

Calculati+B2:M176on tool

Owner:	Example from another site
Site:	
Revision:	
Revision Date:	

Inputs

Todays Date	4/18/2025
Lake Level (mAHD)	35 mAHD
Tailwater Level	10000 mAHD
Unit Selection	Unit3 only
Calculation of flow	Manual
Unit 4 flow input	5000 ML/day

<- Override the flow calculation

Measured Data			
	Unit 3	Unit 4	Unit 5
Unit Power (MW)	8.390MW	8.390MW	8.390MW
Unit Flow (ML/day)	1276 ML/day	1276 ML/day	1276 ML/day

- Notes
- 1 - Input data in orange cells. Calculations are shown in green in the outputs section.

2 - Click add data to site data to save

3 - If you are putting the data in for a date other than today then todays date will need to be updated manually

4 - Only include head ranges from 40m to 60m

5 - Ensure that guide vane/runner blade openings as well as cam settings are as per calculated outputs

Outputs

Estimate Power Outputs

Question	Answer
Run all units?	No

Description	Combined	Unit 3 only	Unit 4 only	Unit 5 only
Total Generation	#REF!	#REF!	#REF!	#REF!
Unit 3 generation	#REF!	#REF!	#REF!	#REF!
Unit 4 generation	#REF!	#REF!	#REF!	#REF!
Unit 5 generation	#REF!	#REF!	#REF!	#REF!
Predicted flow		#REF!	#REF!	#REF!
Max flow	#REF!	#REF!	#REF!	#REF!
Min flow*	#REF!	#REF!	#REF!	#REF!

Guide Vane Settings

Guide Vane settings for optimal efficiency

	Unit 3	Unit 4	Unit 5
Guide Vane Position (%)	0%	0%	0%

Cam Settings

Cam settings	UNIT 3	UNIT 4	UNIT 5
Scale B =	5.4	5	0
Scale C =	5.06	6.37	0