

ANNEX 2 - STATUS OF CANADIAN NUCLEAR FLEET

Table 22 · Status of Canadian Nuclear Fleet - PLEX and Expected Closure

Reactor	Operator	Grid Connection	Refurbishment ^(a)	Planned Closure ^(b)	Licensed to ^(c)		
Bruce-1	Bruce	1977	Restarted in 2012	2064	2028		
Bruce-2		1976	Restarted in 2012				
Bruce-3		1977	01/01/23–30/06/26				
Bruce-4		1978	01/01/25–31/12/27				
Bruce-5		1984	01/07/26–30/06/29				
Bruce-6		1984	01/01/20–19/10/23				
Bruce-7		1986	01/07/28–30/06/31				
Bruce-8		1987	01/07/30–30/06/33				
Darlington-1	OPG	1990	15/10/21–25/12/24	2055	2025		
Darlington-2		1990	10/16–15/02/20 ^(d)				
Darlington-3		1992	15/02/20–15/06/23 ^(e)				
Darlington-4		1993	01/05-23–31/05/26				
Pickering-1	OPG	1971		2022 ^(f)	2028 ^(g)		
Pickering-4		1973		2022 ^(f)			
Pickering-5		1982		2024			
Pickering-6		1983		2024			
Pickering-7		1984		2024			
Pickering-8		1986		2024			
Point Lepreau		NB Power	1982	03/2008–03/2012		2040 ^(h)	2022

Sources: Compiled by WNISR, from IESO, Operators, CNSC, 2020

Notes:

OPG = Ontario Power Generation.

a - IESO, “Annual Planning Outlook - A view of Ontario’s electricity system needs”, January 2020, see <http://www.ieso.ca/-/media/Files/IESO/Document-Library/planning-forecasts/apo/Annual-Planning-Outlook-Jan2020.pdf?la=en>, accessed 1 August 2020.

b - As announced by operator.

c - As listed on Canadian Nuclear Safety Commission’s (CNSC) website for each station.

Bruce: <https://www.cnsccsn.gc.ca/eng/reactors/power-plants/nuclear-facilities/bruce-nuclear-generating-station/index.cfm>;Darlington: <https://www.cnsccsn.gc.ca/eng/reactors/power-plants/nuclear-facilities/darlington-nuclear-generating-station/index.cfm>;Pickering: <https://www.cnsccsn.gc.ca/eng/reactors/power-plants/nuclear-facilities/pickering-nuclear-generating-station/index.cfm>;Point Lepreau: <https://www.cnsccsn.gc.ca/eng/reactors/power-plants/nuclear-facilities/point-lepreau-nuclear-generating-station/index.cfm>.d - Refurbishment of Darlington-2 was completed in June 2020, with the reactor being reconnected to the grid on 2 June 2020. OPG, “Darlington Unit 2 powers on—Refurbishment now complete on first unit”, 4 June 2020, see <https://www.opg.com/news/darlington-unit-2-powers-on/>, accessed 28 July 2020.e - As of July 2020, refurbishment of Darlington-3 is expected in Q3 2020 with completion in Q4 2026, see OPG, “Darlington Refurbishment”, n.d., see <https://www.opg.com/strengthening-the-economy/our-projects/darlington-refurbishment/>, accessed 1 August 2020.f - Pickering-1 and -4 are expected to be closed in 2022. Recent announcements suggest that Ontario Power Generation and the Ontario government support continuing operating Units 1 and 4 till the end of 2024 and run Units 5 to 8 until the end of 2025; see *DurhamRegion.com*, “Ontario government supports extending Pickering nuclear station’s lifespan”, 16 August 2020, see <https://www.durhamregion.com/news-story/10138629-ontario-government-supports-extending-pickering-nuclear-station-s-lifespan/>, accessed 7 September 2020.g - The Pickering Power Plan is licensed to 2028 but operation beyond 2024 would require additional authorizations, see <https://nuclearsafety.gc.ca/eng/reactors/power-plants/nuclear-facilities/pickering-nuclear-generating-station/index.cfm?pedisable=true>h - NB Power, “NB Power’s 10-Year Plan - Fiscal Years 2021 to 2030”, September 2019, see <https://www.nbpower.com/media/1489656/10-year-plan-2021-to-2030.pdf>, accessed 13 May 2020.