

Satoyama conservation to consider from state of bamboo forest

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Submission Category:

(A) Technical research proposal to solve concrete problems

SDGs Targets/Indicators:

The target of our proposed system is the creation of a circular economical system that can contribute to “7; Affordable and Clean Energy”, “9; Industry, Innovation and Infrastructure”, “11; Sustainable Cities and Communities”, “12; Responsible Consumption and Production” and “15; Life On Land” of SDGs.

Abstract:

Since the Tohoku earthquake in 2011, not only coastal areas but also inland forest areas suffered widespread destruction. It caused a decline in the number of forest workers and villages with degraded forests have increased. One of the reasons for degrading forests is the erosion by bamboo with rapid growth rate. Until now, many researches of elemental technology that uses bamboo have been conducted. However, in the case of implement of those technologies, they have not been implemented well in society because they have some problems including the economy. Therefore, it is necessary to construct a technical system combining multiple technologies. Therefore, we constructed a circulating social system that combines the preservation of Satoyama and the creation of a new industry on Miyagi prefecture where we live. In this system, bamboo material, discharged when we maintain village forest, was used effectively in various application from previous research on bamboo. Thus, the system using them will be a system to realize sustainable resources and economy. If this system is implemented, it will greatly contribute to the achievement of SDGs. And, if these efforts are successful in Miyagi Prefecture, this system can be deployed on a larger scale nationwide.

Graphical Abstract:

