



European
Commission

GREEN ROOFS

AS NATURE BASED SOLUTIONS FOR A BETTER LIFE IN CITIES

Better water management

Green blue infrastructure store up to 100 % of annual rainfall, restoring a natural water-cycle.

Reduced Urban Heat Island Effect

Green roofs provide a better insulation, leading to a decreased energy demand. Temperatures on traditional roofs can be up to 40°C higher compared to the green roof.

Increased energy efficiency of cooling systems

A temperature decrease of 1°C improves the efficiency of air conditioning for up to 2%.

Increased energy output of photovoltaic Solar panels

Energy production can be increased up to 16% by cooling down the surrounding when green roofs are installed under photovoltaic panels.

Reduced effects of severe storms

Green Roofs can minimise severe storms effect by cooling down roof surfaces and protect roofs from being damaged by the hail, acting as a punch absorber.

Increased urban biodiversity

Green roofs

- Create stepstones to invite more biodiversity into the cities
- Provide shelter and food for pollinators
- Filter small particles and provide more oxygen into cities