

# ISO 24566-2:2024-06 (E)

## Drinking water, wastewater and stormwater systems and services - Adaptation of water services to climate change impacts - Part 2: Stormwater services

---

### Contents

Page

- Foreword..... v
- Introduction..... vi
- 1 Scope..... 1**
- 2 Normative references..... 1**
- 3 Terms and definitions..... 1**
- 4 Objectives..... 2**
  - 4.1 General..... 2
  - 4.2 Other..... 2
- 5 Impacts of climate change on stormwater systems and responses..... 2**
  - 5.1 General..... 2
  - 5.2 Impacts..... 3
  - 5.3 Responses..... 4
- 6 Methodology..... 4**
  - 6.1 General..... 4
  - 6.2 Key functions..... 5
- 7 Assessment of current situation, vulnerabilities and opportunities..... 5**
  - 7.1 General..... 5
  - 7.2 Describe and characterize the current stormwater system..... 5
    - 7.2.1 Typical assets of a system..... 5
    - 7.2.2 Governance..... 5
    - 7.2.3 Strategies..... 6
    - 7.2.4 Risk management..... 6
    - 7.2.5 Operation and asset management..... 7
    - 7.2.6 Metrics and targets..... 7
  - 7.3 Identify and assess current climate-related hazards to stormwater services..... 8
    - 7.3.1 Current climatic conditions..... 8
    - 7.3.2 Current climate-related hazards..... 9
  - 7.4 Identify and assess current system risks and vulnerabilities..... 12
    - 7.4.1 General..... 12
    - 7.4.2 Governance..... 12
    - 7.4.3 Strategies..... 12
    - 7.4.4 Risk management..... 13
    - 7.4.5 Operation and asset management..... 13
    - 7.4.6 Metrics and targets..... 14
  - 7.5 Assess current system opportunities..... 15
- 8 Assessment of future situation, vulnerabilities and opportunities..... 16**
  - 8.1 Identify and assess future climate change hazards..... 16
  - 8.2 Identify and assess future vulnerabilities to stormwater systems..... 17
    - 8.2.1 Governance..... 17
    - 8.2.2 Strategies..... 17
    - 8.2.3 Risk management..... 17
    - 8.2.4 Operation and asset management..... 17
    - 8.2.5 Metrics and targets..... 18
  - 8.3 Assess future opportunities..... 18
- 9 Financial assessments..... 19**

9.1	General.....	19
9.2	Financing adaptation.....	19
9.3	Cost-benefit analysis.....	20
<b>10</b>	<b>Development of adaptation strategy.....</b>	<b>20</b>
10.1	General.....	20
10.2	Adaptation strategies.....	21
10.2.1	General.....	21
10.2.2	Governance.....	21
10.2.3	Strategies.....	21
10.2.4	Risk management.....	22
10.2.5	Operation and asset management.....	22
10.2.6	Metrics and targets.....	23
10.3	Assess revised system.....	23
10.4	Assessment protocols.....	23
10.5	Implementation.....	24
<b>11</b>	<b>Proposed templates.....</b>	<b>24</b>
11.1	Template for response options and actions.....	24
11.2	Template for response categorisations.....	26
<b>12</b>	<b>Monitor, review and update.....</b>	<b>27</b>
<b>Annex A (informative) Examples of stormwater management responses.....</b>		<b>28</b>
<b>Bibliography.....</b>		<b>35</b>