

Sustainable and Resilient Remediation

US Air Force

Air Force Guidance Memorandum to AFI 32-7001, Environmental Management

<https://www.afcec.af.mil/Home/Environment/>

https://static.e-publishing.af.mil/production/1/af_a4/publication/afi32-7001/afi32-7001.pdf

Air Force Restoration Systems and Strategies Website

<https://www.afcec.af.mil/Home/Environment/Technical-Support-Division/Environmental-Restoration-Technical-Support-Branch/Restoration-Systems-and-Strategies/>

US Army Corps of Engineers

Evaluation of Incorporating GSR into US Army Corps of Engineers Environmental Remediation. A 2012 report “EVALUATION OF CONSIDERATION AND INCORPORATION OF GREEN AND SUSTAINABLE REMEDIATION (GSR) PRACTICES IN ARMY ENVIRONMENTAL REMEDIATION “

<https://cdm16021.contentdm.oclc.org/digital/collection/p266001coll1/id/2298>

US Navy

US Navy remediation optimization page houses their references to green and sustainable remediation.

https://www.navfac.navy.mil/navfac_worldwide/specialty_centers/exwc/products_and_services/ev/erb/gsr.html

https://www.navfac.navy.mil/content/dam/navfac/Specialty%20Centers/Engineering%20and%20Expeditionary%20Warfare%20Center/Environmental/Restoration/er_pdfs/gpr/don-ev-pol-opt-actions-20120402.pdf

Green and Sustainable Remediation Best Practices

https://www.navfac.navy.mil/navfac_worldwide/specialty_centers/exwc/products_and_services/ev/go_erb.html

https://www.navfac.navy.mil/content/dam/navfac/Specialty%20Centers/Engineering%20and%20Expeditionary%20Warfare%20Center/Environmental/Restoration/er_pdfs/s/navfacexwc-ev-fs-sustainLTMgmtlandfill-201604pdf.pdf

Department of the Navy Green and Sustainable Remediation Best Management Practices

https://www.navfac.navy.mil/navfac_worldwide/specialty_centers/exwc/products_and_services/ev/erb/gsr.html

https://www.navfac.navy.mil/content/dam/navfac/Specialty%20Centers/Engineering%20and%20Expeditionary%20Warfare%20Center/Environmental/Restoration/er_pdfs/g/navfacexwc-ev-TM-GSR-BMP-201609.pdf

USEPA

Green Streets Report

<https://www.eli.org/research-report/giving-green-streets-green-light-improving-water-quality-through-capital-improvement-policies>

<https://www.eli.org/sites/default/files/eli-pubs/green-streets-report-final-cover-2019-06-20.pdf>

USEPA Green and Sustainable Remediation – Greener Cleanups Webpage

<https://www.epa.gov/greenercleanups/regional-and-state-implementation-greener-cleanups>

Green Remediation Focus

<https://clu-in.org/greenremediation/>

A Citizen’s Guide to Greener Cleanups

<https://clu-in.org/greenremediation/>

https://clu-in.org/download/Citizens/a_citizens_guide_to_greener_cleanups.pdf

Superfund Green Remediation

<https://www.epa.gov/superfund/superfund-green-remediation>

Consideration of Greener Cleanup Activities in the Superfund Cleanup Process

<https://www.epa.gov/superfund/superfund-green-remediation>

<https://semspub.epa.gov/work/HQ/100000160.pdf>

USEPA UST Finder

<https://www.epa.gov/ust/ust-finder>

USEPA Region 1 Clean and Greener Policy for Contaminated Sites

<https://www.epa.gov/greenercleanups/regional-and-state-implementation-greener-cleanups>
https://www.epa.gov/sites/production/files/2016-01/documents/r2_clean_and_green_update.pdf

USEPA Region 2 Clean and Green Policy

<https://www.epa.gov/greenercleanups/regional-and-state-implementation-greener-cleanups>
https://www.epa.gov/sites/production/files/2016-01/documents/r2_clean_and_green_update.pdf

USEPA Region 3 Greener Cleanup and Sustainable Reuse Policy

<https://www.epa.gov/greenercleanups/regional-and-state-implementation-greener-cleanups>
<https://www.epa.gov/sites/production/files/2016-01/documents/r3greenpolicy.pdf>

USEPA Region 4 updated Clean and Green Policy

<https://www.epa.gov/greenercleanups/regional-and-state-implementation-greener-cleanups>
<https://www.epa.gov/sites/production/files/2015-10/documents/cleangreen121713.pdf>

USEPA Region 5 Greener Cleanup Interim Policy

<https://www.epa.gov/greenercleanups/region-5-greener-cleanup-interim-policy>
<https://www.epa.gov/greenercleanups/regional-and-state-implementation-greener-cleanups>
https://www.epa.gov/sites/production/files/2016-01/documents/region_5_greener_cleanup_interim_policy.pdf

USEPA Region 6 Clean and Green Policy

<https://www.epa.gov/greenercleanups/regional-and-state-implementation-greener-cleanups>
<https://www.epa.gov/sites/production/files/2016-01/documents/r6grpolicy.pdf>

USEPA Region 7 Green Cleanup Policy

<https://www.epa.gov/greenercleanups/regional-and-state-implementation-greener-cleanups>
https://www.epa.gov/sites/production/files/2016-01/documents/r7_gr_policy_april2015.pdf

USEPA Region 8 Green Remediation Policy

<https://www.epa.gov/greenercleanups/epa-region-8-green-remediation-policy>
https://www.epa.gov/sites/production/files/2016-01/documents/r8grpolicy_rev1.pdf

USEPA Region 9 Greener Cleanups Policy

<https://www.epa.gov/greenercleanups/regional-and-state-implementation-greener-cleanups>
https://www.epa.gov/sites/production/files/2017-04/documents/r9_greener_cleanups_policy_april_2017.pdf

USEPA Region 10, "The goal of Region 10's Office Clean and Green Policy is to enhance the environmental

<https://www.epa.gov/greenercleanups/regional-and-state-implementation-greener-cleanups>
https://www.epa.gov/sites/production/files/2015-12/documents/r10_clean_and_green_policy_aug_13_2009.pdf

USEPA Green Remediation Technical Primer

<https://www.epa.gov/remedytech/green-remediation-incorporating-sustainable-environmental-practices-remediation>
<https://www.epa.gov/sites/production/files/2015-04/documents/green-remediation-primer.pdf>

USEPA's Science Inventory

<https://www.epa.gov/research-grants/contaminated-sites-natural-disasters-changing-environmental-conditions-and>
<https://cfpub.epa.gov/si/>

Climate Resilience Focus

Alabama

USEPA's "What Climate Change Means for Alabama"

<https://19january2017snapshot.epa.gov/sites/production/files/2016-09/documents/climate-change-al.pdf>

Alaska

USEPA's Climate Resilience Toolkit – Alaska

<https://toolkit.climate.gov/region/alaska>

Department of Homeland Security

Regional Resiliency Assessment Program

<https://www.dhs.gov/cisa/regional-resiliency-assessment-program>

District of Columbia

Case study clean up the Anacostia River, in which the concepts of resiliency and sustainability are considered, and all the groundwater remediation sites along the Tidal Anacostia River are considered.

<https://www.anacostiasedimentproject.com/>

Federal Interagency Working Group

Extreme Storm Events Work Group (ESEWG) of the Federal Subcommittee on Hydrology (SOH) under the Advisory Committee on Water Information (ACWI)

<https://acwi.gov/hydrology/extreme-storm/>

FEMA

FEMA National Flood Insurance Program

<https://www.floodsmart.gov/>

GAO

EPA Should Take Additional Actions to Manage Risks from Climate Change

<https://www.gao.gov/assets/710/702158.pdf>

Idaho

USEPA state "What Climate Change Means for..." state series

<https://19january2017snapshot.epa.gov/sites/production/files/2016-09/documents/climate-change-id.pdf>

Kentucky

USEPA state "What Climate Change Means for..." state series

<https://19january2017snapshot.epa.gov/sites/production/files/2016-09/documents/climate-change-ky.pdf>

Mississippi

USEPA state "What Climate Change Means for..." state series

<https://19january2017snapshot.epa.gov/sites/production/files/2016-09/documents/climate-change-ms.pdf>

Missouri

USEPA state "What Climate Change Means for..." state series

<https://19january2017snapshot.epa.gov/sites/production/files/2016-09/documents/climate-change-mo.pdf>

NASA

NASA Sea Level Change Portal

<https://sealevel.nasa.gov/>

National Institute of Standards

Case Studies of Community Resilience Policy

<https://www.nist.gov/>

<https://nvlpubs.nist.gov/nistpubs/gcr/2016/NIST.GCR.16-002.pdf>

Nevada

USEPA state "What Climate Change Means for..." state series

<https://19january2017snapshot.epa.gov/sites/production/files/2016-09/documents/climate-change-nv.pdf>

NOAA

Extreme Water Levels Tool

<https://tidesandcurrents.noaa.gov/est/>

U.S. Climate Resilience Toolkit

<https://toolkit.climate.gov/>

<http://noaa.maps.arcgis.com/apps/MapSeries/index.html?appid=d9ed7904dbec441a9c4dd7b277935fad&entry=1>

Oklahoma

USEPA state "What Climate Change Means for Oklahoma"

<https://19january2017snapshot.epa.gov/sites/production/files/2016-09/documents/climate-change-ok.pdf>

US Fish and Wildlife Service

Traditional Ecological Knowledge for Application by Service Scientists

<https://www.fws.gov/nativeamerican/>

<https://www.fws.gov/nativeamerican/pdf/tek-fact-sheet.pdf>

US Army Corps of Engineers

Remote Sensing and Monitoring of Earthen Flood-Control Structures

<https://apps.dtic.mil/dtic/tr/fulltext/u2/1037860.pdf>

US Army Corps of Engineers New England District flood risk management page

<https://www.nae.usace.army.mil/Missions/Civil-Works/Flood-Risk-Management/>

USAID

Green Infrastructure Resource Guide

<https://www.usaid.gov/>

https://pdf.usaid.gov/pdf_docs/PA00TDBD.pdf

USDA

Evaporative Stress Index (ESI)

<https://hrsl.arsusda.gov/drought/>

USDOE

US Department of Energy Climate Change Adaptation Plan (2014).

<https://www.energy.gov/science-innovation/climate-change>

https://www.energy.gov/sites/prod/files/2014/10/f18/doe_ccap_2014.pdf

US Department of Energy Climate Change Adaptation Plan Update 2017

<https://www.energy.gov/science-innovation/climate-change>

https://www.energy.gov/sites/prod/files/2017/01/f34/2016%20DOE%20Climate%20Adaptation%20Plan_0.pdf

US Department of Energy Fiscal Year 2019 Site Sustainability Plan Guidance

<https://www.energy.gov/science-innovation/climate-change>

<https://sustainabilitydashboard.doe.gov/PDF/Resources/2019%20Site%20Sustainability%20Plan%20Guidance.pdf>

US Department of Energy Climate change vulnerability screenings

<https://www.energy.gov/science-innovation/climate-change>

<https://www.energy.gov/management/spo/articles/does-vulnerability-screening-guidance-published>

US Department of Energy climate change resources webpage

<https://www.energy.gov/science-innovation/climate-change>

USEPA

USEPA Climate Change Website

<https://www.epa.gov/climate-change>

USEPA Superfund Climate Resilience Adaptation Plan

<https://www.epa.gov/superfund/superfund-climate-resilience>

<https://www.epa.gov/sites/production/files/2016-08/documents/epa-climate-change-adaptation-plan.pdf>

USEPA Superfund Climate Resilience: Vulnerability Assessment website

<https://www.epa.gov/superfund/superfund-climate-resilience-vulnerability-assessment>

USEPA Superfund Climate Resilience: Resilience measures website

<https://www.epa.gov/superfund/superfund-climate-resilience-resilience-measures>

USEPA Superfund Climate Resilience: Adaptive Capacity website

<https://www.epa.gov/superfund/superfund-climate-resilience-adaptive-capacity>

USEPA Climate Change Adaptation Resource Center website

<https://www.epa.gov/arc-x>

USEPA Green Infrastructure Wizard

<https://cfpub.epa.gov/giwiz/>

USEPA Superfund Climate Resilience

<https://www.epa.gov/superfund/superfund-climate-resilience>

USEPA Practical Strategies for Integrating Final Ecosystem Goods and Services into Community Decision-Making

<https://www.epa.gov/aboutepa/about-office-research-and-development-ord#:~:text=The%20Office%20of%20Research%20and%20Development%20%28ORD%29%20is,increasingly%20complex%20environmental%20challenges%20of%20the%2021st%20century.>

<https://nepis.epa.gov/Exe/ZyNET.exe/P100SGRC.TXT?ZyActionD=ZyDocument&Client=EPA&Index=2016+Thru+2020&Docs=&Query=&Time=&EndTime=&SearchMethod=1&TocRestrict=n&Toc=&TocEntry=&QField=&QFieldYear=&QFieldMonth=&QFieldDay=&IntQFieldOp=0&ExtQFieldOp=0&XmlQuery=&File=D%3A%5Czyfiles%5CIndex%20Data%5C16thru20%5CTxt%5C00000006%5CP100SGRC.txt&User=ANONYMOUS&Password=anonymous&SortMethod=h%7C-&MaximumDocuments=1&FuzzyDegree=0&ImageQuality=r75g8/r75g8/x150y150g16/i425&Display=hpfr&DefSeekPage=x&SearchBack=ZyActionL&Back=ZyActionS&BackDesc=Results%20page&MaximumPages=1&ZyEntry=1&SeekPage=x&ZyPURL#>

Climate Change Adaptation Resource Center (ARC-X), Climate Impacts on Water Utilities

<https://www.epa.gov/arc-x/climate-impacts-water-utilities#impacts>

Climate Smart Brownfields Manual

<https://www.epa.gov/land-revitalization>

https://www.epa.gov/sites/production/files/2017-01/documents/final_climate_smart_brownfields_manual_online_version.pdf

USEPA Climate Change Indicators Report

<https://www.epa.gov/climate-indicators>

https://www.epa.gov/sites/production/files/2016-08/documents/climate_indicators_2016.pdf

Evapotranspiration Calculator

<https://www.epa.gov/ceam/evapotranspiration-calculator-desktop-tool>

Development of a Climate Resilience Screening Index (CRSI): An Assessment of Resilience to Acute Meteorological Events and Selected Natural Hazards

<https://nepis.epa.gov/Exe/ZyPDF.cgi?Dockkey=P100SSN6.txt>

USEPA Sustainable and Healthy Communities (SHC) Research program

<https://www.epa.gov/aboutepa/about-sustainable-and-healthy-communities-research-program>

Contaminated Sites, Natural Disasters, Changing Environmental Conditions and Vulnerable Communities: Research to Build Resilience

<https://www.epa.gov/research-grants/contaminated-sites-natural-disasters-changing-environmental-conditions-and>

Storm Surge Inundation Map

<https://www.arcgis.com/apps/MapSeries/index.html?appid=852ca645500d419e8c6761b923380663>

Executive Order 13653 Preparing The United States

<https://www.federalregister.gov/documents/2013/11/06/2013-26785/preparing-the-united-states-for-the-impacts-of-climate-change>

<https://www.govinfo.gov/content/pkg/FR-2013-11-06/pdf/2013-26785.pdf>

Executive Order 13783 Promoting Energy Independence and Economic Growth

https://www.epa.gov/sites/default/files/2017-10/documents/memo_eo13783_energy_independence_economic_growth.pdf

https://www.epa.gov/sites/production/files/2017-10/documents/memo_eo13783_energy_independence_economic_growth.pdf

Executive Order 13834 Regarding Efficient Federal Operations

<https://www.epa.gov/fgc/executive-order-13834-regarding-efficient-federal-operations>

<https://www.govinfo.gov/content/pkg/FR-2018-05-22/pdf/2018-11101.pdf>

West Virginia

USEPA state “What Climate Change Means for...” state series

<https://19january2017snapshot.epa.gov/sites/production/files/2016-09/documents/climate-change-wv.pdf>

Wildfire Focus

Department of Homeland Security

Wildfires

<https://www.ready.gov/wildfires>

DOI

The Office of Wildland Fire

<https://www.doi.gov/wildlandfire>

National Wildfire Coordinating Group

Incident Information System

<https://inciweb.nwcg.gov/>

USEPA

Superfund Climate Resilience: Resilience Measures

<https://www.epa.gov/superfund/superfund-climate-resilience-resilience-measures>

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