MCDA Decision Criteria last updated May 2020

Millinocket/Quakish Dam (Penobscot Mills Project) FERC No. P-2458 : DAM DATA TABLE (cell values are data values and have not been changed in any way)

Decision Criteria	Keep and Maintain Dam	Improve Fish Passage	Improve Hydropower Capacity	Improve Hydro AND Fish Passage	Remove Dam
Sea-run fish habitat area (100 square m)	0	0-6	0	0-6	0-12
River recreation area (square km)	0	0	0	0	0 -16
Reservoir storage (100,000 acre feet)	0.1	0.1	0.1	0.1	0.00
Annuitized project costs ($2019 thousands/yr)	1,630	4,916	2,061	5,036	297
Breach Damage Potential	0	0	0	0	0
Number of Properties Impacted	0	0	0	0	9
Annual Electricity Generation (GWh/yr)*	203	203	203	203	0
CO2 Emissions Reduction (kilotonne/yr)	40	40	40	40	0
Indigenous Cultural Traditions and Lifeways °	1	3	1	2	5
Industrial Historical Value †	0	0	0	0	0
Town/City Identity †	0	0	0	0	0
Aesthetic Value †	0	0	0	0	0

*1 GWh = 1000 MWh, so to convert from GWh to MWh, multiply the value by 1,000. To convert from MWh to GWh, divide by 1,000.
°Indigenous cultural traditions and lifeways data come from a survey of a sample of Penobscot Nation citizens (N=2), supported by informal conversations with Penobscot Nation citizens and representatives.
†Cells are blank because we do not have data for these decision criteria.

Developed by Emma Fox, Sharon Klein, and Sam Roy of UMaine, with input from stakeholders active in dam decision-making in Maine.

East Millinocket Dam (Penobscot Mills Project) FERC No. P-2458 DAM DATA TABLE

Decision Criteria	Keep and Maintain Dam	Improve Fish Passage	Improve Hydropower Capacity	Improve Hydro AND Fish Passage	Remove Dam
Sea-run fish habitat area (100 square m)	0	0-18	0	0-18	4-37
River recreation area (square km)	0	0	0	0	0-16
Reservoir storage (100,000 acre feet)	0	0	0	0	0
Annuitized project costs ($2019 thousands/yr)	662	1,932	1,767	2,940	232
Breach Damage Potential	0	0	0	0	0
Number of Properties Impacted	0	0	0	0	0
Annual Electricity Generation (GWh/yr)*	38	38	56	56	0
CO2 Emissions Reduction (kilotonne/yr)	7.4	7.4	10.9	10.9	0
Indigenous Cultural Traditions and Lifeways °	1	3	1	2	5
Industrial Historical Value †	0	0	0	0	0
Town/City Identity †	0	0	0	0	0
Aesthetic Value †	0	0	0	0	0

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North Twin Dam (Penobscot Mills Project) FERC No. P-2458 DAM DATA TABLE

Decision Criteria	Keep and Maintain Dam	Improve Fish Passage	Improve Hydropower Capacity	Improve Hydro AND Fish Passage	Remove Dam
Sea-run fish habitat area (100 square m)	0	0-826	0	0-826	0-1652
River recreation area (square km)	2	2	2	2	2 - 17
Reservoir storage (100,000 acre feet)	0.2	0.2	0.2	0.2	0.00
Annuitized project costs ($2019 thousands/yr)	664	1,939	1,762	2,938	293
Breach Damage Potential	1	1	1	1	0
Number of Properties Impacted	0	0	0	0	589
Annual Electricity Generation (GWh/yr)*	47	47	65	65	0
CO2 Emissions Reduction (kilotonne/yr)	6.7	6.7	9.3	9.3	0
Indigenous Cultural Traditions and Lifeways °	1	3	1	2	5
Industrial Historical Value †	0	0	0	0	0
Town/City Identity †	0	0	0	0	0
Aesthetic Value †	0	0	0	0	0

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Dolby Dam (Penobscot Mills Project) FERC No. P-2458 DAM DATA TABLE

Decision Criteria	Keep and Maintain Dam	Improve Fish Passage	Improve Hydropower Capacity	Improve Hydro AND Fish Passage	Remove Dam
Sea-run fish habitat area (100 square m)	0	0-295	0	0-295	0-590
River recreation area (square km)	0	0	0	0	0 - 16
Reservoir storage (100,000 acre feet)	0.3	0.3	0.3	0.3	0.00
Annuitized project costs ($2019 thousands/yr)	1,209	3,606	1,503	3,689	441
Breach Damage Potential	1	1	1	1	0
Number of Properties Impacted	0	0	0	0	25
Annual Electricity Generation (GWh/yr)*	98	98	98	98	0
CO2 Emissions Reduction (kilotonne/yr)	19	19	19	19	0
Indigenous Cultural Traditions and Lifeways °	1	3	1	2	5
Industrial Historical Value †	0	0	0	0	0
Town/City Identity †	0	0	0	0	0
Aesthetic Value †	0	0	0	0	0

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Millinocket Lake Dam (Penobscot Mills Project) FERC No. P-2458

Decision Criteria	Keep and Maintain Dam	Improve Fish Passage	Improve Hydropower Capacity	Improve Hydro AND Fish Passage	Remove Dam
Sea-run fish habitat area (100 square m)	0	0-275	0	0-275	0-550
River recreation area (square km)	0	0	0	0	0
Reservoir storage (100,000 acre feet)	0.4	0.4	0.4	0.4	0
Annuitized project costs ($2019 thousands/yr)	100	278	226	390	85
Breach Damage Potential	1	1	1	1	0
Number of Properties Impacted	0	0	0	0	119
Annual Electricity Generation (GWh/yr)*	0	0	1	1	0
CO2 Emissions Reduction (kilotonne/yr)	0	0	0.1	0.1	0
Indigenous Cultural Traditions and Lifeways °	1	3	1	2	5
Industrial Historical Value †	0	0	0	0	0
Town/City Identity †	0	0	0	0	0
Aesthetic Value †	0	0	0	0	0

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