

건축물 옥상공간의 이용활성화 방안 연구

— 서울시 사례를 중심으로

A Study for the Building Rooftop Utilization

— Focusing on the Rooftop Space in Seoul

고영호 Ko, Youngho

조상규 Cho, Sang Kyu

(a u r i

A Study on the Building Rooftop Utilization - Focusing on the Building Rooftop in Seoul

Ko, Youngho
Cho, Sang Kyu

Various urban projects to develop and install vegetable gardens, community parks, or solar PV(photovoltaic) systems on a building rooftop are an inevitable observation in a city fully developed so being lack of available land area for other spatial uses. Seoul, S. Korea, is a representative city in terms of promoting building rooftop spaces for solar PV and green rooftop systems.

This study aims to propose the improvement of legislation and policy that relates to the promotion of rooftop solar PV and green rooftop system. For this, current legislation and policy are examined. The types and cases of rooftop PV and greening systems are reviewed as well. Focusing on the buildings in Seoul, this study also analyzed the characteristics of individual building to examine the distribution of buildings which are available for solar PV and green rooftop system.

The result of legislation and policy review represents that application of the legislation and policy is limited to individual building, and that it would be necessary to consider city scale application of the legislation and policy to promote regional rooftop utilization effects. The results of building characteristic analysis and spatial distribution examination, this study shows total number of buildings that are available

for rooftop solar PV and green rooftop systems with pinpointing specific areas where those buildings are mostly located.

For the improvement of legislation and policy this study propose to specificize the spatial target and direction of institutional support for effective promotion of building rooftop utilization by examining building characteristics and rooftop applicability. This study also suggests for clarifying the category of rooftop solar PV facility and its installation practice in current legislation such as 「Building Act」 and 「Housing Act」.

Keywords : Building Rooftop Utilization, Rooftop Solar PV System, Green Rooftop System