

## MARCH 21<sup>ST</sup> WORKSHOP FOLLOW UP QUESTION AND RESPONSES

- Question:** What forecast marketed Mid-C output is available in the resource stack in the revised reference case for Phase 1? What forecast Mid-C output dedicated to IOU loads is included in the resource stack for the revised Mid-C scenario in Phase 1?

**Response:** The table below includes both Marketed and IOU Mid-C output for the 2022 and 2029 Phase 1 revised reference case:

	2022-23	2029-30
Total Marketed Mid-C Output <b>(included in stack for revised reference case)</b>	284 aMW	522 aMW
IOU serving Mid-C Output <b>(included in revised Mid-C scenario)</b>	458 aMW	388 a MW

Resource Type:	Resource Name:	Available Firm Energy for Stack (aMW)	
		2022-2023	2029-2030
IOU Serving Mid-C Output (Active in Mid-C Scenario Only)	PRIEST RAPIDS+WANAPUM - IOU	113.5	113.5
	ROCK ISLAND - IOU	95.7	95.7
	ROCKY REACH - IOU	179.1	179.1
	WELLS - IOU	69.3	NA
Marketed Mid-C Output	PRIEST RAPIDS+WANAPUM	160.4	160.4
	ROCK ISLAND	63.8	146.7
	ROCKY REACH	59.7	215.0
Conservation	BPA PROG CONS	47.9	39.0
	BPA PROG CONS	50.7	39.0
	BPA PROG CONS	43.1	39.0
	BPA PROG CONS	32.5	39.0
	BPA PROG CONS	39.0	39.0
	BPA PROG CONS	39.0	39.0
	BPA PROG CONS	41.2	39.0
	BPA PROG CONS	39.0	39.0
	BPA PROG CONS	39.0	39.0
	BPA PROG CONS	39.0	39.0
	BPA PROG CONS	24.7	39.0
Marketed Wind	STATELINE WIND	24.98	21.58
	HARVEST WIND	26.60	23.42
	NINE CANYON WIND	8.92	7.85
	WHEAT FIELD WIND	26.22	23.08
	HAY CANYON WIND	27.36	24.09
	WHITE CREEK WIND	21.28	18.21
Non-Mid-C Hydro	COWLITZ FALLS	26.0	26.0
Gas	FREDRICKSON CCGP	12.33	12.33
Billing Credits	BILL CREDIT CUSHMAN	1.76	NA
	BILL CREDIT WYNOOCHEE	3.4	NA
	BILL CREDIT SOUTH FORK	6.5	NA

**2. Question:** At what price would the Mid-Cs be available in the resource stack?

**Response:** Mid-C resources are priced at cost. Each of the Mid-C project costs is calculated using the most recent financial information publicly available from the project owners. Costs are levelized to the first year of the test period (FY 2022 and 2029 respective to each model). BPA staff are currently working on updating Mid-C costs with new information provided by the project owners.

**3. Question:** How much are 7(b)(2) Case loads adjusted by when reflecting Conservation Savings made available in the resource stack?

**Response:** See row 94 of 7b2 Con Load tab in RAM2022 REP model [posted externally](#) and the RAM2029 REP Model from Phase 1 (Original Reference Case):

	RAM2022 REP	RAM2029 REP
Included in Resource Stack (Row 94 on 7b2 Con Load tab)	2022: 291 aMW	2029: 273 aMW
	2023: 330 aMW	2030: 312 aMW
	2024: 367 aMW	2031: 351 aMW
	2025: 408 aMW	2032: 390 aMW
	2026: 447 aMW	2033: 429 aMW
	2027: 486 aMW	2034: 468 aMW
	Test period Avg: 389 aMW	Test period Avg: 370 aMW
Called upon from the Resource Stack in Reference Case (Row 54 of ConservRes2 tab)	2022: 0 aMW	2029: 121 aMW
	2023: 220 aMW	2030: 121 aMW
	2024: 220 aMW	2031: 201 aMW
	2025: 220 aMW	2032: 201 aMW
	2026: 220 aMW	2033: 282 aMW
	2027: 343 aMW	2034: 282 aMW

**4. Question:** What is the cost of Conservation added back in the Phase 1 Conservation Scenario 4 (Conservation = Program Case with Costs)?

**Response:** The cost averages \$179 million annually in the 2022-23 analysis and \$178 million annually in the 2029-30 analysis, annual breakdown shown below and shown in row 23 in the 7b2COSA in the RAM2022 REP Model posted externally with scenario 4 selected.

	RAM2022 REP	RAM2029 REP
Conservation Costs	2022: \$199 million	2029: \$167 million
	2023: \$189 million	2030: \$174 million
	2024: \$181 million	2031: \$174 million
	2025: \$173 million	2032: \$182 million
	2026: \$170 million	2033: \$182 million
	2027: \$162 million	2034: \$190 million
	Test period Avg: \$179 million	Test period Avg: \$178 million

