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Overview of Renewables in WECC's 2026 Common Case

Thomas Carr

Western Interstate Energy Board



RETI 2 Western Outreach
Portland Workshop
August 12, 2016
Portland, OR



Demand for Renewables via RPS in the 2026 Common Case

Loads and RPS Requirements		
State/ Province	2026 Load Forecast (GWh)	2026 RPS Energy Requirement (GWh)
Alberta	118,389	33,386
Arizona	97,821	7,964
British Columbia	72,870	
California	279,914	107,120
Colorado	65,497	12,180
Idaho	30,918	
Montana	15,325	
Mexico	15,501	1,204
New Mexico	44,036	9,192
Nevada	19,184	2,689
Oregon	55,524	10,970
Texas	7,458	379
Utah	37,528	7,028
Washington	113,710	12,719
Wyoming	20,802	
Total	994,476	204,830
RPS%	20.6%	

Regional Loads and RPS Requirements			
Regions	2026 Load Forecast (GWh)	2026 RPS Energy Requirement (GWh)	States/ Province
CA	279,914	107,120	CA
Northwest	200,152	23,689	ID, OR, WA
Southwest	124,463	11,032	AZ, NM, TX
Basin	81,564	16,220	NV, UT
Rocky Mtn	101,799	13,384	CO, MT, WY
Canada	191,259	33,386	AB, BC
MEX	15,325	0	
Total	994,476	204,830	
	%	%	
CA	28%	52%	CA
Northwest	20%	12%	ID, OR, WA
Southwest	13%	5%	AZ, NM, TX
Basin	8%	8%	NV, UT
Rocky Mtn	10%	7%	CO, MT, WY
Canada	19%	16%	AB, BC
MEX	2%	0%	
Total	100%	100%	



Supply and Location of Renewable Generation

RPS Allocations v. Geographic Generation				Regions		
State/ Province	2026 RPS Energy Requirement (GWh)	RPS RE Allocations	Geographic Generation	Regions	RPS RE Allocations	Geographic Generation
		Existing plus Under Const., Reg Approval, Planned, Conceptual	Existing plus Under Const., Reg Approval, Planned, Conceptual		Existing plus Under Const., Reg Approval, Planned, Conceptual	Existing plus Under Const., Reg Approval, Planned, Conceptual
Alberta	33,386	7,888	9,277	CA	115,348	99,244
Arizona	7,964	11,329	13,071	Northwest	27,191	40,218
British Columbia			6,264	Southwest	14,451	16,897
California	107,120	115,348	99,244	Basin	13,429	17,303
Colorado	12,180	11,880	9,639	Rocky Mtn	12,883	16,474
Idaho			8,050	Canada	7,888	15,541
Montana	1,204	1,004	2,611	MEX	-	5,529
Mexico			5,529	Total	191,191	211,206
New Mexico	2,689	3,094	3,798			
Nevada	9,192	9,170	14,299	CA	60%	47%
Oregon	10,970	14,350	14,214	Northwest	14%	19%
Texas	379	28	28	Southwest	8%	8%
Utah	7,028	4,260	3,004	Basin	7%	8%
Washington	12,719	12,841	17,954	Rocky Mtn	7%	8%
Wyoming			4,224	Canada	4%	7%
Unallocated		20,015		MEX	0%	3%
Total	204,830	211,206	211,206	Total	100%	100%