Susquehanna River Basin Commission: Managing for Sustainability



Andrew Dehoff, Executive Director





Susquehanna River Basin

The Basin

- 27,510-square-mile watershed
- Diverse landscape
- 4.2 million population
- 49,000+ miles of waterways
- Comprises 43 percent of the Chesapeake Bay watershed

NY PA MID

The River

- 444 miles, largest tributary to the Chesapeake Bay
- Supplies 18 million gallons a minute (26 bgd) to the Bay
- Supports Public Water Supply, Industry and Ecosystem





Susquehanna River Basin Commission

- SRB Compact signed on Dec. 24th, 1970
- Mission: enhance public welfare through comprehensive planning, water supply allocation, and management of water resources
- Fill gaps; avert conflicts; foster cooperation
- Sixty-five staff (45 technical)







Driving Issues

- Water use for power generation
- Public water supply diversions
- Chesapeake Bay







Setting Goals and Priorities

What Governs?

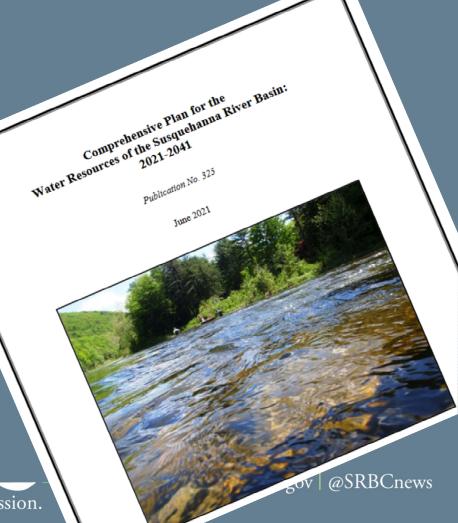






Comprehensive Plan

Section 14.1—The commission shall develop and adopt, and may from time to time review and revise, a comprehensive plan for the immediate and long range development and use of the water resources of the basin.

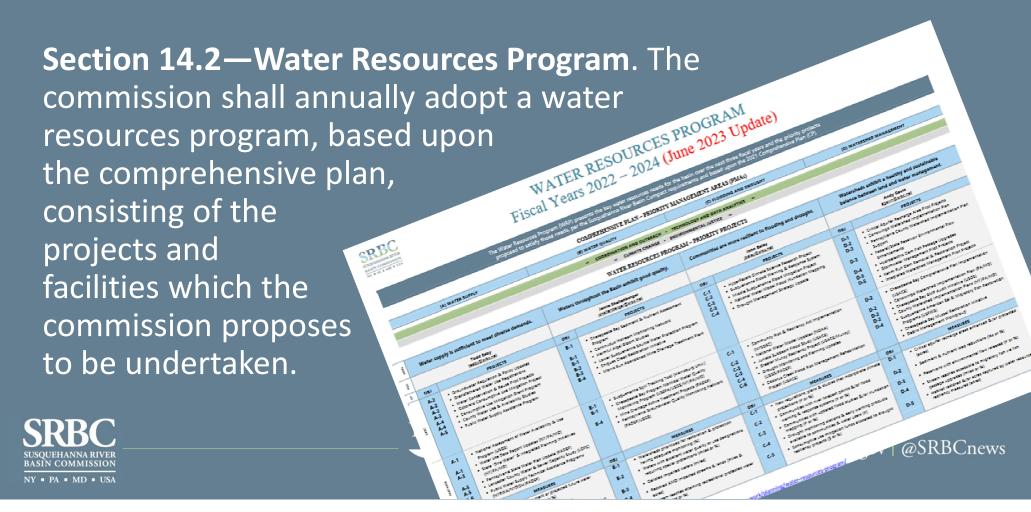




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Our Mission.

Comprehensive Plan Implementation



Priority Management Areas

A. Water Supply – ensure availability and enhance sustainability

B. Water Quality – assess conditions and pursue restoration

C. Flooding and Drought – build community resilience to extreme events

D. Watershed Management – promote practices that allow healthy and natural functions

Underpinned by Planning, Coordination and Outreach





REGULATORY THRESHOLDS

- Groundwater Withdrawals
 - 100,000 gpd
- Surface Water Withdrawals
 - 100,000 gpd
- Consumptive Use
 - 20,000 gpd
- Diversions
 - Into-Basin : Any Amount
 - Out-of-Basin: 20,000 gpd
- Natural Gas
 - Withdrawals and Consumptive







ENVIRONMENTAL & WATER AVAILABILITY CONCERNS

- Sustainability for Multiple Uses
- Avoidance of adverse impacts
- Sensitive features wetlands
- Loss of Fishery Habitat
- Impacts on Recreational Uses
- Cumulative Impacts
- Intake Design Review and Coordination







Electric Generation 87.7 Natural Gas 27.2 Other 10.7

Water Use By Sector (Million Gallons/Day)

Who Uses Water? What Do We Regulate?







































Consumptive Water Use Mitigation



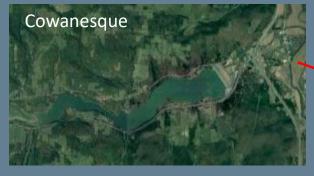


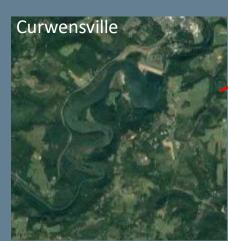


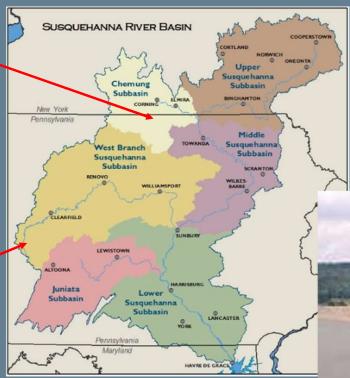


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Consumptive Water Use Mitigation













Develop Additional Consumptive Use Mitigation

- Non-traditional storage
- New policy alternate methods



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NY = PA = MD = USA

Policy Number: Policy No. 2020-01

Title: Consumptive Use Mitigation Policy

Effective Date: March 13, 2020

Authority: Public Law 91-575, 84 Stat. 1509 et seq., Sections 3.1, 3.4(2), 3.5(1), 3.10,

4.1, 4.2, 7.1, 7.2, 12.2, 14.1, 14.2, and 15.1, 18 CFR §§ 801.0, 801.5,

801.6, 801.9, 806.4, 806.5, and 806.22.

Policy: The Susquehanna River Basin Commission (Commission or SRBC)

established regulatory requirements for consumptive uses of water at Part 806. Section 806.22(b) specifies that all project sponsors whose consumptive use is subject to review and approval shall mitigate such consumptive use. Mitigation may be provided by one or a combination of







Alternate Mitigation Methods

- Demand Modification Alternatives
 - Water conservation, water reuse & recycling, & increased groundwater recharge
- Environmental & Water Quality Alternatives
 - Wetland restoration, dam removal, AMD remediation, stormwater BMPs, floodplain reconnection, and riparian buffer projects.







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Encouraging Sustainable Water Use

RESOLUTION NO. 2015-02

A RESOLUTION of the Susquehanna River Basin Commission encouraging the use of dry cooling technology for power generation and other facilities for the conservation of the

waters of the Susquehanna River Basin (the "basin").

WHEREAS, the Susquehanna River Basin Commission (the "Commission") has always encouraged water conservation, particularly when that use is consumptive with respect to the

WHEREAS, the reported basinwide consumptive use for power generation WHEREAS, the reported pasinwide consumptive use for power generation approximately 93 million gallons per day, or 73 percent of all reported consumptive use; waters of the basin; and

basin; and

WHEREAS, it has been the practice of the Commission to encourage pre-ar meetings between project sponsors and Commission staff to determine utilization o meetings between project sponsors and commission start to determine utilization of appropriate cooling technology given the water availability within a particular continuous co

WHEREAS, the Commission recognizes that an increasing number of p facilities, most recently combined cycle natural gas powered plants, are util technology to reduce the environmental footprint in the basin, and are der setting; and efficiencies in operations that are equivalent to wet cooling processes; and WHEREAS, it has been the practice of Commission staff to encourage

WHEREAS, It has been the practice of Commission staff to encourage to consider dry cooling based on the technology's greatly reduced water need; and

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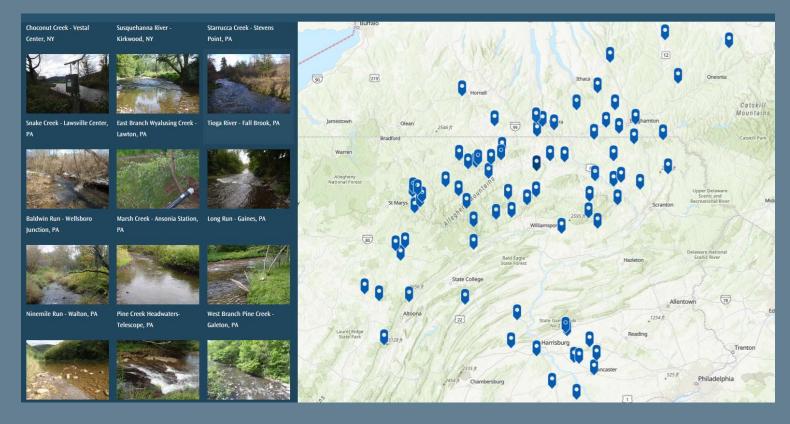


the Commission as part of this policy and that the use of these waters concumnative use of these waters is enhier to the full raculatory review

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avoids adverse impacts to waters of the Basin. The withdrawal and nrocess under 18 CFR Part 806. The use of impacted waters must not be consumptive use of these waters is subject to the full regulatory review advance to the twater recommend of the Racin Our Mission.

Continuous Instream Water Quality Monitoring







Remediate Abandoned Mine Drainage and Mine Land Impacts

- Develop Restoration Plans
- Implement treatment and track success
- Fill implementation gaps
- Develop project pipeline









Improve Community Flood Preparedness

Advocate for robust monitoring and forecasts

Prepare flood inundation maps

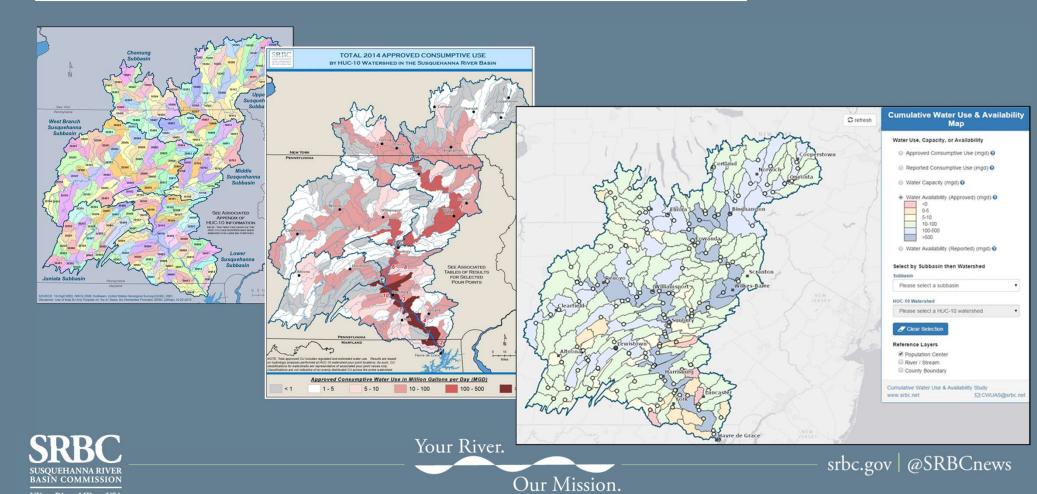






Cumulative Water Use and Availability Study

NY PA MD USA



Emerging Challenges





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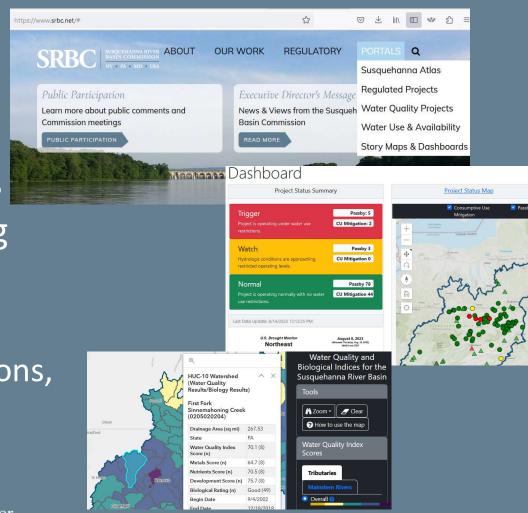
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Engaging Stakeholders

- Portals & Maps
- Data Sharing and Reports
- Water Quality Monitoring
- Technical Assistance
- Public Commenting
 - Withdrawal/use applications, policies, plans, etc.
- Grants





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RECHARGE POTENTIAL IN THE SUSQUEHANNA RIVER BASIN

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Grants

Stream & Watershed Enhancement Grant

Provides funding for community-based environmental and water resources projects or events that improve, restore or protect our local watersheds.

- Anticipated open date: Late Summer 2025
- Individual Grant Award cap: \$5K
- Total Grant Fund: \$150K
- No cash match required

Consumptive Use Mitigation Grant

Competitive grant program funding projects that reduce water use or increase water availability during critical low flow periods.

- Anticipated open date: Late Fall 2025
- Individual Grant Award cap: \$100k+
- Total Grant Fund: \$4-6M
- Minimum cash match: 20%





Thank You!



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