Supplementary material

1. Change in reliability due to climate change

1.1. Change in reliability for DJF (2025-2055)

Figure S1: Change in reliability for 0.5 m$^3$ tank size

Figure S2: Change in reliability for a 1 m$^3$ tank size

Figure S3: Change in reliability for a 10 m$^3$ tank size

Figure S4: Change in reliability for a 15 m$^3$ tank size

Figure S5: Change in reliability for a 20 m$^3$ tank size
1.2. Change in reliability for DJF (2060-2090)

Figure S6: Change in reliability for 0.5 m³ tank size

Figure S7: Change in reliability for a 1 m³ tank size

Figure S8: Change in reliability for a 10 m³ tank size

Figure S9: Change in reliability for a 15 m³ tank size

Figure S10: Change in reliability for a 20 m³ tank size
1.3. Change in reliability for JJA (2025-2055)

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Figure S12: Change in reliability for a 1 m$^3$ tank size

Figure S13: Change in reliability for a 10 m$^3$ tank size

Figure S14: Change in reliability for a 15 m$^3$ tank size

Figure S15: Change in reliability for a 20 m$^3$ tank size
1.4. Change in reliability for JJA (2060-2090)

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**Figure S18:** Change in reliability for a 10 m$^3$ tank size

**Figure S19:** Change in reliability for a 15 m$^3$ tank size

**Figure S20:** Change in reliability for a 20 m$^3$ tank size
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- Figure S24: Change in reliability for a 15 m³ tank size
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1.6. Change in reliability for MAM 2060-2090

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1.7. Change in reliability for SON (2025-2055)

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Figure S33: Change in reliability for a 10 m³ tank size

Figure S34: Change in reliability for a 15 m³ tank size

Figure S35: Change in reliability for a 20 m³ tank size
1.8. Change in reliability for SON (2060-2090)

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Figure S37: Change in reliability for a 0.5 m$^3$ tank size

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Figure S39: Change in reliability for a 15 m$^3$ tank size

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2. Reliability projections due to climate change

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2.2. Reliability projections for JJA (2025-2055)

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