

2024 Nuclear Performance Scorecard										
Performance Outcomes	Measures (single-year unless otherwise noted)	2020	2021	2022	2023	2024		Historical Trend		2025
		Actual	Actual	Actual	Actual	Actual	Target			Target
Safety	Total Recordable Injury Frequency (#/200k hours worked)									
	Pickering	0.19	0.10	0.27	0.20	0.20	0.20	●	-	0.20
	Darlington	0.25	0.07	0.08	0.00	0.20	0.20	●	+	0.20
	Total Industrial Safety Accident Rate (#/200k hours) ¹									
	Pickering	0.00	0.03	0.00	0.00	0.00	0.00	●	+	0.00
	Darlington	0.00	0.00	0.00	0.00	0.00	0.00	●	+	0.00
	Collective Radiation Exposure (person rem/unit)									
	Pickering	107.41	67.74	69.99	67.17	103.50	78.90	●	+	59.30
	Darlington	29.97	110.47	29.90	15.64	19.81	84.80	●	+	25.57
	Airborne Tritium Emissions (curies/unit)									
	Pickering	2,918	2,331	2,229	2,164	1,820	2,170	●	+	2,000
	Darlington	879	905	1,157	1,000	958	1,305	●	-	1,215
	Fuel Reliability Index (microcuries /gram)									
	Pickering	0.0001	0.0008	0.0002	0.0003	0.0002	0.0005	●	+	0.0005
	Darlington	0.0035	0.0002	0.0001	0.0001	0.0029	0.0005	●	+	0.0005
	Reactor Automatic and Manual Trip Rate (#/7000 hours) ²									
	Pickering	0.000	0.000	0.139	0.247	0.320	0.500	●	-	0.500
	Darlington	0.000	0.000	0.000	0.100	0.100	0.500	●	-	0.500
	Auxiliary Feedwater System Unavailability (#)									
	Pickering	0.0118	0.0085	0.0010	0.0000	0.0000	0.0000	●	N	0.0000
	Darlington	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	●	N	0.0000
	Emergency AC Power Unavailability (#)									
	Pickering	0.000	0.0000	0.0000	0.0000	0.0000	0.0000	●	N	0.0250
	Darlington	0.000	0.0000	0.0000	0.0000	0.0000	0.0000	●	N	0.0000
	High Pressure Safety Injection Unavailability (#)									
	Pickering	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	●	N	0.0200
	Darlington	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	●	N	0.0000
Reliability	WANO Nuclear Performance Index Rolling Average (%) ³									
	Pickering	82.50	73.80	80.90	81.20	84.95	85.00	●	+	82.75
	Darlington	93.60	85.80	91.40	89.40	74.74	78.90	●	-	80.20
	OPGN	85.30	76.80	82.40	82.30	83.25	84.20	●	+	82.24
	Forced Loss Rate (%)									
	Pickering	2.65	6.22	1.81	2.78	2.56	3.50	●	+	3.50
	Darlington	1.54	3.52	7.51	1.44	12.07	4.61	●	-	3.61
	Unit Capability Rate (%) ⁴									
	Pickering					96.36	96.37	●		96.20
	Darlington					86.97	94.12	●		95.28
	OPGN					92.71	95.54	●		95.67
	Unit Capability Factor (%) ⁴									
	Pickering	76.25	78.92	80.01	80.66	83.30	80.91	●	+	89.14
	Darlington	93.05	82.66	86.99	96.99	74.58	81.26	●	-	94.19
	OPGN	84.45	80.70	82.66	86.68	79.90	81.04	●	-	91.99
	Chemistry Performance Indicator (Index)									
	Pickering	1.06	1.06	1.03	1.18	1.22	1.15	●	-	1.09
	Darlington	1.01	1.01	1.00	1.01	1.03	1.00	●	N	1.05
	On-line Deficient Non-Critical Backlog (work orders / unit)									
	Pickering	88.00	68.00	39.80	29.50	20.20	20.00	●	+	14.00
	Darlington	96.00	70.33	61.00	29.00	17.33	20.00	●	+	14.00
	On-line Deficient Critical Backlog (work orders /unit)									
	Pickering	0.50	1.30	0.80	0.67	0.60	0.00	●	+	0.00
	Darlington	1.33	0.00	0.00	0.00	0.00	0.00	●	+	0.00
	On-line Corrective Non-Critical Backlog (work orders /unit)									
	Pickering	3.00	6.30	3.80	0.83	1.20	1.00	●	+	0.00
	Darlington	2.30	2.00	0.50	0.00	0.00	0.00	●	+	0.00
	On-line Corrective Critical Backlog (work orders /unit)									
	Pickering	0.00	0.30	0.00	0.00	0.00	0.00	●	+	0.00
	Darlington	0.30	0.00	0.00	0.00	0.00	0.00	●	+	0.00
Cost Effectiveness ⁵	Total Generating Cost per Net MWh (\$/MWh)									
	Pickering	67.87	64.75	60.05	69.98	64.30	67.51	●	+	74.88
	Darlington	54.30	79.27	101.52	108.85	141.94	127.08	●	-	71.94
	OPGN	60.66	71.53	76.38	85.73	91.78	89.35	●	-	73.2
	Normalized Total Generating Cost per Net MWh (\$/MWh)									
	Pickering	47.94	44.76	39.55	48.02	41.74	44.22	●	+	34.09
	Darlington	32.23	45.59	33.88	36.60	51.27	42.85	●	-	33.83
	OPGN	39.71	45.15	37.32	43.40	45.15	43.71	●	-	33.95
	Total Generating Cost per Unit (\$M/unit)									
	Pickering	232.32	227.59	214.11	250.49	228.49	231.25	●	-	295.48
	Darlington	389.17	489.03	663.52	796.56	780.21	755.89	●	-	505.78
	OPGN	287.43	314.74	331.65	387.01	372.79	362.41	●	-	385.61
	Normalized Total Generating Cost per Unit (\$M/unit)									
	Pickering	177.15	169.54	151.79	184.98	159.69	163.50	●	+	163.52
	Darlington	241.83	297.90	238.91	287.92	308.25	278.33	●	-	247.89
	OPGN	184.49	212.33	174.57	210.71	198.55	192.21	●	-	199.68
	Non-Fuel Operating Cost per Net MWh (\$/MWh)									
	Pickering	59.97	57.24	54.40	63.24	57.65	60.75	●	-	61.27
	Darlington	36.91	57.64	64.98	67.14	95.70	88.53	●	-	48.10
	Normalized Non-Fuel Operating Cost per Net MWh (\$/MWh)									
	Pickering	--	--	--	--	--	--	-		--
	Darlington	31.33	47.29	41.51	41.83	63.04	55.44	●	-	37.72
	Fuel Cost per Net MWh (\$/MWh)									
	Pickering	3.89	3.72	3.75	3.90	4.29	4.31	●	-	6.80
	Darlington	4.22	4.00	3.82	4.32	5.29	4.62	●	-	5.02
	Capital Cost per MW Design Electrical Rating (\$k/MW)									
	Pickering	26.59	25.79	13.12	19.71	16.27	16.31	●	+	34.71
	Darlington	107.55	123.88	243.57	311.66	256.36	229.91	●	-	150.71
	Normalized Capital Cost per MW Design Electrical Rating (\$k/MW)									
	Pickering	--	--	--	--	--	--	-		--
	Darlington	82.96	90.52	104.28	133.09	111.39	106.91	●	-	110.40
Human Resources	18-month Human Performance Error Rate (#/200k ISAR and contractor hours)									
	Pickering	0.0200	0.0200	0.0600	0.0600	0.0000	0.0000	●	N	0.0000
	Darlington	0.0200	0.0180	0.0000	0.0000	0.0019	0.0000	●	+	0.0000

Note 1 : Industrial Safety Accident Rate (ISAR2) has been replaced by Total Industrial Safety Accident Rate (TISA2) in Q1 2024 to align with NPI methodology transition from Method 4 to Method 10. ISAR included only permanent employees when counting industrial safety accidents, while the new indicator TISA includes both contractors and permanent employees.

Note 2: Rector Trip Rate was replaced by Reactor Automatic & Manual Trip Rate following the NPI Method 10 transition in 2024. The indicator change includes the change from Unplanned Automatic Scrams (UA7) to Unplanned Total Scrams (US7). Method 4 utilized UA7 metric which only included the automatic scram data. The new indicator, US7, which includes both automatic and manual scrams.

Note 3 : The Nuclear Performance Index Method 10 is a WANO sponsored performance measure and is a weighted composite of ten WANO Performance Indicators related to safety and production performance reliability. In Q1 of 2024, Method 10 replaced Method 4: Unit Capability Factor (UCF) was replaced by Unit Capability Rate (UCR) , Automatic Reactor Scrams (UA7) was replaced by Automatic and Manual Scrams (US7,) and Industrial Safety Accident Rate (ISAR2) – replaced by Total Industrial Safety Accident Rate (TISA2). NPI is calculated using a 2-year rolling average for PN and a 3-year rolling average for DN.

Note 4 : UCR replaced UCF due to NPI methodology change from Method 4 to Method 10 in Q1 of 2024. UCF will continue to be reported as UCF incorporates additional factors that impact production (i.e. Unbudgeted Planned Outages).

Note 5 : Value for Money metric targets are subject to change upon finalization of assumptions and cost allocations.

Current Year	+	Favourable
● Target met	-	Unfavourable
● Target not met	N	Neutral