

HEALTHY BUILDING NETWORK

BEST PRACTICE PROJECT: NEW KREISARCHIV VIERSEN

# SUSTAINABLE WATER MANAGEMENT IN HARMONY WITH NATURE

## Situation

- Climate change
- More heavy rainfall events
- Greater heat and drought
- Drinking water protection
- Water protection area zone III

## Goals

- Increase evaporation, RW to RW (rain water)
- Infiltration, RW to groundwater
- Reduce surface runoff
- Improve microclimate
- Habitat for native animals
- Legislation sets stricter standards for water

## Solutions

- Extensive green roof
  - RW runoff slowed down
  - Evaporation
  - Cooling: conversion of solar radiation into evaporation
  - Habitat for insects
- Cistern
  - RW use: Irrigation of outdoor facilities
  - Buffer storage for pond
- Pond
  - Evaporation
  - Habitat/biotope
  - Recreation for staff, visitors and passers-by

- Infiltration trenches
  - Infiltration
  - Groundwater recharge
  
- Canal
  - RW from power roof
  - Water pollution control