



**SIMPLIFIED SUMMARY OF THE NEW BASELINE AND MONITORING
METHODOLOGY OR METHODOLOGICAL TOOL FORM**
(Version 01.0)

BASIC INFORMATION OF THE NEW BASELINE AND MONITORING METHODOLOGY OR METHODOLOGICAL TOOL

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Type of standard	New baseline and monitoring methodology
Unique reference number	A.64-PNM003
Title of the new baseline and monitoring methodology or new methodological tool	Pumped Hydro Storage and Supply of Electricity to the Grid
Date of completion of the initial assessment	10/06/2025

SUMMARY OF THE NEW BASELINE AND MONITORING METHODOLOGY

Scope of the methodology	This methodology applies to projects that store electrical energy as potential energy at time in the day, convert it back into electricity, and supply it to the grid at later time in the same day. The electricity generation, energy storage, and end-use may occur at the same location or at different locations, but all components are connected to the grid.
Key applicability conditions	<p>>> The methodology is applicable under the following conditions:</p> <ol style="list-style-type: none"> 1. The system stores potential energy in the form of water in a reservoir (stored component) which is subsequently converted back into electricity and supplied to the grid (which may be the same grid or a different one). 2. The generator, storage system owner/operator, and end-user of electricity may be the same entity or separate entities. 3. The energy stored and subsequently supplied must be predominantly sourced from renewable generation sources. This methodology does not apply if non-renewable electricity accounts for 25 % or more of the total energy stored and delivered. 4. The methodology is applicable only where greenhouse gas (GHG) intensity data of the connected electricity grid is publicly available at hourly or finer time intervals for each day of the year, or where reliable annual average GHG intensity data is publicly released by the grid authority. In cases where such data is monitored in real time but released by the grid authority later (e.g., monthly or annually), the methodology remains applicable, if project verification is conducted only after the official release of the data, using the most recent publicly available figures for the relevant monitoring period. 5. The renewable energy plant supplying electricity to PHSP must have been operational for less than two years, to ensure that the project does not divert existing renewable energy and thereby avoids associated emissions.

	6. For pumped hydro storage plants (PHSP), one of the following conditions must be satisfied: (a) The project is implemented as a greenfield project involving multiple reservoirs, with no alteration in the volume of any reservoir; or (b) The project involves the construction of new single or multiple reservoirs, and the power density is greater than 4 W/m ² .
Baseline approach	An approach based on existing actual or historical emissions, adjusted downwards to ensure alignment with paragraph 33 of the RMP.
Demonstration of additionality	The activity participant shall demonstrate additionality based on the additionality standard A6.4-SBM015-A11 Demonstration of additionality in mechanism methodologies Version 1.0
Calculation of emission reductions or net GHG removals	ERs are based on different emission factors of the grid at different hours of the day. Dispatch analysis is used to calculate the hourly grid emission factors. Detailed equations are provided.
Monitored parameters	<p>The principal monitored parameters are:</p> <ul style="list-style-type: none"> -- The amount of electricity delivered to the grid at the different hours of the year. -- The monitored marginal emission factors during different hours of the year.
SUMMARY OF THE NEW METHODOLOGICAL TOOL	
Scope of the methodological tool	>>
Key applicability conditions	>>
Calculation of baseline emissions/removals, project emissions/removals or leakage	>>
Monitored parameters	>>

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Document information

Version	Date	Description
01.0	18 December 2024	Initial publication of form template.
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