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Presentations	Session 1.3	<i>Individual presentations: Forest and Climate.</i>

Abstract Session 1.3 – Assessing effects of climate change mitigation of Harvested Wood Products according to accounting tier level of Tier 2 and Tier 3 in Republic of Korea.

Carbon stored in HWP can be accounted in the balance sheet of GHGs national inventory. The accounting method of carbon stock can make a difference in the balance sheet. When accounting for the carbon stock of solid HWP, Tier 2 level applies the production data of domestic wood products grown in the country and the half-life of the global level based on sawn wood and wood-based panel. In applying the international half-life to 35 years for sawn wood and 25 years for wood-based panel, the accuracy of the account results will vary depending on how close the actual usage time of using the sawn wood and wood-based panel in the country is to the international level. Due to the uncertainty in the account results when applying international half-life to each country, most of Parties including Korea, postponed the decision to include the HWP carbon storage in the national greenhouse gas inventory under the National Determined Contribution (NDC). In order to increase the accuracy of the HWP account value, the IPCC 2014 guideline recommends applying a Tier 3 level account method that reflect specific half-life according to the input amount of industry in moving beyond Tier 2 method. In this study, wood production data and half-life for each Tier 2 and Tier 3 account level were applied differently to determine the difference in the HWP account results according to the two account methods, and to investigate the possibility of applying national inventory. As a result of the study, the climate change mitigation effects of sawn wood and wood-based panel produced from Korean domestic wood has a large difference in the results of each method according to Tier 2 and Tier 3 levels. This is due to the fact that there is a difference in the use pattern of sawn wood and wood-based panel in Korea from the international average half-life. In this study, by analyzing the difference in the amount of GHG reduction by HWP account method, it can contribute to achieving the national GHG reduction target by providing scientific information on the appropriate method for HWP account in the country.

Keyword: Harvested Wood Products, Climate Change Mitigation, Carbon Storage Effects, GHG Inventory

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