Interconnection Projects, and Market Efficiency Projects. The Schedule 26 charges reflect Montana-Dakota's share of costs for projects that qualify for regional cost allocation under the MISO tariff.</p>
<p>MISO Schedule 26A:</p>	<p>Reflect Montana-Dakota's forecasted load at the indicative charge with Montana-Dakota's share of the Big Stone South to Ellendale (BSSE) retail revenue requirement stated separately. Montana-Dakota's share of the BSSE retail revenue requirement reflects the estimated retail portion of the BSSE project using Montana-Dakota's load share within the MISO footprint and the Company's projected MISO Attachment MM revenue requirement for MTEP Project 2220 (BSSE MVP Project). The BSSE MVP project is one of seventeen MVPs approved by MISO as part of the MTEP 2011 report. Schedule 26A is charged equally to all MISO load for recovery of MISO's MVP portfolio.</p>
<p>SPP Schedule 1:</p>	<p>Charges paid by Montana-Dakota to SPP for the scheduling and administration of power through SPP.</p>
<p>SPP Schedule 1a:</p>	<p>Charges paid by Montana-Dakota to SPP for SPP's administration of the market and transmission system.</p>
<p>SPP Schedule 9:</p>	<p>Charges paid by Montana-Dakota for Network Integration Transmission Service. Also reflected are the payments (SPP Section 30.9 Facility Credits) made for SPP's use of Montana-Dakota's transmission facilities.</p>

SPP Schedule 11:	Charges paid by Montana-Dakota associated with Highway Byway cost allocated network upgrades. A network customer's firm network transmission charge is a combination of Schedules 9 and 11.
SPP Schedule 12:	The FERC assessments to SPP associated with Montana-Dakota's loads on the SPP system, similar to MISO's Schedule 10 charges.