

### **About Ceres**

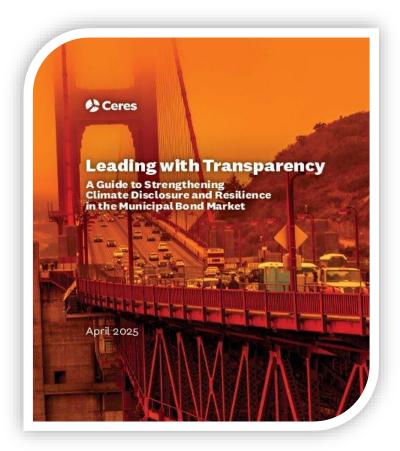
Ceres is a nonprofit advocacy organization working to accelerate the transition to a cleaner, more just, and sustainable world.

Ceres works with the world's **most influential investors and companies** with the greatest impact on our economy to tackle our global sustainability challenges: **climate change, water scarcity and pollution, and nature and biodiversity loss.** 

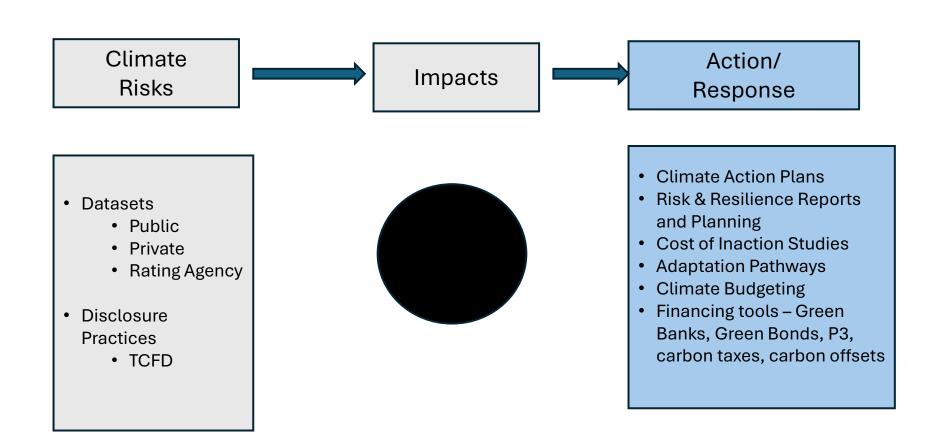
For more information, visit: ceres.org/accelerator.

#### **Recent Ceres Report**

"Leading with Transparency: A Guide to Strengthening Climate Disclosure and Resilience in the Municipal Bond Market" (Link)



### **Current Climate Risk Landscape for Municipal Finance**



### Climate Change Impacts on Municipal Finance

### Physical Impacts

- Asset damage, impairment
- Impact to assessed value, property tax
- Higher costs to construct resilient assets

### Operational Impacts

- Sales tax loss
- · Higher operating costs due to heating, cooling
- Higher provision of emergency services
- Disaster recovery costs, cleanup
- Increased utility costs
- Reduced operational capacity of assets
- Higher demand for public services
- Impacts to enterprise revenue/profitability
- Insurance costs
- Population shifts

### Financing Impacts

- G.O. bonds vs. Revenue bonds
- Ratings

### Equity Impacts

- Socio-economic
- Jurisdictional (externalities)

Evaluated in "Up In Smoke"

### "Up In Smoke" Follow On

#### **Climate Change Can Results in:**

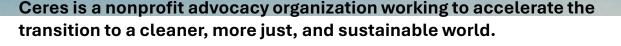
- Externalities Spillovers
  - Fire & Flood
  - Mechanisms needed to coordinate across jurisdictions
- Equity Impacts Low Income communities likely at greatest risk
  - Understand and offset impacts through subsidies and support
- Weaken Revenues & Financial Position
  - Public entities need to strengthen analysis and planning for revenue impacts of climate change.
- Negative Credit Impacts
  - Effectively address in credit/investor presentations
  - Offsetting business steps



## Thank you!



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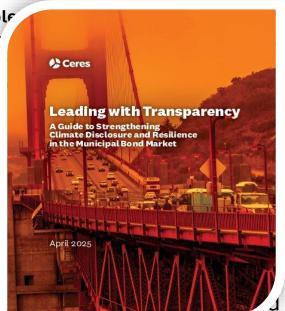
The Ceres Accelerator for Sustainable

Ceres that aims to improve the practic markets by engaging federal and state investors, and corporate boards to act financial risk.

For more information, visit: cs

### **Ceres Report**

"Leading with Transparency: I Climate Disclosure and Resili Market" (<u>Link</u>)



### Climate Change Poses Growing Risk to Our Communities

The New York Times

# Death Toll Rises to 25 as Strong Winds Threaten L.A. Again



Nearly all of US states are facing droughts, an unprecedented number

More than 150 million people and 318m acres of crops are affected by droughts after summer of record heat



Municipal governments are on the front lines—responsible for protecting communities, maintaining essential services, and investing in infrastructure that can withstand future risks.

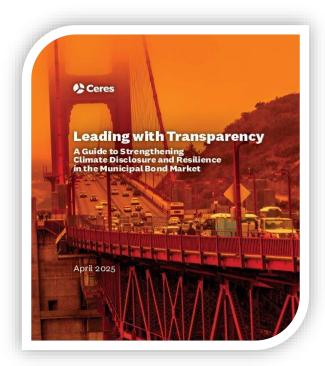






### Where Climate Disclosure is Needed

- Two required disclosures
  - Annual audited financial statements (CAFR)
  - Bond offering documents
- Optional disclosure
  - Climate reporting, Climate Resilience Reports, CDP-ICLEI Track Disclosure tool
- Climate Disclosure in private sector





- GASB requires reporting of material impact that have occurred to balance sheet and income state
- However, Management Discussion and Analysis (MD&A)
   preface to audited statements should include discussion of
   "current conditions that have a significant effect on financial
   position"

Sonoma County Water Agency 2023 Audited Financial Statements "The 2023 fiscal year painted a clear picture of some of the types of extreme weather associated with climate change—beginning in the midst of an historic drought with severely impacted reservoirs, only to progress into heavy winter rains and flooding, low temperatures and even some rarely sighted snow around Sonoma County. Despite heavy winter rains, Sonoma Water delivered 23 percent less water than projected due to historic drought conditions and diligent community conservative efforts prior to the winter rains.... Climate Resiliency: The Sonoma County Climate Action &

# Bond Issuance and Official Statements

- Bond offering documents (OS) are required by SEC to include statement of any material risk.
- Current OS disclosure varies widely.
- Best disclosure practices include identification of risks, governance structure, current & planned actions.

#### OFFICIAL STATEMENT

New Issue Book-Entry Only

DATED: DATE OF INITIAL DELIVERY

Moody's: Aaa Standard & Poor's: AAA Fitch: AAA

(See "Other Bond Information—Ratings on the Bonds.")

In the opinion of Stradling Nocac Carlson & Rauth LLP, Seattle Washington ("Bond Countel"), under existing statutes, regulations, rulings and judicial decisions, and assuming the accuracy of certain representations and compliance with certain covenants and requirements described herein, interest (and original issue discount) on the Bonds is excluded from gross income for federal income tax purposes and is not an item of tax preference for purposes of calculating the federal alternative minimum tax imposed on individuals. See "Legal and Tax Information—Tax Matters" herein with respect to tax consequences relating to the Bonds.

#### \$45,930,000

THE CITY OF SEATTLE, WASHINGTON
LIMITED TAX GENERAL OBLIGATION IMPROVEMENT AND REFUNDING BONDS, 2024

DUE: MAY 1. AS SHOWN ON PAGE I

The City of Seattle, Washington (the "City"), will issue its Limited Tax General Obligation Improvement and Refunding Bonds, 2024 (the "Bonds"), as fully registered bonds under a book-entry only system, registered in the name of the Securities Depository.

The Depository Trust Company, New York, New York ("DTC"), will act as initial Securities Depository for the Bonds. Individual purchases of the Bonds will be made in Book-Entry Form, in the denomination of \$5,000 or any integral multiple thereof within a maturity of the Bonds. Purchasers will not receive certificates representing their interest in the Bonds. Interest on the Bonds is payable semiannually on each May 1 and November 1, beginning November 1, 2024. The principal of and interest on the Bonds are payable by the fiscal agent of the State of Washington (the "Bond Registrat") (currently U.S. Bank Trust Company, National Association), to DTC, which is obligated in turn to remit such payments to its participants for subsequent disbursement to Beneficial Owners of the Bonds, as described in "Description of the Bonds—Registration and Book-Entry Form" and in Appendix D.

City and County of Miami, FL: The County is addressing the threat of climate change in the following ways: (1) incorporating climate change goals into the Comprehensive Development Master Plan; (2) conducting regular communitywide greenhouse gas emissions inventories; (3) assessing the vulnerability of key public infrastructure and implementing a countywide Sea Level Rise Strategy that details key actions and capital projects that reduce risk to current and future flooding while providing a vision for the community to gracefully and equitably adapt to rising sea levels; and (4) implementing policies and initiatives to conserve water, energy, and fuel and protect natural spaces, including Biscayne Bay, that reduce greenhouse gas emissions and negative impacts on the environment. The County's climate change strategy is outlined in GreenPrint"

