

Interconnection Queue Update

September 2011



SYSTEM IMPACT STUDIES POSTED AUGUST 1, 2010 – AUGUST 1, 2011

Note: In some cases projects have received multiple study reports as the result of re-tools

Queue Number	Fuel Type	MWC	MWE
Q90	Natural Gas	650	650
V2-018	Solar	7.6	20
V2-046	Solar	7	19.9
V3-036	Natural Gas	0	5.5
V4-009	Solar	3.8	10
V4-023	Solar	7.6	20
V4-024	Solar	7.6	20
V4-025	Solar	7.6	20
V4-029	Solar	7.6	20
V4-036	Solar	7.6	20
V4-037	Solar	3.8	10
V4-041	Solar	7.6	20
V4-042	Solar	7.6	20
V4-043	Solar	3.04	8
V4-054	Solar	7.6	20
V4-062	Solar	1.14	3
V4-063	Solar	7.6	20
V4-067	Solar	0.98	2.6
W1-021	Solar	7.6	20
W1-022	Solar	7.6	20
W1-023	Solar	7.6	20
W1-048	Solar	1.9	5
W1-060	Solar	7.6	20
W1-066	Solar	3.4	9
W1-068	Solar	7.6	20
W1-071	Solar	0	1.04
W1-081	Solar	1.9	5
W1-084	Solar	1.9	5
W1-085	Solar	7.6	20

Queue Number	Fuel Type	MWC	MWE
W1-086	Solar	7.6	20
W1-087	Solar	7.6	20
W1-088	Solar	7.6	20
W1-089	Solar	6.8	18
W1-090	Solar	6.8	18
W1-092	Solar	3.3	8.7
W1-093	Solar	7.6	20
W1-094	Solar	3.8	10
W1-095	Solar	7.02	18
W1-096	Solar	2.7	7
W1-097	Solar	0	2
W1-117	Solar	7.6	20
W1-118	Solar	7.6	20
W1-130	Solar	3.8	10
W2-026	Solar	0	1.5
W2-030	Solar	3.8	10
W2-035	Solar	6	16
W2-047	Solar	3.61	9.5
W2-101	Solar	7.6	20
W3-009	Solar	3.8	10
W3-033	Methane	7.5	7.5
W3-034	Methane	7.5	7.5
W3-058	Solar	3.8	10
W3-073	Solar	0	2
W3-075	Solar	7.6	20
W3-089	Solar	7.6	20
W3-101	Solar	1.21	3.2
W3-103	Solar	1.9	5
W3-104	Solar	1.9	5

Queue Number	Fuel Type	MWC	MWE
W3-163	Solar	7.6	20
W3-164	Solar	7.6	20
W3-165	Solar	7.6	20
W4-089	Solar	0	1.6
W4-090	Solar	0	1.34

Queue Number	Fuel Type	MWC	MWE
R97	Coal	20	20
T126	Wind	40	200
U2-041	Wind	39	300
U3-002	Wind	26	200
U4-028	Wind	13	100
U4-029	Wind	13	100
U4-038	Wind	13	100
V3-028	Solar	7.6	20
V4-010	Wind	26	200
V4-015	Wind	8.6	66.6
V4-016	Wind	26	200
V4-033	Wind	39	299.2
V4-055	Solar	4.18	11
V4-059	Biomass	20	20
W2-001	Wind	8.6	66.6
W3-010	Methane	0	0.34
W3-063	Methane	0	0.85
W3-162	Natural Gas	20	20

Queue Number	Fuel Type	MWC	MWE
U2-073	Wind	26	200
U3-017	Coal	0	4
V4-014	Methane	0	6.5
V4-072	Methane	4.8	4.8
W1-080	Hydro	9.9	9.9
W1-116	Solar	5.32	14
W2-053	Solar	7.6	20
W2-054	Solar	7.6	20
W2-057	Storage	0	32
W2-069	Solar	3.8	10
W2-095	Solar	3.8	10



BGE

Queue Number	Fuel Type	MWC	MWE
V3-037	Natural Gas	3.2	3.2
V4-038	Methane	1	1



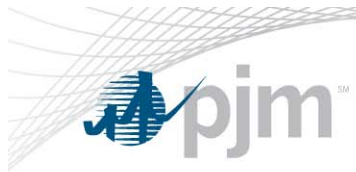
ComEd

Queue Number	Fuel Type	MWC	MWE
Q68	Coal	726	726
R16	Wind	25.2	126
R30	Wind	100	500
R78	Wind	60.1	300.3
S62	Wind	100	500



Dayton

Queue Number	Fuel Type	MWC	MWE
W2-040	Solar	7.6	20



Duquesne

Queue Number	Fuel Type	MWC	MWE
U3-029	Nuclear	37	48
U3-030	Nuclear	38	43

Queue Number	Fuel Type	MWC	MWE
Q65	Nuclear	1570	1594
V2-030	Natural Gas	875	950
V4-018	Natural Gas	415	475
V4-068	Solar	3.23	5
W1-029	Wind	39	300
W1-057	Solar	7.6	20
W1-077	Methane	4	4
W2-009	Natural Gas	8	18
W2-022	Wind	9.57	73.6
W2-049	Biomass	47.4	47.4
W3-002	Methane	6.4	6.4
W3-019	Wind	19.5	150
W3-043	Wind	65	500
W3-047	Natural Gas	60	39
W3-050	Solar	7.6	20
W3-054	Wind	19.5	150
W3-066	Wind	39	300
X1-084	Biomass	60	60

Queue Number	Fuel Type	MWC	MWE
V4-039	Solar	3.4	9
W1-003	Solar	7.6	20
W1-004	Solar	7.6	20
W1-005	Solar	7.6	20
W1-006	Solar	7.6	20
W1-062	Natural Gas	53	53
W1-070	Solar	7.6	20
W1-131	Solar	1.9	5
W2-099	Solar	7.6	20
W3-071	Solar	4.77	12.54
W3-086	Solar	3.8	10
W3-160	Solar	3.8	10

Queue Number	Fuel Type	MWC	MWE
W1-024	Solar	1.5	4
W1-032	Solar	1.14	3
W1-055	Solar	3.8	10
W1-065	Solar	0.756	1.99
W1-076	Solar	3.8	10
W1-113	Solar	3.04	8
W1-124	Solar	6.4	16.9
W1-126	Solar	3.8	10
W1-127	Solar	1.9	5
W1-128	Solar	7.6	20
W1-129	Solar	1.9	5
W2-016	Solar	5.7	15
W2-019	Solar	2.3	6
W2-050	Solar	0	10
W2-061	Solar	1.1	3
W2-064	Solar	3.8	10
W2-074	Solar	0	1
W2-076	Solar	0.8	2
W2-078	Solar	3.4	9
W2-080	Solar	0.8	2
W2-082	Solar	6.5	17
W2-083	Solar	6.5	17
W2-084	Solar	3.8	10
W2-085	Solar	3.8	10
W2-086	Solar	3.8	10
W2-088	Solar	6.5	17
W2-089	Solar	6.46	17
W2-091	Solar	0	10
W3-001	Solar	3.04	8

Queue Number	Fuel Type	MWC	MWE
W3-003	Solar	0	10
W3-025	Solar	0	2.06
W3-029	Solar	6.46	17
W3-032	Solar	3	8
W3-044	Solar	7.6	20
W3-076	Solar	6.4	17
W3-077	Solar	5.7	15
W3-078	Solar	4.94	13
W3-079	Solar	5.3	14
W3-081	Solar	4.18	11
W3-095	Solar	5.7	15
W3-107	Solar	3.8	10
W3-108	Solar	0.38	1
W3-120	Solar	6.5	17
W3-126	Solar	6.4	17
W3-136	Solar	3.8	10
W3-138	Solar	3.8	10
W3-139	Solar	0	10
W3-142	Solar	6.8	18
W3-145	Solar	6.4	17
W3-146	Solar	3.8	10
W3-147	Solar	3.8	10
W3-149	Solar	6.4	17
W3-154	Solar	0.6	1.6
W3-156	Solar	6.4	17
W3-158	Solar	3.08	8
W3-159	Solar	4.56	12

Queue Number	Fuel Type	MWC	MWE
U1-068	Natural Gas	10	10
W1-075	Solar	7.6	20
W2-075	Oil	0.9	0.9
W2-092	Solar	7.6	20
W2-093	Solar	7.6	20
W2-094	Solar	1.1	3
W2-098	Solar	7.6	20
W3-093	Storage	0	3

Queue Number	Fuel Type	MWC	MWE
V4-022	Solar	1.9	5
V4-064	Solar	7.6	20
W1-008	Solar	7.6	20



PECO

Queue Number	Fuel Type	MWC	MWE
W2-014	Oil	2	2



PENELEC

Queue Number	Fuel Type	MWC	MWE
R32	Wind	15	75
T121	Wind	15	75
V3-030	Wind	3.98	30.6
V3-042	Wind	10.9	84
V4-077	Solar	4.9	13
W1-045	Solar	5.13	13.5
W2-018	Methane	4.8	4.8



PEPCO

Queue Number	Fuel Type	MWC	MWE
W3-105	Oil	5	5
W3-155	Natural Gas	0	1
W4-010	Natural Gas	0	29.1

Queue Number	Fuel Type	MWC	MWE
W1-105	Solar	1.14	3
W1-106	Solar	1.9	5
W1-111	Storage	0	20
W2-059	Diesel	1	2.4
W2-081	Solar	1.14	3
W2-096	Solar	7.6	20
W2-097	Solar	7.6	20
W3-102	Solar	5.7	15
W3-167	Solar	3.8	10
W4-070	Solar	0.76	2

Queue Number	Fuel Type	MWC	MWE
T107	Natural Gas	625	625
V3-058	Solar	0	2
V3-059	Solar	0	2
V4-019	Natural Gas	60	60
W1-083	Solar	1.7	4.6
W1-098	Solar	0.367	0.965
W1-099	Solar	0.487	1.282
W1-100	Solar	0.662	1.741
W1-101	Solar	0.532	1.4
W1-121	Solar	3.04	8
W2-004	Other	45	45
W2-020	Solar	1.9	5
W2-021	Solar	1.9	5
W2-027	Solar	1.9	5
W2-031	Solar	3.23	8.5
W2-036	Solar	0.284	0.749
W2-052	Solar	0.225	0.592
W2-056	Solar	4.18	11
W2-058	Solar	0.38	1
W2-060	Solar	7.6	20
W2-071	Solar	1.06	2.8
W2-087	Solar	3.8	10
W2-090	Solar	7.6	20
W2-102	Solar	2.66	7
W3-004	Solar	0.479	1.261
W3-026	Solar	1.9	5
W3-030	Solar	1.9	5
W3-038	Solar	1.9	5
W3-039	Wind	2.6	20

Queue Number	Fuel Type	MWC	MWE
W3-041	Solar	3.8	10
W3-055	Solar	4.56	12
W3-056	Solar	3.04	8
W3-057	Solar	7.6	20
W3-080	Solar	5.7	15
W3-124	Solar	1.08	2.85
W3-129	Solar	2.7	7.3
W3-130	Solar	3.23	8.3
W3-171	Solar	0.76	2
W4-034	Natural Gas	0	3
W4-048	Solar	0.4	1.05
W4-058	Solar	0.267	0.702
W4-061	Solar	3.4	9
W4-074	Solar	2.28	5
W4-075	Solar	3.42	9
W4-080	Solar	7.6	20
X1-021	Solar	1.9	5
X1-043	Solar	0	2
X1-054	Solar	3.8	10
X1-070	Solar	1.44	3.79
X1-071	Solar	0.48	1.27
X1-072	Solar	0.409	1.078



NETWORK UPGRADES AUGUST 1, 2010 – AUGUST 1, 2011

Upgrade ID	Description	Transmission Owner	Required In Service Date	Cost Estimate (\$M)	Driver
n2030	Huntington Junction - Sorenson - AEP portion of improvements needed to increase the rating for Huntington- Sorenson 138kV to 393 MVA, Replace risers and wavetraps at Sorenson	AEP	9/1/2013	0.10	U4-038
n2031	Huntington Junction - Sorenson - Rebuild 7.38 miles of the 138kV line with 1033 ACSR	AEP	9/1/2013	11.00	U4-038
n2032	Grant Tap - Deer Creek - Replacement of wavetraps, risers and bus	AEP	9/1/2013	0.20	U4-039
n2033	Grant Tap - Deer Creek - Rebuild 3.93 miles of Deer Creek - Fisher Body - Mullin 138kV circuit between Deer Creek and Grant Tap with 1033 ACSR	AEP	9/1/2013	4.00	U4-039
n2034	Grant - Fisher Body - Replacement of Risers and bus	AEP	9/1/2013	0.10	U4-039
n2035	Grant - Fisher Body - Perform Sag study for the 138kV (0.6 miles) line section	AEP	9/1/2013	0.40	U4-039
n2041	Haviland - Milan - Cut in and terminate the Haviland - Tilman 138kV circuit in the new interconnection station for the R49 project	AEP	12/31/2011	0.60	R49
n2042	Convoy - East Lima - Upgrade three breaker ring bus station on 345kV circuit for R60	AEP	4/1/2012	8.00	R60
n2043	Convoy - Replace wave trap line tuner and modify relay settings on the East Lima circuit	AEP	4/1/2012	0.09	R60
n2044	East Lima - Replace wave trap line tuner and modify relay settings on the Convoy circuit	AEP	4/1/2012	0.09	R60

Upgrade ID	Description	Transmission Owner	Required In Service Date	Cost Estimate (\$M)	Driver
n2045	Convoy - East Lima - Loop 345kV circuit into the new interconnection station	AEP	4/1/2012	0.60	R60
n2068	Keystone - Sorenson - Replace 345kV line	AEP	12/1/2012	1.00	V4-021
n2069	Desoto - U2 -090 - Replace 345kV Line	AEP	12/31/2012	0.18	V4-033
n3025	Construct a 3-breaker 69kV station including associated disconnect switches, bus, Relay and Controls, SCADA, telemetering and 69kV revenue metering.	AEP	11/1/2012	2.28	R49
n3026	Construct an extension to the Dunkirkj-East Lima 69kV circuit to loop in and out of the new U1-059 Interconnection Station	AEP	11/1/2012	0.40	R49



APS

Upgrade ID	Description	Transmission Owner	Required In Service Date	Cost Estimate (\$M)	Driver
N2055	Grand Point - Modify Substation	APS	5/1/2012	0.26	V4-072
N2056	Grand Point - Modify fuse	APS	5/1/2012	0.03	V4-072
N3047	Install 138kV transfer trip facilities at Pickens substation.	APS	12/31/2012	0.04	U4-002

Upgrade ID	Description	Transmission Owner	Required In Service Date	Cost Estimate (\$M)	Driver
n2138	PB-CS 500kV. At Conastone 500kV Rebuild bay with breakers A B C to 400A. New rate 2939/3733	BGE	10/1/2012	6.60	U2-074
n2148	Replace Conastone-MT Carmel 230kV line to increase rating to E988 MVA	BGE	10/1/2009	22.50	U2-077
n2153	Replace MT Carmel - Northwest 230kV line to increase rating to E988 MVA	BGE	10/1/2009	22.50	U2-077

Upgrade ID	Description	Transmission Owner	Required In Service Date	Cost Estimate (\$M)	Driver
n2020	Bloom TSS 179 - Interconnect substation	ComEd	1/20/2012	1.40	W1-109
n2021	Dixon TDC 317 - Dixon TSS 107 - Tie into Bloom 179 line 15508	ComEd	1/20/2012	0.70	W1-109
n2022	Rock Falls to Nelson - Relay and microwave modification line 15509	ComEd	1/20/2012	0.23	W1-109
n2109	TSS 966 Brookfield Township - Build new 3 breaker ring bus substation	ComEd	12/31/2012	10.43	S62
n2110	TSS 966 Brookfield Township - Transmission Tie in for 3 breaker ring bus substation	ComEd	12/31/2012	1.95	S62
n2111	Modify line relays/communications for 0104 line at LaSalle to be compatible with the cut in of TSS 966 Brookfield Township	ComEd	12/31/2012	0.16	S62
n2112	Modify line relays/communications for 0104 line (to become 96604) at Braidwood to be compatible with the cut in of TSS 966 Brookfield Township	ComEd	12/31/2012	0.16	S62
n2114	Reconfigure 138kV Main/Transfer Bus and install differential relays	ComEd	12/31/2011	0.25	P11

Upgrade ID	Description	Transmission Owner	Required In Service Date	Cost Estimate (\$M)	Driver
n2081	New Substation - Tap Urbana - Darby and create a switching station with 1 138kV breaker and metering. Also install manual sectionalizing switches	Dayton	12/1/2012	1.97	R52
n2082	New Substation - Transmission drop into new substation for R52	Dayton	12/1/2012	0.19	R52
n2083.1	Darby - Install transfer trip relays at substation	Dayton	12/1/2012	0.05	R52
n2083.2	Urbana - Install transfer trip relays at substation	Dayton	12/1/2012	0.04	R52
n2084.1	Replace breaker DB-BH3E at the Urbana substation	Dayton	12/1/2012	0.10	R52
n2084.2	Replace breaker DB-BH3W at the Urbana substation	Dayton	12/1/2012	0.10	R52
n2084.3	Replace breaker DB-BH1 at the Urbana substation	Dayton	12/1/2012	0.10	R52

Upgrade ID	Description	Transmission Owner	Required In Service Date	Cost Estimate (\$M)	Driver
n1592.2	Replace existing Nottingham reactor to achieve a minimum summer emergency rating of 689 MVA (1730 Amps). Time estimate is 24 months. (comes with n1592)	PECO	10/1/2012	1.20	U2-074
n2076.2	Elroy - Replace 1 500kV circuit breaker and 1 wave trap to increase the rating on the 5017 circuit	PECO	6/1/2012	1.00	W2-013
n2139	Replace existing 5012 terminal equipment at Peach Bottom Substation. New rating E3109 (3590 Amps)	PECO	10/1/2012	3.10	U2-074

Upgrade ID	Description	Transmission Owner	Required In Service Date	Cost Estimate (\$M)	Driver
n2070	V3-030 - Interconnection Substation install new 46kV 3 breaker ring bus	PENELEC	6/30/2013	2.70	V3-030
n2071	Ashville - Upgrade relay to support new 46kV V3-030 interconnection substation	PENELEC	6/30/2013	0.23	V3-030
n2072	Spangler - Upgrade relay to support new 46kV V3-030 interconnection substation	PENELEC	6/30/2013	0.27	V3-030
n2073	Patton - Add an RFL-GARD 8000 to transmit status of line MOAB's at remote 46kV substation	PENELEC	6/30/2013	0.07	V3-030
n2074	St. Augustine - Add an RFL-GARD 8000 to transmit status of line MOAB's at remote 46kV substation	PENELEC	6/30/2013	0.07	V3-030
n2075	St. Benedict - Add an RFL-GARD 8000 to transmit status of line MOAB's at remote 46kV substation	PENELEC	6/30/2013	0.07	V3-030

Upgrade ID	Description	Transmission Owner	Required In Service Date	Cost Estimate (\$M)	Driver
n2019	Tamanend - Reconductor approx. 2.1 miles #2 cu, 0.3 miles of #3 cu, 0.60 of #4 cu, modify settings at existing telemetric OCR	PPL	12/31/2012	0.69	W1-115
n2019	Tamanend - Reconductor approx. 2.1 miles #2 cu, 0.3 miles of #3 cu, 0.60 of #4 cu, modify settings at existing telemetric OCR	PPL	12/31/2012	0.69	W1-115
n3053.4	Install a 100ft connection line from the Eldred-Frackville 230kV line to the new 230kV substation	PPL	12/31/2014	0.84	W3-022

Upgrade ID	Description	Transmission Owner	Required In Service Date	Cost Estimate (\$M)	Driver
n2036	Essex - Replace 1PM 138kV circuit breaker with 80kA rating	PSEG	8/31/2012	0.12	T42
n2037	Essex - Replace 3PM 138kV circuit breaker with 80kA rating	PSEG	8/31/2012	0.12	T42
n2038	Essex - Replace 2LM 138kV circuit breaker with 80kA rating	PSEG	8/31/2012	0.12	T42
n2076.1	Branchburg - Replace 2 500kV circuit breakers, 4 breaker disconnect switches, 1 line ds, 1 wave trap to increase the rating on the 5017 circuit	PSEG	6/1/2012	3.75	W2-013
n2078	Kearny - Marion - Reconductor and rebuild the 138k line with 1590 ACSS conductor, assuming no major regulatory or environmental impacts	PSEG	1/31/2012	27.00	T107
n2078	Kearny - Marion - Reconductor and rebuild the 138k line with 1590 ACSS conductor, assuming no major regulatory or environmental impacts	PSEG	1/31/2012	27.00	T107
n2079	Essex - - Hudson - Reconductor 230kV line with 1590 ACSS conductor	PSEG	1/31/2012	10.50	T107
n2079	Essex - - Hudson - Reconductor 230kV line with 1590 ACSS conductor	PSEG	1/31/2012	10.50	T107
n2080	Essex - Replace the 230/138kV transformer	PSEG	1/31/2012	13.50	T107



GENERATION PROJECTS RECEIVED AUGUST 1, 2010 – AUGUST 1, 2011

Queue Number	Fuel Type	MWC	MWE
W3-009	Solar	3.8	10
W3-015	Solar	0	2
W3-016	Solar	7.6	20
W3-017	Solar	7.6	20
W3-018	Solar	22.8	60
W3-028	Wind	45	348
W3-033	Methane	7.5	7.5
W3-034	Methane	7.5	7.5
W3-035	Solar	2.7	7
W3-049	Solar	3.8	10
W3-058	Solar	3.8	10
W3-059	Solar	3.8	10
W3-073	Solar	0	2
W3-075	Solar	7.6	20
W3-082	Solar	7.6	20
W3-089	Solar	7.6	20
W3-090	Solar	3.8	10
W3-092	Solar	1.14	3
W3-100	Solar	3	8
W3-101	Solar	1.21	3.2
W3-103	Solar	1.9	5
W3-104	Solar	1.9	5
W3-109	Solar	0.24	0.625
W3-157	Solar	0.65	1.7
W3-163	Solar	7.6	20
W3-164	Solar	7.6	20
W3-165	Solar	7.6	20
W3-174	Natural Gas	193.5	193.5
W3-175	Natural Gas	371	371

Queue Number	Fuel Type	MWC	MWE
W4-015	Natural Gas	340	340
W4-016	Natural Gas	340	340
W4-018	Solar	3.8	10
W4-027	Solar	3.8	10
W4-028	Solar	7.6	20
W4-040	Solar	3.8	9.7
W4-041	Solar	7.6	20
W4-054	Solar	4.6	12
W4-056	Solar	0.76	2
W4-057	Solar	0.76	2
W4-062	Solar	6.84	18
W4-063	Wind	0.65	5
W4-083	Solar	3.8	10
W4-088	Solar	3.8	10
W4-089	Solar	0	1.6
W4-090	Solar	0	1.34
W4-095	Solar	3.8	5.2
W4-098	Solar	3.8	10
W4-099	Solar	3.8	10
X1-001	Natural Gas	9	9
X1-016	Solar	7.6	20
X1-017	Wind	93	720
X1-024	Solar	5.7	15
X1-044	Solar	3.8	10
X1-066	Solar	0	1
X1-076	Solar	6.84	18
X1-083	Solar	2.28	6
X1-091	Solar	0	1.91
X1-092	Solar	0	1.91

Queue Number	Fuel Type	MWC	MWE
X1-110	Solar	0	2
X1-112	Solar	4.6	20
X2-016	Solar	3.8	10
X2-017	Solar	3.8	10
X2-018	Solar	3.8	10
X2-027	Solar	0.76	2
X2-028	Solar	1.14	3
X2-037	Wind	45.5	350
X2-044	Solar	0.76	2
X2-047	Solar	3.8	10
X2-048	Solar	3.8	10
X2-069	Solar	1.9	5
X2-071	Solar	1.9	5
X2-074	Solar	0.38	1
X2-095	Solar	0.69	1.82
X2-100	Wind	1.87	14.4
X2-101	Wind	2.34	18
X3-013	Solar	3.04	8

Queue Number	Fuel Type	MWC	MWE
W3-005	Wind	65	500
W3-010	Solar	0	0.34
W3-011	Wind	39	300
W3-012	Wind	39	300
W3-014	Wind	39	300
W3-021	Wind	9.1	70
W3-024	Wind	19.4	149.4
W3-051	Wind	7.8	60
W3-060	Wind	15.6	120
W3-063	Methane	0	0.85
W3-085	Wind	24	185
W3-088	Wind	26	200
W3-097	Solar	1.9	5
W3-098	Solar	7.6	20
W3-111	Solar	7.6	20
W3-112	Solar	7.6	20
W3-113	Solar	7.6	20
W3-127	Biomass	0	1
W3-128	Natural Gas	790	790
W3-161	Other	13	13
W3-162	Natural Gas	20	20
W3-170	Solar	0	12
W4-004	Wind	11.7	90
W4-006	Wind	19.5	150
W4-008	Wind	11.7	90
W4-021A	Wind	26	200
W4-036	Solar	0	12
W4-039	Biomass	62.5	62.5
W4-043	Solar	7.6	20

Queue Number	Fuel Type	MWC	MWE
X1-009	Solar	7.6	20
X1-011	Solar	7.6	20
X1-014	Wind	2.6	20
X1-020	Wind	195	1500
X1-027	Other	200	200
X1-033	Solar	0	12
X1-040	Wind	46.8	360
X1-041	Wind	32.7	262
X1-042	Methane	3.2	3.2
X2-006	Natural Gas	700	700
X2-040	Landfill Gas	6	6
X2-052	Natural Gas	1200	1200
X2-053	Landfill Gas	6.4	6.4
X2-058	Wind	19.4	149.5
X2-090	Biomass	11.4	19
X3-001	Solar	0.69	1.82

Queue Number	Fuel Type	MWC	MWE
W3-007	Solar	7.6	20
W3-008	Solar	7.6	20
W3-042	Solar	6.08	16
W3-070	Biomass	50	52
W3-072	Solar	7.6	20
W4-007	Wind	2.6	20
W4-042	Solar	7.6	20
W4-102	Solar	7.6	20
X1-028	Solar	7.6	20
X1-086	Solar	3.69	9.7
X2-008	Hydro	30	30

Queue Number	Fuel Type	MWC	MWE
W3-059A_AT6	Wind	12.9	99
W3-059B_AT7	Wind	12.69	97.6
W3-059C_AT8	Wind	12.9	99
W4-001A_AT9	Methane	3.2	3.2
W4-004A_AT10	Methane	19.2	19.2
W4-004B_AT11	Nuclear	16	29.8
X1-027A_AT12	Wind	65	500
X1-064A_AT13	Natural Gas	268	268
X2-039	Wind	13	100
X2-085	Solar	0	14

Queue Number	Fuel Type	MWC	MWE
W3-046	Wind	0	207.5
W3-052	Wind	26	200
W3-132	Solar	7.4	19.4
W3-133	Wind	2.5	19.5
W3-134	Hydro	10.6	10.6
W3-135	Hydro	12.1	12.1
W4-005	Wind	45.6	351
W4-019	Wind	0	40
W4-033	Solar	3.8	10
W4-082	Methane	7.99	7.99
W4-084	Methane	3.95	3.95
W4-086	Methane	3.99	3.99
W4-087	Methane	3.07	3.07
X1-045	Nuclear	3	3
X1-087	Methane	19	19
X1-099	Solar	2.28	6
X2-019	Natural Gas	180	45
X2-022	Wind	0	189
X2-091	Solar	3.8	10
X2-092	Solar	3.8	10
X2-093	Solar	3.8	10
X3-005	Solar	3.8	10



Dayton

Queue Number	Fuel Type	MWC	MWE
W3-013	Wind	39	300
W4-035	Solar	11.9	20
X2-077	Solar	3.8	10
X3-002	Solar	1.28	3.38

Queue Number	Fuel Type	MWC	MWE
W3-002	Methane	6.4	6.4
W3-019	Wind	19.5	150
W3-043	Wind	65	500
W3-047	Natural		
	Gas	60	39
W3-050	Solar	7.6	20
W3-053	Wind	33.8	260
W3-054	Wind	19.5	150
W3-066	Wind	39	300
W4-001	Solar	5	7
W4-037	Other	0	32
X1-038	Natural		
	Gas	0	35
X1-053	Natural		
	Gas	20	20
X1-067	Solar	0	20
X1-080	Natural		
	Gas	135	135
X1-084	Biomass	60	60
X2-060	Biomass	0	30
X2-061	Methane	4	4
X2-076	Natural		
	Gas	1376	1551
X2-082	Natural		
	Gas	1420	1575
X2-086	Coal	74	77

Queue Number	Fuel Type	MWC	MWE
W3-032A	Natural Gas	309.2	309.2
W3-036	Solar	1.9	5
W3-037	Solar	7.6	20
W3-054A	Wind	12.35	95
W3-061	Solar	7.6	20
W3-071	Solar	4.77	12.54
W3-086	Solar	3.8	10
W3-087	Solar	5.7	15
W3-121	Solar	2.28	6
W3-160	Solar	3.8	10
W3-172	Natural Gas	402	402
W3-173	Natural Gas	218	218
W4-017	Wind	13	100
W4-078	Solar	7.6	20
W4-096	Solar	3.8	10
X1-029	Solar	7.6	20
X1-047	Natural Gas	40	40
X1-074	Natural Gas	291	291
X1-096	Wind	27.3	210
X1-097	Other	30	30
X2-045	Solar	7.6	20
X2-046	Solar	7.6	20
X2-066	Natural Gas	550	550
X2-067	Natural Gas	309	309
X2-083	Other	4	4
X2-084	Solar	7.45	19.6
X3-008	Solar	7.6	20
X3-009	Solar	7.6	20
X3-014	Natural Gas	300	300
X3-015	Solar	7.41	19.5

Queue Number	Fuel Type	MWC	MWE
W3-003	Solar	0	10
W3-006	Solar	0.38	5
W3-025	Solar	0	2.06
W3-029	Solar	6.46	17
W3-032	Solar	3	8
W3-044	Solar	7.6	20
W3-045	Solar	1.14	3
W3-076	Solar	6.4	17
W3-077	Solar	5.7	15
W3-078	Solar	4.94	13
W3-079	Solar	5.3	14
W3-081	Solar	4.18	11
W3-084	Solar	6.31	16.6
W3-095	Solar	5.7	15
W3-106	Solar	0	19.99
W3-107	Solar	3.8	10
W3-108	Solar	0.38	1
W3-110	Solar	3.8	9.99
W3-120	Solar	6.5	17
W3-126	Solar	6.4	17
W3-131	Solar	2.7	7.6
W3-136	Solar	3.8	10
W3-137	Solar	1.5	4
W3-138	Solar	3.8	10
W3-139	Solar	0	10
W3-140	Solar	3	8

Queue Number	Fuel Type	MWC	MWE
W3-141	Solar	1.14	3
W3-142	Solar	6.8	18
W3-143	Solar	1.9	5
W3-144	Solar	3	8
W3-145	Solar	6.4	17
W3-146	Solar	3.8	10
W3-147	Solar	3.8	10
W3-148	Solar	2.3	6
W3-149	Solar	6.4	17
W3-150	Solar	3.8	10
W3-151	Solar	6.1	16
W3-152	Solar	0.95	2.5
W3-154	Solar	0.6	1.6
W3-156	Solar	6.4	17
W3-158	Solar	3.08	8
W3-159	Solar	4.56	12
W4-009	Natural Gas	725	725
W4-011	Solar	5.7	15
W4-014	Solar	6.4	17
W4-021	Natural Gas	800	800
W4-025	Solar	2.6	7
W4-026	Solar	9	17
W4-031	Solar	0	2.6
W4-032	Solar	0	1.5
W4-045	Solar	3.4	9
W4-046	Solar	3.8	10

Queue Number	Fuel Type	MWC	MWE
W4-053	Solar	0	2
W4-055	Solar	3.04	8
W4-060	Solar	3.8	10
W4-064	Solar	1.1	3
W4-065	Solar	1.1	3
W4-066	Solar	1.9	5
W4-067	Solar	3	8
W4-068	Solar	3	8
W4-072	Solar	6	16
W4-073	Solar	6.46	17
W4-079	Solar	0	2
W4-081	Solar	0	2
W4-091	Solar	3.8	10
W4-092	Solar	3.8	10
W4-093	Solar	2.6	7
W4-094	Solar	2.6	6
W4-097	Solar	1.1	3
W4-100	Solar	7.6	20
W4-101	Solar	7.6	20
X1-003	Solar	0.76	1.9
X1-004	Solar	3.6	9.7
X1-005	Solar	3.6	9.7
X1-006	Solar	1.8	4.8
X1-007	Solar	2.2	5.8
X1-008	Solar	2.9	7.8
X1-012	Solar	3.8	10

Queue Number	Fuel Type	MWC	MWE
X1-026	Solar	0	6.25
X1-034	Solar	0.475	1.25
X1-037	Solar	6.46	17
X1-046	Solar	3.04	8
X1-048	Solar	1.52	4
X1-049	Solar	0	2
X1-055	Solar	0.76	2
	Natural		
X1-068	Gas	30	30
X1-069	Solar	3.8	10
X1-073	Solar	4.56	12
X1-075	Solar	1.52	4
X1-077	Solar	0.78	0
X1-079	Solar	3.8	10
X1-081	Solar	1.52	4
X1-082	Solar	4.56	12
X1-085	Solar	1.9	5
X1-088	Solar	9	17
X1-089	Solar	9	17
X1-093	Solar	1.52	4
X1-094	Solar	6.4	17
X1-095	Solar	1.14	3
X1-100	Solar	1.52	4
X1-101	Solar	3.04	8
X1-102	Solar	3.6	9.5
X1-103	Solar	1.52	4
X1-104	Solar	0.93	2.45

Queue Number	Fuel Type	MWC	MWE
X1-105	Solar	4.26	11.2
X1-106	Solar	6.38	16.8
X1-107	Solar	1.06	2.8
X1-111	Solar	0	1.6
X1-114	Solar	1.52	4
X1-115	Solar	0.38	1
X1-116	Solar	2.66	7
X1-117	Solar	1.14	3
X1-118	Solar	1.52	4
X1-119	Solar	1.52	4
X2-001	Solar	3	8
X2-036	Solar	1.5	4
X2-054	Solar	0	10
X2-057	Solar	1.5	4.1
X2-059	Solar	3.8	10
X2-062	Solar	1.9	5
X2-068	Solar	3.8	10
X2-070	Solar	3.8	10
X2-075	Solar	2.3	6
X2-081	Solar	0.6	1.5
X2-096	Solar	1.5	4
X2-097	Solar	3.8	10
X2-098	Solar	3.8	10
X2-099	Solar	3.8	10
X3-010	Solar	1.14	3
X3-011	Solar	1.9	5

Queue Number	Fuel Type	MWC	MWE
W3-064	Solar	7.6	20
W3-067	Solar	7.6	20
W3-093	Other	0	3
W3-168	Solar	5.7	15
W3-169	Solar	4.56	12
X1-013	Natural Gas	1110	1110
	Landfill Gas		
X2-049	Landfill Gas	3.2	3.2
X3-006	Natural Gas	159	150
	Gas		



ODEC

Queue Number	Fuel Type	MWC	MWE
X1-032	Solar	0	4



PECO

Queue Number	Fuel Type	MWC	MWE
W3-096	Solar	0.95	2.5
W3-153	Solar	1	2.6
W3-166	Solar	5.7	15
W4-051	Natural	10.2	12
	Gas		
W4-085	Other	0	2

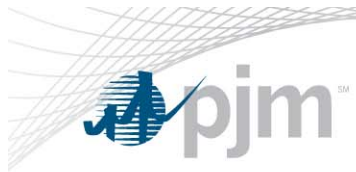
Queue Number	Fuel Type	MWC	MWE
W3-021A	Wind	9.1	70
W3-040	Methane	3.8	3.8
W3-099	Wind	13	100
W3-114	Solar	0.76	2
W3-115	Solar	0.76	2
W3-116	Solar	0.76	2
W3-117	Solar	0.76	2
W3-118	Solar	0.76	2
W3-119	Solar	0.76	2
W4-012	Wind	15.6	120
W4-022	Solar	38	100
W4-071	Wind	0.29	2.25
X1-018	Wind	9.75	75
X1-035	Solar	0.76	2
X1-036	Solar	0.76	2
X1-109	Natural Gas	765	905
X2-020	Wind	26	200
X2-021	Wind	19.98	153.75
X2-023	Wind	6.63	51
X2-031	Wind	6.5	50
X3-003	Natural Gas	0	20

Queue Number	Fuel Type	MWC	MWE
W3-105	Oil	5	5
W3-155	Natural Gas	0	1
	Natural Gas	0	29.1
W4-020	Solar	3.8	10.08
W4-044	Natural Gas	725	725
	Solar	3.8	10
W4-076	Solar	3.8	10
X1-002	Methane	9	9
X1-010	Natural Gas	7.6	20
	Solar	3.8	10
X1-022	Solar	3.8	10
X1-023	Solar	2.28	6
X1-025	Solar	3.8	10
X2-030	Natural Gas	830	830
	Gas	830	830

Queue Number	Fuel Type	MWC	MWE
W3-022	Wind	19.5	150
W3-023	Wind	15.6	120
W3-068	Solar	7.6	20
W3-069	Solar	7.6	20
W3-102	Solar	5.7	15
W3-167	Solar	3.8	10
W4-013	Wind	6.5	50
W4-069	Methane	3	3
W4-070	Solar	0.76	2
X1-019	Wind	7.8	60
	Natural		
X1-108	Gas	33	33
X2-004	Solar	7.6	20
X2-005	Solar	7.6	20
X2-007	Solar	5.7	15
	Natural		
X2-012	Gas	770	905
	Natural		
X2-025	Gas	416	416
X2-026	Methane	3.2	3.2
X2-034	Solar	0	0.32

Queue Number	Fuel Type	MWC	MWE
W3-004	Solar	0.479	1.261
W3-026	Solar	1.9	5
W3-030	Solar	1.9	5
W3-031	Solar	7.6	20
W3-038	Solar	1.9	5
W3-039	Wind	2.6	20
W3-041	Solar	3.8	10
W3-048	Nuclear	50	50
W3-055	Solar	4.56	12
W3-056	Solar	3.04	8
W3-057	Solar	7.6	20
W3-080	Solar	5.7	15
W3-124	Solar	1.08	2.85
	Natural Gas	27.9	27.9
W3-125	Natural Gas	27.9	27.9
W3-129	Solar	2.7	7.3
W3-130	Solar	3.23	8.3
W3-171	Solar	0.76	2
	Natural Gas	300	300
W4-023	Natural Gas	300	300
W4-024	Natural Gas	550	550
W4-029	Solar	1.14	3
	Natural Gas	0	3
W4-034	Natural Gas	0	3
	Natural Gas	60	60
W4-038	Natural Gas	60	60
W4-048	Solar	0.4	1.05
W4-058	Solar	0.267	0.702
W4-059	Solar	0.323	0.85
W4-061	Solar	3.4	9
W4-074	Solar	2.28	5
W4-075	Solar	3.42	9
W4-080	Solar	7.6	20

Queue Number	Fuel Type	MWC	MWE
W4-103	Solar	2.66	7
X1-021	Solar	1.9	5
	Natural Gas	27.9	27.9
X1-039	Natural Gas	27.9	27.9
X1-043	Solar	0	2
X1-050	Solar	3.8	10
X1-051	Solar	3.8	10
X1-052	Solar	3.8	10
X1-054	Solar	3.8	10
X1-070	Solar	1.44	3.79
X1-071	Solar	0.48	1.27
X1-072	Solar	0.409	1.078
X1-090	Solar	3.8	10
X1-098	Other	0.5	0.5
X1-113	Solar	3.8	10
X2-002	Solar	4.26	11.2
X2-003	Solar	0.79	2.1
	Natural Gas	6	6
X2-011	Natural Gas	6	6
X2-013	Solar	0	2
X2-014	Solar	3.8	10
X2-015	Methane	0	2.25
X2-033	Solar	1.14	3
X2-035	Solar	3.04	8
	Natural Gas	750	750
X2-050	Natural Gas	750	750
X2-087	Solar	0.388	1.02
X2-088	Solar	0.895	2.356
X2-089	Solar	0.38	2.112
X2-094	Solar	1.14	3
	Natural Gas	35	35
X3-004	Natural Gas	35	35



Questions

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