We Energies 2024 Storm Hardening OH to UG Projects

System Priority	Project ID	Project Name	Project Description (5a)	Project Needs	Project Delays (5d)	Design % Complete (5c)	Construction % Complete (5c)	Anticipated Construction Start (5f)	Anticipated Construction End (5f)	Planning Cost Estimate (5g)	Costs incurred as of 7/31/2023 (5h)	Impacts Disadvantaged Community (5i)	# of Cust Impacted (5e)	Outages/ yr/mi	# of times on PSC 2020-2022	% of Poles older than 50 years
Deferred from 2023	**WSS23001**	County Line x2751 OH to UG Conversion	Remove 6.9 miles of overhead conductors, install 8.3 miles of direct buried cable, install 80 padmounted transformers rebuild 0.5 miles of overhead conductors, install 6 overhead transformers	County Line x2751 (24% of feeder) TFP (2022, 2019, 2017, 2016) PSC (2019) PSC complaint area 1.14 outage/mile/year 19 hr outage duration County Line x2771 (40% of feeder) TFP (2016) PSC (2016) Elm Grove x24661 (8% of feeder) TFP (2022, 2016) PSC (2022) Next phase towards County Line Transformer reduction	N/A	75%	0%	1/8/2024	8/30/2024	$ 4,194,851	$ 361,576	No	576	1.1	2	46%
Deferred from 2023	**NOS23001**	Knellsville X22461 Norport Dr to Hales OH to UG	Remove 3.1 miles of overhead conductors, install 6.0 miles of direct buried cable, install 57 padmounted transformers	TFP 2015, 2016 30% of outages on this feeder from 2018-2021 in the project area 89.5% (17/19 from 2018-2021) of Outages in this area were attributable to tree growth, fallen limbs or wildlife contact with OH Removes inaccessible overhead facilities in forested area	N/A	0%	0%	1/1/2024	12/31/2024	$ 3,019,512	$ -	No	294	1.5	0	72%
Deferred from 2023	**SOS23002**	East Troy X16851 S Shore Drive Conversion	Remove 1.3 miles of overhead conductors, install 1.7 miles of direct buried cable, install 31 padmounted transformers, rebuild 1.9 miles of overhead conductors, install 13 overhead transformers	Forestry issues and vegetation outages from old OH Measured low voltage	N/A	95%	0%	12/1/2023	4/30/2024	$ 1,881,793	$ 219,487	No	114	1.2	0	26%
Deferred from 2023	**WSS23003**	Elm Grove x24661 OH to UG Conversion	Remove 4.7 miles of overhead conductors, install 7.2 miles of direct buried cable, install 77 padmounted transformers, rebuild 1.7 miles of overhead conductors, install 18 overhead transformers	Elm Grove x24661 (74% of feeder) TFP (2022, 2016) PSC (2022) Brookfield Square x12851 (16% of feeder) TFP (2022, 2016) PSC (2016) 2.11 outage/mile/year 7 hr outage duration Next phase towards Elm Grove SS retirement	N/A	50%	0%	9/9/2024	4/25/2025	$ 3,931,494	$ 276,991	No	448	2.1	1	45%
Deferred from 2023	**FVS23002**	City Limits CLS83 Valley Rd	Remove 4.2 miles of overhead conductors, install 4.8 miles of direct buried cable, install 111 padmounted transformers, rebuild 1.1 miles of overhead conductors	Move mainline into road R/W from back lot line. 90% of poles are 1980s or older. 6 outages in last 3 years. Affects CLS83 and CLS82 CLS83 on TFP 2020, 2015 CLS82 on TFP 2020, 2018	N/A	100%	0%	4/1/2024	12/31/2024	$ 1,508,216	$ 521,420	Yes	443	0.4	0	90%

Deferred from 2023	**WSS23004**	Chenequa x72451 OH to UG Rebuild	Remove 2.0 miles of overhead conductors, install 2.4 miles of direct buried cable, install 41 padmounted transformers	Chenequa x72451 (12.5% of feeder) TFP 3x, PSC 1x 12% of customers on feeder 1.25 outage/mile/year 14 hr outage duration 2 miles of OH removed, 1mile of #6cu Addresses bridging phase mismatch	N/A	0%	0%	9/9/2024	12/31/2024	$ 1,340,022	$ -	No	140	1.3	1	28%
Deferred from 2023	**NOS23003**	Marcy x32351 OH to UG Rebuild	Remove 2.6 miles of overhead conductors, install 3.2 miles of direct buried cable, install 38 padmounted transformers	Marcy x32351 (15% of feeder) TFP (2022, 2021, 2020) PSC (2022, 2021, 2020) PSC complaint area (34% of customers on feeder) 1.52 Outages/yr/mile 7.4 Outage duration	N/A	50%	0%	1/8/2024	8/30/2024	$ 1,632,610	$ 37,755	No	232	1.5	3	46%
Deferred from 2023	**NOS23004**	EL X60681 Elkhart Lake Dr OH to UG	Remove 0.9 miles of overhead conductors, install 0.8 miles of direct buried cable, install 16 padmounted transformers	4 outages caused by vegetation or equipment in the last three years for an outage rate of 1.6 outages/yr/mi Renew the area by eliminating 0.3 miles of small copper conductor	N/A	15%	0%	1/1/2024	6/30/2024	$ 433,842	$ 46,280	No	57	1.6	0	53%
Deferred from 2023	**FVS23003**	RDF52 Cutoff Lane Rebuild	Remove 0.8 miles of overhead conductors, install 1.4 miles of direct buried cable, install 25 padmounted transformers	Private Rd with small private bridge - not line truck accessible - 14 Customers downstream of bridge Existing pole line runs along canal edge and in swamp	N/A	90%	0%	1/1/2024	4/1/2024	$ 1,089,277	$ 34,934	No	94	0.1	0	0%
1	**FVS24001**	Ellington R5570 Cr-S OH to UG	Remove 5 miles of overhead conductors, install 4.9 miles of direct buried cable, install 1 switchgear, rebuild 3 miles of overhead conductors, install 1 overhead transformer	Provides an alternate source for Ellington 34.5kV and reduces exposure on Apple Hills R5840. Provides a stable alternate source to Lawn Road R5780 (TFP 2022) Continuation of Apple Hills resiliency work	N/A	60%	0%	1/1/2024	10/31/2024	$ 3,796,794	$ 19,344	No	5714	0.2	0	52%
2	**SOS24001**	Pennsylvania Z8443 & Z8445 Double Circuit OH to UG	Remove 1 mile of overhead conductors, install 3.2 miles of direct buried cable, install 1 switchgear	Non-standard double vertical circuit construction Removes 1.0 miles of double circuit Average pole age of 54 years, 30 poles 60-69 years	N/A	0%	0%	1/1/2024	12/31/2024	$ 1,580,450	$ -	Yes (Z8443)	4097	0.0	1	89%
3	**WSS24001**	Wirth Park x18651 OH to UG Rebuild	Remove 1.8 miles of overhead conductors, install 2.1 miles of direct buried cable, install 22 padmounted transformers	PSC complaint Outage Review: * 3.75 outages/yr/mile * 4 hr average not counting MJ or EE	N/A	0%	0%	4/15/2024	8/30/2024	$ 974,818	$ 319	No	204	3.8	0	72%
4	**SOS24002**	Albers Z3145 Feeder Exit OH to UG	Remove 2.4 miles of overhead conductors, install 2.4 miles of direct buried cable, rebuild 0.3 miles of overhead conductors, install 1 overhead transformer	Parallel CU double horizontal circuit construction with some 8kV underbuild Removes 2.6 miles of double and triple circuit Average pole age of 56 years	N/A	1%	0%	3/1/2024	8/31/2024	$ 1,380,206	$ -	No	2855	0.0	0	73%

5	**IRS24001**	SBH62 WI-139 Long Lake OH to UG Conversion	Remove 4.3 miles of overhead conductors, install 4.6 miles of direct buried cable, install 1 padmounted transformer, install 2 fused pad switchgear and 3 junction boxes	TFP (2017, 2018, 2020, 2021,2023) PSC(2018,2020,2021,2023) First Section: 19 Sustained Outages since 2019 totalling 2,031,463 CustOutMinutes (441 CMI) 8 EE Sustained Outages since 2019 totalling 1,528,506 CMI (Avg 675 min/outage) 91% of pole > 40yrs (all 1973), 19% > 50yrs Second Section: 4 Sustained Outages since 2019 totalling 1,617,454 CustOutMinutes (708 CMI) 2 EE Sustained Outages since 2019 totalling 1,233,930 CustOutMin (1,114 CMI) 92% of pole > 40yrs, 92% > 50yrs	N/A	5%	0%	1/1/2024	12/31/2024	$ 1,430,955	$ 1,180	No	720	1.3	2	58%
6	**FVS24002**	Neenah 35kV O2U reroute	Remove 0.7 miles of overhead conductors, install 2.2 miles of direct buried cable, install 6 switchgear	UG loop - removes cross country along RR tracks to primary rate customers Total of 32MVA of load; 25% of poles> 60 yrs; 33% of poles >50 yrs; 67% >40	N/A	5%	0%	1/1/2024	12/31/2024	$ 1,902,219	$ 98	Yes	7	0.1	0	33%
7	**WSS24002**	Gebhardt x27953 OH to UG Rebuild (Bonnie Ln tap)	Remove 0.7 miles of overhead conductors, install 1.2 miles of direct buried cable, install 15 padmounted transformers	Outage Review: * 3.7 outages/yr/mile * 4 hr average	N/A	0%	0%	4/15/2024	8/30/2024	$ 521,875	$ -	No	45	3.7	0	58%
8	**FVS24003**	Vine VIN51 Center Valley Rd OH to UG	Remove 1.1 miles of overhead conductors, install 1.6 miles of direct buried cable, install 13 padmounted transformers, install 1 single phase VFI and 1 junction box, rebuild 0.2 miles of overhead conductors	Provides a UG loop to radial tap (TFP 2023, 2021,2020) PSC (2023, 2021,2020) 51% of pole >50yrs, 67% >40yrs	N/A	20%	0%	5/1/2024	7/1/2024	$ 366,352	$ 2,564	No	101	0.9	1	51%
9	**NOS24001**	Sussex z5491 & z5486 OH to UG (Wooded Hills)	Remove 3.8 miles of overhead conductors, install 4.7 miles of direct buried cable, install 53 padmounted transformers	Sussex z5491: TFP (2023, 2022, 2019, 2016, 2015, 2014) PSC (2023, 2022, 2019, 2015) Sussex z5486: TFP (2023, 2022, 2017, 2015) PSC (2015) PSC complaint area 2.16 Outages/yr/mile 8 hour outage duration	N/A	0%	0%	1/1/2024	12/31/2024	$ 1,857,524	$ -	No	261	2.2	1	52%