

UNION ELECTRIC COMPANY

ELECTRIC SERVICE

MO.P.S.C. SCHEDULE NO. 6

5th Revised

SHEET NO. 90

CANCELLING MO.P.S.C. SCHEDULE NO. 6

4th Revised

SHEET NO. 90

APPLYING TO MISSOURI SERVICE AREA

***THIS SHEET RESERVED FOR FUTURE USE**

*Indicates Change.

DATE OF ISSUE November 22, 2019 DATE EFFECTIVE January 21, 2020

ISSUED BY Michael Moehn President St. Louis, Missouri
NAME OF OFFICER TITLE ADDRESS

UNION ELECTRIC COMPANY

ELECTRIC SERVICE

MO.P.S.C. SCHEDULE NO. 6

3rd Revised

SHEET NO. 90.1

CANCELLING MO.P.S.C. SCHEDULE NO. 6

2nd Revised

SHEET NO. 90.1

APPLYING TO

MISSOURI SERVICE AREA

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President
TITLE

St. Louis, Missouri
ADDRESS

UNION ELECTRIC COMPANY

ELECTRIC SERVICE

MO.P.S.C. SCHEDULE NO. 6

2nd Revised

SHEET NO. 90.2

CANCELLING MO.P.S.C. SCHEDULE NO. 6

1st Revised

SHEET NO. 90.2

APPLYING TO _____

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MO.P.S.C. SCHEDULE NO. 6

2nd Revised

SHEET NO. 90.3

CANCELLING MO.P.S.C. SCHEDULE NO. 6

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SHEET NO. 90.3

APPLYING TO

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UNION ELECTRIC COMPANY

ELECTRIC SERVICE

MO.P.S.C. SCHEDULE NO. 6

3rd Revised

SHEET NO. 90.4

CANCELLING MO.P.S.C. SCHEDULE NO. 6

2nd Revised

SHEET NO. 90.4

APPLYING TO

MISSOURI SERVICE AREA

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President
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St. Louis, Missouri
ADDRESS

RIDER EEIC
ENERGY EFFICIENCY INVESTMENT CHARGE (Cont'd.)
For MEEIA Cycle 2 Plan

APPLICABILITY (Cont'd.)

- 1) Program Costs, Company's Throughput Disincentive ((TD) and Earnings Opportunity (EO) Award (if any) for each Effective Period (EP)
- 2) Reconciliations, with interest, to true-up for differences between the revenues billed under this Rider EEIC and total actual monthly amounts for:
 - i) Program Costs incurred in the MEEIA 2016-18 Plan, including those related to Long-Lead Projects, and/or remaining unrecovered Program balances for MEEIA 2013-15,
 - ii) Company's TD incurred in the MEEIA 2016-18 Plan, including those related to Long-Lead Projects, and/or remaining TD-NSB Share balances for MEEIA 2013-15,
 - iii) Amortization of Earnings Opportunity ordered by the Missouri Public Service Commission (Commission), including those related to Long-Lead Projects, and/or remaining balances for the MEEIA 2013-15 Performance Incentive.
- 3) Any Ordered Adjustments.

Charges under this Rider EEIC shall continue after the anticipated February 28, 2019 end of MEEIA 2016-18 Plan until such time as the charges described in items 1), 2), and 3) above have been billed.

Charges arising from the MEEIA 2016-18 Plan that are the subject of this Rider EEIC shall be reflected in one "Energy Efficiency Invest Chg" on customers' bills in combination with any charges arising from a rider that is applicable to the MEEIA 2013-15 Plan demand-side management programs.

DEFINITIONS

As used in this Rider EEIC, the following definitions shall apply:

"AFUDC" means the Allowance for Funds Used During Construction rate computed in accordance with the formula prescribed in the Code of Federal Regulations Title 18 Part 101.

"Company's Throughput Disincentive" (TD) means to represent the utility's lost margins associated with the successful implementation of MEEIA programs. The detailed method for calculating the TD is described in Tariff Sheets 91.6 - 91.8.

"Earnings Opportunity" (EO) means the amount ordered by the Commission based on actual performance verified through Evaluation Measurement & Verification (EM&V) against planned targets. The details of determining EO are described herein.

* "Effective Period" (EP) means the twelve (12) months beginning with February and ending with January. Where an additional Rider EEIC filing is made to change the EEIR components during a calendar year, the EP for such a filing shall begin with the month of June or October and end the subsequent January.

"End Use Category" means the unique summary category of end-use load shapes. The list of End Use Categories is included in Appendix E to the Stipulation.

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UNION ELECTRIC COMPANY

ELECTRIC SERVICE

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CANCELLING MO.P.S.C. SCHEDULE NO. 6 Original SHEET NO. 91.10

APPLYING TO MISSOURI SERVICE AREA

RIDER EEIC

ENERGY EFFICIENCY INVESTMENT CHARGE (Cont'd.)

For MEEIA Cycle 2 Plan

***FILING**

The Company shall make a Rider EEIC filing each calendar year to be effective for application to the usage on and after the first day of the subsequent February. The Company is allowed or may be ordered by the Commission to make one other Rider EEIC filing in each calendar year with such subsequent filing to be effective the first day of June or October. Rider EEIC filings shall be made at least sixty (60) days prior to their effective dates.

PRUDENCE REVIEWS

A prudence review shall be conducted no less frequently than at twenty-four (24) month intervals in accordance with 20 CSR 4240-20.093(10). Any costs which are determined by the Commission to have been imprudently incurred or incurred in violation of the terms of this Rider EEIC shall be addressed through an adjustment in the next EEIR determination and reflected in factor OA herein.

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UNION ELECTRIC COMPANY

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CANCELLING MO.P.S.C. SCHEDULE NO. 6 5th Revised SHEET NO. 91.11

APPLYING TO MISSOURI SERVICE AREA

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APPLYING TO MISSOURI SERVICE AREA

RIDER EEIC
ENERGY EFFICIENCY INVESTMENT CHARGE (Cont'd.)
For MEEIA 2019-21 Plan

APPLICABILITY (Cont'd.)

- 1) Program Costs, Company's Throughput Disincentive (TD) and Earnings Opportunity Award (if any) for each Effective Period (EP).
- 2) Reconciliations, with interest, to true-up for differences between the revenues billed under this Rider EEIC and total actual monthly amounts for:
 - i) Program Costs incurred in the MEEIA 2019-21 Plan and/or remaining unrecovered Program Cost balances for MEEIA 2016-18;
 - ii) Company's TD incurred in the MEEIA 2019-21 Plan and/or remaining unrecovered TD balances for MEEIA 2016-18;
 - iii) Amortization of Earnings Opportunity Award ordered by the Missouri Public Service Commission (Commission) for the MEEIA 2019-21 Plan and/or remaining unrecovered EO balances for MEEIA 2016-18.
- 3) Any Ordered Adjustments.

Charges under this Rider EEIC shall continue after the anticipated December 31, 2021 end of the non-low-income portions of the MEEIA 2019-21 Plan and after December 31, 2024 for the low-income portion of the MEEIA 2019-21 Plan until such time as the charges described in items 1), 2), and 3) above have been billed. Any programs and/or balance associated with the low-income portions of the MEEIA 2019-21 Plan may be rolled into the recovery mechanism for an approved MEEIA program that commences in 2022.

Charges arising from the MEEIA 2019-21 Plan that are the subject of this Rider EEIC shall be reflected in one "Energy Efficiency Invest Chg" on customers' bills in combination with any charges arising from a rider that is applicable to previous MEEIA plans.

DEFINITIONS

As used in this Rider EEIC, the following definitions shall apply:

"Deemed Savings Table" means a list of Measures derived from the Company's TRM that characterizes associated gross energy and demand savings with Company-specific Measure parameters where available, as outlined in Appendix F to the MEEIA 2019-21 Plan and updated as provided for herein based on EM&V *ex-post* gross adjustments.

"Earnings Opportunity Award" (EO) means the dollar amount calculated for each Program Year by the EO Calculator as described in the Earnings Opportunity Award Determination section below.

* "Effective Period" (EP) means the months for which an approved EEIR is to be effective, i. e., the twelve (12) months beginning with February and ending with January unless there is an additional Rider EEIC filing made to change the Energy Efficiency Investment Rate components during a calendar year, the EP for such a filing shall begin with the either June or October and end with the subsequent January.

"End Use Category" means the unique summary category of end-use load shapes. The list of End Use Categories is included in Appendix G to the MEEIA 2019-21 Plan.

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RIDER EEIC

ENERGY EFFICIENCY INVESTMENT CHARGE (Cont'd.)

For MEEIA 2019-21 Plan

TD DETERMINATION (Cont'd.)

The Company shall file an update to NMR rates by month by Service Classification and by end-use category contemporaneous with filing any compliance tariff sheets in any general electric rate case reflecting the rates set in that case, and the billing determinants used in setting rates in such case. Updates to the NMR values shall be calculated following the same process described in the Marginal Rate Analysis section of the MEEIA 2019-21 Plan.

NTGF = Net-To-Gross Factor. For each Program Year, all TD calculations will assume a NTGF of 0.85 until such time as a NTGF is determined through EM&V for that Program Year. Thereafter, for each given Program Year, the NTGF determined through EM&V will be used prospectively starting with the month in which the Earnings Opportunity Award is determined.

Annual kWh savings per Measure will be updated prospectively in the Company's TRM and Deemed Savings Table.

EARNINGS OPPORTUNITY AWARD DETERMINATION

An Earnings Opportunity Award shall be calculated for each Program Year using the EO Calculator submitted with the MEEIA 2019-21 Plan as Appendix N. The Earnings Opportunity Award will not go below zero dollars (\$0). If Commission-approved new programs are added to the Program, the Company may seek Commission approval to have the targets and the cap of the Earnings Opportunity Award adjusted. For each Program Year the Earnings Opportunity Award shall be adjusted for the difference, with carrying cost at the Company's monthly short-term interest rate, between TD revenues billed resulting from the application of the EEIR and what those revenues would have been if:

- (1) The ME used in the calculation were the normalized savings for each Measure at customer meter per Measure determined through EM&V *ex-post* gross analysis for each Program Year, and
- (2) The NTGF used in the calculation was the net-to-gross values determined through EM&V.

*FILING

The Company shall make a Rider EEIC filing each calendar year to be effective for application to the usage on and after the first date of the subsequent February. The Company is allowed or may be ordered by the Commission to make one other Rider EEIC filing in each calendar year with such subsequent filing to be effective the first day of June or October. Rider EEIC filings shall be made at least 60 days prior to their effective dates.

PRUDENCE REVIEWS

A prudence review shall be conducted no less frequently than at 24-month intervals in accordance with 20 CSR 4240-20.093(11). Any costs which are determined by the Commission to have been imprudently incurred or incurred in violation of the terms of this Rider EEIC shall be addressed through an adjustment in the next EEIR determination and reflected in factor OA herein.

*Indicates Change.

UNION ELECTRIC COMPANY

ELECTRIC SERVICE

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CANCELLING MO.P.S.C. SCHEDULE NO. 6 1st Revised SHEET NO. 91.22

APPLYING TO MISSOURI SERVICE AREA

RIDER EEIC

ENERGY EFFICIENCY INVESTMENT CHARGE (Cont'd.)

* (Applicable To Service Provided Beginning June 2019 through January 31, 2020)

MEEIA 2013-15 EEIR Components (Applicable to MEEIA Cycle 1 Plan)

Service Class	NPC/PE (\$/kWh)	NTD/PE (\$/kWh)	NPI/PE (\$/kWh)	NOA/PE (\$/kWh)
1(M)-Residential Service	\$0.000000	\$0.000000	\$0.000039	\$0.000000
2(M)-Small General Service	\$0.000000	\$0.000000	\$0.000055	\$0.000000
3(M)-Large General Service	\$0.000000	\$0.000000	\$0.000112	\$0.000000
4(M)-Small Primary Service	\$0.000000	\$0.000000	\$0.000094	\$0.000000
11(M)-Large Primary Service	\$0.000000	\$0.000000	\$0.000185	\$0.000000
12(M)-Large Transmission Service	\$0.000000	\$0.000000	\$0.000000	\$0.000000

MEEIA 2016-18 EEIR Components (Applicable to MEEIA Cycle 2 Plan)

Service Class	NPC/PE (\$/kWh)	NTD/PE (\$/kWh)	NEO/PE (\$/kWh)	NOA/PE (\$/kWh)
1(M)-Residential Service	(\$0.000614)	\$0.001109	\$0.000000	\$0.000005
2(M)-Small General Service	\$0.000580	\$0.002301	\$0.000000	(\$0.000002)
3(M)-Large General Service	\$0.000584	\$0.001802	\$0.000000	(\$0.000002)
4(M)-Small Primary Service	\$0.000598	\$0.001492	\$0.000000	(\$0.000002)
11(M)-Large Primary Service	\$0.000687	\$0.000648	\$0.000000	(\$0.000002)
12(M)-Large Transmission Service	\$0.000000	\$0.000000	\$0.000000	\$0.000000

MEEIA 2019-21 EEIR Components (Applicable to MEEIA Cycle 3 Plan)

Service Class	NPC/PE (\$/kWh)	NTD/PE (\$/kWh)	NEO/PE (\$/kWh)	NOA/PE (\$/kWh)
1(M)-Residential Service	\$0.003679	\$0.000357	\$0.000000	\$0.000000
2(M)-Small General Service	\$0.002247	\$0.000239	\$0.000000	\$0.000000
3(M)-Large General Service	\$0.002247	\$0.000181	\$0.000000	\$0.000000
4(M)-Small Primary Service	\$0.002247	\$0.000179	\$0.000000	\$0.000000
11(M)-Large Primary Service	\$0.002247	\$0.000065	\$0.000000	\$0.000000
12(M)-Large Transmission Service	\$0.000000	\$0.000000	\$0.000000	\$0.000000

Summary EEIR Components and Total EEIR

Service Class	NPC (\$/kWh)	NTD (\$/kWh)	(NEO+NPI) (\$/kWh)	NOA (\$/kWh)	Total EEIR (\$/kWh)
1(M)-Residential Service	\$0.003065	\$0.001466	\$0.000039	\$0.000005	\$0.004575
2(M)-Small General Service	\$0.002827	\$0.002540	\$0.000055	(\$0.000002)	\$0.005420
3(M)-Large General Service	\$0.002831	\$0.001983	\$0.000112	(\$0.000002)	\$0.004924
4(M)-Small Primary Service	\$0.002845	\$0.001671	\$0.000094	(\$0.000002)	\$0.004608
11(M)-Large Primary Service	\$0.002934	\$0.000713	\$0.000185	(\$0.000002)	\$0.003830
12(M)-Large Transmission Service	\$0.000000	\$0.000000	\$0.000000	\$0.000000	\$0.000000

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APPLYING TO MISSOURI SERVICE AREA

RIDER EEIC

ENERGY EFFICIENCY INVESTMENT CHARGE (Cont'd.)

(Applicable To Service Provided Beginning February 1, 2020 through January 31, 2021)

MEEIA 2016-18 EEIR Components (Applicable to MEEIA Cycle 2 Plan)

Service Class	NPC/PE (\$/kWh)	NTD/PE (\$/kWh)	NEO/PE (\$/kWh)	NOA/PE (\$/kWh)
1(M)-Residential Service	\$0.000126	\$0.000112	\$0.000829	\$0.000000
2(M)-Small General Service	\$0.000112	\$0.000377	\$0.000812	\$0.000000
3(M)-Large General Service	\$0.000043	\$0.000552	\$0.000840	\$0.000000
4(M)-Small Primary Service	(\$0.000006)	\$0.000558	\$0.000869	\$0.000000
11(M)-Large Primary Service	(\$0.000182)	\$0.000486	\$0.001003	\$0.000000
12(M)-Large Transmission Service	\$0.000000	\$0.000000	\$0.000000	\$0.000000

MEEIA 2019-21 EEIR Components (Applicable to MEEIA Cycle 3 Plan)

Service Class	NPC/PE (\$/kWh)	NTD/PE (\$/kWh)	NEO/PE (\$/kWh)	NOA/PE (\$/kWh)
1(M)-Residential Service	\$0.002501	\$0.000389	\$0.000000	\$0.000000
2(M)-Small General Service	\$0.002225	\$0.000279	\$0.000000	\$0.000000
3(M)-Large General Service	\$0.002226	\$0.000181	\$0.000000	\$0.000000
4(M)-Small Primary Service	\$0.002249	\$0.000174	\$0.000000	\$0.000000
11(M)-Large Primary Service	\$0.002314	\$0.000237	\$0.000000	\$0.000000
12(M)-Large Transmission Service	\$0.000000	\$0.000000	\$0.000000	\$0.000000

Summary EEIR Components and Total EEIR

Service Class	NPC (\$/kWh)	NTD (\$/kWh)	(NEO+NPI) (\$/kWh)	NOA (\$/kWh)	Total EEIR (\$/kWh)
1(M)-Residential Service	\$0.002627	\$0.000501	\$0.000829	\$0.000000	\$0.003957
2(M)-Small General Service	\$0.002337	\$0.000656	\$0.000812	\$0.000000	\$0.003805
3(M)-Large General Service	\$0.002269	\$0.000733	\$0.000840	\$0.000000	\$0.003842
4(M)-Small Primary Service	\$0.002243	\$0.000732	\$0.000869	\$0.000000	\$0.003844
11(M)-Large Primary Service	\$0.002132	\$0.000723	\$0.001003	\$0.000000	\$0.003858
12(M)-Large Transmission Service	\$0.000000	\$0.000000	\$0.000000	\$0.000000	\$0.000000

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