

2025 Nuclear Performance Scorecard

Performance Outcomes	Measures (single-year unless otherwise noted)		2021	2022	2023	2024	2025	Historical Trend		2026	
			Actual	Actual	Actual	Actual	Actual	Target			Target
Safety	Total Recordable Injury Frequency (#/200k hours worked)										
		Pickering	0.10	0.27	0.20	0.20	0.07	0.20	●	+	0.20
		Darlington	0.07	0.08	0.00	0.20	0.08	0.20	●	-	0.20
	Total Industrial Safety Accident Rate (#/200k hours) ¹										
		Pickering	0.03	0.00	0.00	0.00	0.00	0.00	●	+	0.00
		Darlington	0.00	0.00	0.00	0.00	0.00	0.00	●	N	0.00
	Collective Radiation Exposure (person rem/unit)										
		Pickering	67.74	69.99	67.17	47.02	34.14	59.30	●	+	41.82
		Darlington	110.47	29.90	15.64	65.05	11.26	25.57	●	+	66.78
	Airborne Tritium Emissions (curies/unit)										
		Pickering	2,331	2,229	2,164	1,820	1,392	2,000	●	+	1,870
		Darlington	905	1,157	1,000	958	1,060	1,215	●	-	1,049
	Fuel Reliability Index (microcuries /gram)										
		Pickering	0.0008	0.0002	0.0003	0.0002	0.0009	0.0005	●	N	0.0005
		Darlington	0.0002	0.0001	0.0001	0.0029	0.0016	0.0005	●	-	0.0005
Reactor Automatic and Manual Trip Rate (#/7000 hours) ²											
	Pickering	0.000	0.139	0.247	0.320	0.360	0.500	●	-	0.500	
	Darlington	0.000	0.000	0.100	0.100	0.100	0.500	●	-	0.500	
Auxiliary Feedwater System Unavailability (#)											
	Pickering	0.0085	0.0010	0.0000	0.0000	0.0000	0.0000	●	+	0.0000	
	Darlington	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	●	N	0.0000	
Emergency AC Power Unavailability (#)											
	Pickering	0.0000	0.0000	0.0000	0.0000	0.0000	0.0250	●	N	0.0250	
	Darlington	0.0000	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	0.0200	●	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	73.80	80.90	81.20	84.95	88.11	82.75	●	+	81.80
		Darlington	85.80	91.40	89.40	74.74	71.11	80.20	●	-	82.10
		OPGN	76.80	82.40	82.30	83.25	82.44	82.24	●	+	82.52
	Forced Loss Rate (%)										
		Pickering	6.22	1.81	2.78	2.56	2.96	3.50	●	+	3.50
		Darlington	3.52	7.51	1.44	12.07	2.01	3.61	●	-	3.50
	Unit Capability Rate (%) ⁴										
		Pickering	--	--	--	96.36	96.72	96.20	●	+	96.08
		Darlington	--	--	--	86.97	97.18	95.28	●	+	95.34
		OPGN	--	--	--	92.71	96.98	95.67	●	+	95.59
	Unit Capability Factor (%) ⁴										
		Pickering	78.92	80.01	80.66	83.30	91.49	89.14	●	+	87.06
		Darlington	82.66	86.99	96.99	74.58	95.69	94.19	●	+	76.04
		OPGN	80.70	82.66	86.68	79.90	93.86	91.99	●	+	79.50
	Chemistry Performance Indicator (Index)										
		Pickering	1.06	1.03	1.18	1.22	1.08	1.09	●	-	1.04
		Darlington	1.01	1.00	1.01	1.03	1.05	1.05	●	-	1.05
	On-line Deficient Non-Critical Backlog (work orders / unit)										
		Pickering	68.00	39.80	29.50	20.20	12.75	14.00	●	+	14.00
	Darlington	70.33	61.00	29.00	17.33	12.33	14.00	●	+	3.00	
On-line Deficient Critical Backlog (work orders /unit)											
	Pickering	1.30	0.80	0.67	0.60	0.00	0.00	●	+	0.00	
	Darlington	0.00	0.00	0.00	0.00	0.00	0.00	●	N	0.00	
On-line Corrective Non-Critical Backlog (work orders /unit)											
	Pickering	6.30	3.80	0.83	1.20	0.25	0.00	●	+	0.00	
	Darlington	2.00	0.50	0.00	0.00	0.00	0.00	●	+	0.00	
On-line Corrective Critical Backlog (work orders /unit)											
	Pickering	0.30	0.00	0.00	0.00	0.00	0.00	●	+	0.00	
	Darlington	0.00	0.00	0.00	0.00	0.00	0.00	●	N	0.00	
Cost Effectiveness ⁵	Total Generating Cost per Net MWh (\$/MWh)										
		Pickering	64.75	60.05	69.98	64.30	70.53	71.57	●	-	101.57
		Darlington	79.27	101.52	108.85	141.94	71.66	72.18	●	-	85.43
		OPGN	71.53	76.38	85.73	91.78	71.17	71.92	●	-	91.09
	Normalized Total Generating Cost per Net MWh - Updated Methodology (\$/MWh)										
		Pickering	--	--	37.36	32.03	32.04	32.77	●	+	45.67
		Darlington	--	--	41.10	49.37	35.14	34.78	●	+	43.76
		OPGN	--	--	38.73	38.15	33.76	33.90	●	+	44.35
	Normalized Total Generating Cost per Net MWh - Original Methodology (\$/MWh)										
		Pickering	44.76	39.55	48.02	41.74	41.78	42.06	●	+	57.25
		Darlington	45.59	33.88	36.60	51.27	37.28	37.52	●	-	59.72
		OPGN	45.15	37.32	43.40	45.15	39.24	39.49	●	+	58.83
	Total Generating Cost per Unit (\$/unit)										
		Pickering	227.59	214.11	250.49	228.49	290.23	284.63	●	-	288.81
		Darlington	489.03	663.52	796.56	780.21	516.67	507.52	●	-	485.71
		OPGN	314.74	331.65	387.01	372.79	387.27	380.16	●	-	383.54
	Normalized Total Generating Cost per Unit - Updated Methodology (\$/unit)										
		Pickering	--	--	153.88	128.77	135.95	131.81	●	+	131.20
		Darlington	--	--	292.34	305.77	246.14	240.83	●	+	301.07
		OPGN	--	--	188.50	175.06	183.18	178.53	●	+	212.92
Normalized Total Generating Cost per Unit - Original Methodology (\$/unit)											
	Pickering	169.54	151.79	184.98	159.69	183.29	178.70	●	-	178.39	
	Darlington	297.90	238.91	287.92	308.25	282.44	277.54	●	-	357.17	
	OPGN	212.33	174.57	210.71	198.55	225.78	221.06	●	-	264.40	
Non-Fuel Operating Cost per Net MWh (\$/MWh)											
	Pickering	57.24	54.40	63.24	57.65	59.56	59.67	●	-	81.44	
	Darlington	57.64	64.98	67.14	95.70	47.13	48.35	●	-	52.23	
Normalized Non-Fuel Operating Cost per Net MWh (\$/MWh)											
	Pickering	--	--	--	--	--	--	-	-	--	
	Darlington	47.29	41.51	41.83	63.04	36.81	37.78	●	-	49.76	
Fuel Cost per Net MWh (\$/MWh)											
	Pickering	3.72	3.75	3.90	4.29	5.12	5.15	●	-	5.75	
	Darlington	4.00	3.82	4.32	5.29	5.23	5.02	●	-	6.05	
Capital Cost per MW Design Electrical Rating (\$/MW)											
	Pickering	25.79	13.12	19.71	16.27	46.69	34.71	●	-	79.25	
	Darlington	123.88	243.57	311.66	256.36	158.52	150.71	●	-	175.85	
Normalized Capital Cost per MW Design Electrical Rating (\$/MW)											
	Pickering	--	--	--	--	--	--	-	-	--	
	Darlington	90.52	104.28	133.09	111.39	114.84	110.40	●	-	161.24	
Human Resources	18-month Human Performance Error Rate (#/200k ISAR and contractor hours)										
		Pickering	0.0200	0.0600	0.0600	0.0000	0.0300	0.0000	●	+	0.0000
	Darlington	0.0180	0.0000	0.0000	0.0019	0.0200	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 : Reactor 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, 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	5-Year Trend	
● Target met	+	Favourable
● Target not met	-	Unfavourable
	N	Neutral