RESILIENCE & SUSTAINABILITY HIGHLIGHTS

MARCH 2025

ENERGY EFFICIENCY/ CLEAN ENERGY

Incorporating Resilience into Building Energy Performance Standards (BEPS) - UPDATE: The first meeting of the MD BEPS Cohort will be March 26 and will focus on resources from the Inflation Reduction Act (IRA) around braiding multiple funding streams, understanding IRS Direct Pay mechanisms, and developing projects in underserved neighborhoods.

Project Summary: Grant funding was secured through the Department of Energy (DOE) for technical assistance in drafting and implementing a Building Energy & Resilience Performance Standard (BERPS) model code. Existing Building Performance Standards (BPS) are designed to reduce the greenhouse gas footprint of the existing building stock, but only apply to larger buildings, not smaller buildings and residential buildings most prone to damage from natural disasters. This project seeks to address these policy shortcomings by designing and implementing BERPS for smaller buildings with an emphasis on jurisdictions with significant climate risk. This will not require the City to revise its code but will provide a framework and technical assistance to guide revisions to the City Code. (Bipartisan Infrastructure Law: Resilient and Efficient Codes Implementation (RECI)). \$200,000 of the grant funds are dedicated to Annapolis.

LED Street Lights - UPDATE: R&S has received a quote from outdoor lighting efficiency consultant, Tanko Lighting for a feasibility study of obtaining ownership of Annapolis street lights and changing maintenance contracts. The cost of the study would be \$14,500, and the estimated savings from changing our infrastructure ownership and maintenance is \$6,400,000 over 20 years. Tanko Lighting is also exploring cost-saving retrofits to our non-LED fixtures, as many of the non-LED lights are custom fixtures that are very expensive to replace.

Project Summary: R&S applied to the Maryland Smart Energy Communities grant on January 31, 2025 to provide rebates for LED replacement of City-owned street lights. 260 code 2 lights (city owned and BGE maintained) can reasonably be converted to LED at low cost to the City (the grant will not cover the full cost for all 260 lights). The remaining costs may be covered by BGE smart energy saver rebates, and a small portion (roughly \$6,000) will be covered by the City.

GreenHouse Gas Emissions Inventory and Climate Action Plan – UPDATE: Based on proposal presentations, R&S requested revisions to proposals and will select the adjusted proposal that best fits the goals and restrictions of the GHG inventory and Climate Action Plan (CAP). Invitations for proposals were sent to nine firms (AECOM, Stantec, CQI, GPI, Mead & Hunt, ICF, Keramida, ICLEI, and ESA). Two firms responded with competitive proposals. The FY25 budget is \$50,000, which should be sufficient for the data gathering and analyses tasks. Additional funds are requested in the proposed FY26 budget for the CAP.

Project Summary: 2008 inventories (based on 2006 data) will be updated in one comprehensive document for (1) City facilities emissions and for (2) community emissions. Accompanying this inventory will be (3) a greenhouse gas/ pollution reduction action plan to reach the goals set in the 2040 comprehensive plan, 2040 Annapolis Ahead. Based on the bids, this project will need to be split into two phases: 1) the data inventory and update (currently funded) and 2) the pollution reduction plan/climate action plan (funded by FY26 proposed budget as contractor services).

Community Solar - NEW: - R&S is exploring savings that can be realized through obtaining a portion of the energy needs of City facilities through community solar. Solar For All has a contract with the State of Maryland to connect local jurisdictions with solar energy. There is no cost to the City to participate and the City will realize energy savings on its BGE utility bill. R&S is working with the Department of Finance, the Office of Procurement and the Office of Law to provide Solar For All with the information necessary to perform an energy analysis for the City.

ECOLOGICAL ENHANCEMENT

Pollinator Habitat at the Solar Park - **UPDATE:** A preliminary design was submitted to R&S and DPW staff on February 28 followed by a meeting with the contractor for questions and plan revisions. There will be a second site visit in March and 100 percent design is scheduled for mid-April. On April 10, a virtual presentation of the design will be made by Larry Weaner Landscape Associates (LWLA) to the Environmental Matters Committee. The proposed design covers 18.5 acres, mostly outside of the fence line. Limits on plantable areas are impacted by steep slopes (outside the fence line), existing stormwater BMPs, and the height of the solar arrays. The work is being reviewed and coordinated with DPW regarding design around stormwater practices, mowing schedules, and emissions sampling schedules per MDE requirements. Previously, a site visit was held with LWLA to clarify plantable areas, take current biological inventory, and communicate any needs of the City Manager's Office, DPW, and LWLA. This firm has extensive experience working on native meadows in Annapolis and is experienced in installing meadows above soil caps. The design has an open purchase order of \$24,950, and the firm has estimated implementation costs will be about \$6000 per acre, which enables the City roughly 35 acres per the budget provisions in the Capital Improvement Program. The site may be planted in phases over multiple years. Current funding is sufficient for design and implementation of a significant area of usable planting space. Novis Renewables (the solar park operator) may provide financial support, once it reviews the design and maintenance plan. This may allow other areas to be planted in subsequent years.

Ocean Friendly Garden - UPDATE: On March 11, R&S met with Recreation & Parks to discuss feasible locations to work with the Annapolis High School chapter of Surfrider to install an Ocean Friendly Garden. The Ocean Friendly Gardens program aims to reduce urban runoff and water pollution by applying the principles of Conservation, Permeability, and Retention, which involves using native plants, creating permeable landscapes, and capturing rainwater to prevent contamination of waterways. By transforming urban spaces, the program supports climate resilience goals, sequesters carbon, reduces pollution, and creates opportunities for community engagement with nature-based solutions. The Annapolis HS chapter has \$11,000 for a location in Annapolis. Their preferred location, due to visibility, is the park area by Market House (without interfering with seasonal displays). However, this area is limited for planting and may be disturbed by future redesign of the Dock Street area. Fleet Street Park and Amos Garrett Park were identified for further evaluation. Rec & Parks did not approve the use of Acton Cove Park. The project must also be reviewed and coordinated with DPW for stormwater control considerations.

ELECTRIC VEHICLES/CHARGING INFRASTRUCTURE

Electric Street Cars/Trolley - NEW: Alderman Savidge has proposed the re-establishment of an electric street car system for Annapolis. A potential first route could travel West Street to Parole Center and eventually connect to AAMC and the Annapolis Mall area. The Denker Foundation has provided research into trolley/street car systems across the country and has been partnering with City staff (DOT, R&S, DPZ) and Ald. Savidge to further develop a proposal. The Denker Foundation, in partnership with the Resilience Authority, is funding an information gathering trip for staff to Portland, Oregon to attend the Community Streetcar Coalition Annual Conference, April 27-30.

City Electric Ferry Pilot Project- UPDATE: The City has selected a naval design/build firm from the six firms interviewed in December and early January. The Notice of Intent to Award must be approved by the Maryland Transit Administration (MTA) before the successful bidder may be informed and the Notice may be published. The RFP for the landing sites has been submitted to MTA for review and approval before the RFP may be published. <u>NOTE: Funding for this project was paused in late February pending grant program review by the federal government. This pause also covered the FTA grant to the County to acquire electric ferries (described below). The Ferguson Group believes that these pauses for government review of spending can only be in effect for 30 days. They will investigate this issue further.</u>

Project Summary: The pilot project will run a ferry/or ferries across Spa Creek, with weekend service (Friday – Sunday) and then will expand to other locations and an expanded schedule depending on ridership and other user feedback. This project is funded for the design/build of up to two electric ferries, landing site improvements and charging infrastructure.

NOTE: The City Dock landing site will likely be shared with the future Anne Arundel County ferry and the potential regional Chesapeake Bay ferry. Last fall, the County DOT met with the Harbormaster's Office regarding landing and storage sites in the City for the County ferry. Future coordination efforts with the Harbormaster staff were discussed. Once the weather improves, the Harbormaster will take County staff on a tour of the harbor and surrounding areas by boat. On September 16, the FTA awarded a Passenger Ferry Grant to Anne Arundel County. This grant supports ferry systems in urbanized areas and can be used for vessels, terminals and infrastructure. The County grant of \$3.895 million will be used to purchase vessels for new ferry service between Annapolis, Baltimore, and Matapeake Park (a public park where the former Chesapeake Bay ferry landing is located on Kent Island, Queen Anne's County). Existing terminals will be utilized.

Regional Chesapeake Bay Ferry Project- UPDATE: The consortium of jurisdictions and the VAAAC are interviewing naval design/build firms as an information gathering exercise to inform the development of the RFP for the Chesapeake Bay ferry. The City Harbormaster staff and R&S are included in the interview process.

Fire Department: The Maryland Energy Administration (MEA) heavy-duty truck grant for an **electric pumper truck** was not pursued in the January 31 cycle because the Fleet Manager believes that the technology is nascent and unproven. The City of Frederick, MD and Washington, D.C. recently ordered

electric fire trucks. These jurisdictions will be useful references to learn about their experiences using an electric fire truck.

The Fire Chief is interested in pursuing a truck financed by a MEA grant. *However, the MEA grant only funds up to 75 percent of the <u>delta between a diesel and an electric fire truck</u>. This means that the City would need to find between \$250,000 to \$350,000 for the 25% remaining (the principal cost would be covered by the budgeted replacement diesel fire truck).*

On December 10, Pierce Manufacturing brought an electric fire pumper truck to the Eastport fire station for a presentation by Pierce. Staff from the fire department , maintenance crew, and R&S staff attended along with the Fleet Manager. The truck is battery powered with diesel back up. The truck has a price tag of about \$2.5M (about twice the price of a diesel fire engine). The City would realize maintenance and fuel savings from an electric fire truck. The City of Frederick, MD and Washington, D.C. recently ordered electric fire trucks. The demonstration truck was headed to Cary, North Carolina. Pierce provides basic operational and maintenance training upon delivery. Pierce is assembling pricing information for the Fleet Manager regarding more advanced maintenance training.

An electric fire truck could have been supported with a DC-fast charger through the funding the City already secured through the Energy Efficiency Community Block Grant Award (referenced below under Grants).

Police Department: The police chief is interested in supporting police officers with EV vehicles and home charging infrastructure. R&D continues to explore funding options with MEA and other agencies to allow at home charging for police cruisers.

Land and Marine Fleet Electrification Plan: The Land and Marine Fleet Electrification Action Plan for the City of Annapolis was provided to City Council members in January and it is available on the City website. It references and includes as an Appendix the Department of Transportation draft 2023 Zero Emissions Vehicle Transition Plan (awaiting MDOT input to finalize the document). The next step is for R&S to work with the Fleet Manager on a schedule and budget to implement the plan's recommendations. Some of the plan recommendations are already being addressed, including the purchase of electric buses, circulators, ferries, sedans, SUVs, and compact cars, and landscaping equipment.

5

STORMWATER RESTORATION PROJECTS AND FEES

STORMWATER FEE (Watershed Restoration Fund): Stantec, the City's Rate Study consultant, presented the annual report on the stormwater fee as required by City Code. The report was provided to the City Council at the end of January.

Annapolis Maritime Resilience Initiative (AMRI): The first community engagement meeting was held on December 4 at the Pip Moyer Recreation Center. An overview of the project was presented followed by Q&A and participants identification of vulnerable areas of the Back Creek and Spa Creek watersheds. The AMRI initiative is funded by a NFWF grant of \$820K for feasibility assessment, including public engagement, and design. The project will identify and prioritize critical resilience building infrastructure projects for the Back Creek watershed, focusing on Eastport. Currently, the project is in the community outreach and engagement stage to gain understanding from the community where they experience flood vulnerabilities. The Resilience Authority is leading the project in partnership with the City and with communications support by Council Fire.

Eastport Flood Mitigation Project: DPW Stormwater Engineer, Jasmine Wilding, provided an overview of the project during the December AMRI presentation (discussed above). The City has a FEMA grant of \$300k to identify and design short-term flood mitigation measures (e.g. installation of a pump at the end of Bay Shore Avenue and a back flow preventer at the end of 2nd street). The City also has \$120K through the Army Corps of Engineers to model the stormwater system in Eastport and provide recommendations for improvements. The Eastport Flood Mitigation project will be more fully developed during the first quarter of 2025.

RESILIENCE BUILDING/HABITAT & ECOSYSTEM RESTORATION - GRAY and GREEN INFRASTRUCTURE

Severn River Watershed Resilience Project - UPDATE: On March 6, DNR announced that the Severn River Watershed Project was selected as one of the five projects for funding through the Maryland Whole Watershed Act grant program. At least \$2M in funding and technical assistance will be provided by the State over a five-year period. However, a much higher level of funding is expected after the Resilience Authority negotiates the level of funding and the projects selected (\$43M in projects were identified in the application). The Severn River project was selected for the category of "predominantly suburban area." The grants cover work for restoring waterways, uplifting communities, and enhancing wildlife habitats. Local stakeholder organizations are part of the partnership with the City, County, and Resilience Authority. The project is a comprehensive, watershed-scale approach to ecosystem restoration that includes infrastructure improvements and community-driven planning. The application was submitted by the City of Annapolis, Anne Arundel County, and the Resilience Authority of Annapolis and Anne Arundel County. NOTE: These are state funds authorized by the Maryland Whole Watershed Act of 2024.

Hawkins Cove – UPDATE: Baylands Consultants & Designers, Inc. is working on final design and construction documents. which will be shared with the public this Spring. Final design will extend the pier beyond the current silted area, which will significantly decrease the area needed to be dredged. Dredging costs are being determined and a dredging plan is in development, including how to sequence dredging work and the living shoreline work. Permits for the project are being prepared for submission to the Army Corps of Engineers; this process can take 12-18 months. Potential sites for acceptance of the dredge spoils are being investigated. Analysis of the dredged material is needed. Meanwhile, the City is moving forward with 100 percent design of the project AND with the design and permitting of the improved trail/boardwalk system through the upland area of the project to connect it to Primrose Street and Truxtun Park and the community around Harbor House. This trail work and activation of the upland area of Hawkins Cove, through removal of invasive plants and potentially adding some seating areas, should start to move in 2025.

Anne Arundel County Watershed Restoration Grants/Chesapeake Bay Trust (CBT) - **UPDATE:** The City recently <u>increased its funding of this grant program from \$300,000 to \$800,000</u> through the use of fee In lieu revenue generated by mitigation for the City Dock Resilience project. *Applications are accepted through March 20, 2025 and awards will be made in April.*

Project summary: This grant program funds stormwater control and restoration projects on private property. The program is available to homeowners, communities, faith-based organizations, schools, and non-profit organizations. Watershed assessments, planning, maintenance, and construction projects will be considered. A CBT/City webinar for potential applicants was held in November and may be found on the CBT website.

MD Resilience Action Planning - UPDATE: Three training sessions have been held. The first session focused on climate change basics, terminology, and data resources. The second session focused on community engagement, particularly low income communities. The third session focused on

nature-based solutions. The next session will focus on budgeting and financing for resilience projects. The trainers will schedule Ready for Resilience Assessments with each jurisdiction in April/May.

Project Summary: UMD's Environmental Finance Center invited Annapolis to participate in a 3-month coastal resilience seminar series, with 7 other coastal jurisdictions (January - mid-April). Following the seminar, the Project Advisory Group will provide direct technical assistance to each jurisdiction to develop a Resilience Work Plan prioritizing nature-based projects. Jackie Guild and Dyland Laconich are the staff representatives for Annapolis, Cathy Welker represents the Environmental Commission, Rob Savidge is the elected representative, and Breaking Boundaries, LLC (Randy Rowell) is the local disadvantaged communities representative.

With this technical assistance, R&S will continue to flesh out the Climate Resilience Plan draft framework that it is working on within the context of the City's current projects and plans that focus and touch upon resilience and the environment. This framework primarily leverages the Hazard Mitigation Plan, the Comprehensive Plan, the Military Installation Resilience Review, and other documents.

OTHER PROJECTS

Task Force to Study Houseboats, etc - UPDATE: The Mayor's list of Task Force appointees will need to be confirmed by City Council. It is scheduled to be on the March 24 City Council agenda. Watershed protections non-profit organizations are included on the task force.

Project Summary: In January, R-46-24 Houseboats, Floating Homes and Other Commercial Marine Vessels created a task force to study the impacts, including environmental impacts, on the City of houseboats and other commercial marine vessels. Membership includes watershed organizations and requires reporting of environmental impacts of the identified vessels. With the assistance of City Council members and the Mayor, staff compiled a list of potential task force participants for the Mayor's consideration. NOTE: A report is due by the Task Force in mid-April and a final report by mid-July.

Updates to Conservation Easements - UPDATE: R&S along with the help of OOL, Procurement, and DPZ have established a scope of work for a consultant, McCrone, who will assist with the research to complete documentation of City easements. For easements which are described but not mapped, the firm will also provide a map of the area. McCrone is specialized in surveying, engineering, and land

records, and has previously contracted with the City for this type of work. Further input from DPZ will be provided from their review of Planning Commission meetings regarding intent to create easements.

Previously, R&S staff prepared a memorandum and spreadsheet identifying outstanding issues with conservation properties and making recommendations to the Office of Law to address missing and inaccurate easement descriptions on deeds and plats and obtain accurate surveys. Corrections were made to a number of easements.

Project Summary: The Annapolis Conservancy Board (ACB) and the Maryland Reentry Resource Center (MDRRC) have become concerned about the status and access to properties encumbered by city conservation easements. Working with MDRRC's Chesapeake Climate and Conservation Corps intern, a comprehensive list of issues of City easements was created based on the list of easements listed on the City's website. This information was provided to the Conservancy Board for further action in updating the information connected to easements such as deeds, plats, and GIS mapping.

OOL has created a right of entry agreement for all City easements in order for MDRRC to gain access to all City managed easements.

Municipal Investment Fund - UPDATE: The Resilience Authority has completed and submitted the application with the support of R&S. If approved, the \$250,000 will include creative financing training, feasibility studies, consulting, networking events, and other market-building activities to create the necessary localized social capital for increased green energy investment in Annapolis.

Project Summary: The Municipal Investment Fund (MIF) is a partnership between the International Council for Local Environmental Initiatives (ICLEI) and the Coalition for Green Capital (CGC), presents a critical opportunity for the Resilience Authority of Annapolis and Anne Arundel County to expand its financing ability by developing a funding framework to advance clean energy initiatives. In June 2025, a second phase of funding will be available for \$2 million in pre-development investments.

The fund targets communities seeking to create public-private partnerships for clean energy projects, offering resources to create funding mechanisms and relationships with the private sector to help reduce local energy costs, create jobs, and accelerate environmental sustainability efforts. To date, the Resilience Authority has depended on grant funding and this grant opportunity aligns with the Resilience Authority's objective to secure private funds for its projects. This grant could help the Resilience Authority achieve this objective by accessing funding expertise to transform the region's energy infrastructure and climate adaptation strategies.

9

LEGISLATION AND POLICY

Electric Vehicle infrastructure Laws and Code - R&S is researching requirements for the installation of EV infrastructure or EV-ready wiring/equipment, etc. at new and modified residential and commercial construction in Maryland and other states.

Demonstration Program to Build Green Roofs on City Bus Shelters: R&S provided research and comments on draft City legislation to require a pilot program to add green roofs on five City bus shelters and gather monitoring and evaluation data from the roofs. This legislation (R-2-25) was introduced to the City Council on February 10, sponsored by Alderman Gay.

Maryland General Assembly Legislative Session 2025: R&S reviewed 20 bills for potential impacts on City functions and finances. The City provided a letter of support for the "Bottle Bill" - Maryland Beverage Container Recycling Refund and Litter Reduction Program (HB232/SB346). This bill adds a 10 cent to 15 cent fee (depending on the size of the container) on plastic, metal, and glass beverages bottles that can be reimbursed by returning the beverage containers to reverse vending machines and other designated locations. The Office of Law is interested in providing testimony in support of the RENEW Act (Responding to Emergency Events from Extreme Weather (HB 128) which establishes a fund, financed by the oil and gas industry, for local jurisdictions to implement projects to address the impacts of climate change.

Solar Photovoltaic Laws and Code: R&S is researching requirements for the installation of solar photovoltaic equipment or solar-ready equipment/wiring, etc. at new and modified residential and commercial construction in Maryland and other states.

Plastic Bag Ban - UPDATE: As of March 7, two complaints were received of plastic bag use. The businesses claimed they were ignorant of the ban. The ban went into effect January 22, 2025. An informational web page has been created on the City web site. Flyers and mailers have been distributed to grocery stores, convenience stores, and restaurants. The City ordered 2900 reusable bags and WNAV donated 600 reusable bags for the City to distribute. The City is distributing bags through community centers during food drives, at local churches, and other local community service organizations. Bins with bags will be on transit buses (all routes) starting in February. The City (R&S) will bring flyers to key retailers for their compliance with the postage of the notice regarding the prohibition. The County health department will aid the City by providing education to Annapolis retailers during their regular inspections.

10

Implementation of Gas powered Leaf Blower Ban - UPDATE: In late February, the Resilience Authority Board approved the Resilience Authority to partner with the City in establishing a voucher program and to run the program for the City. The voucher program is intended to ease the transition to electric leaf blowers for City residents and City commercial landscape/lawn care businesses. A \$105,000 supplemental appropriation was approved by City Council in December 2024 for this purpose.

R&S has received five complaints concerning the use of gas powered leaf blowers as of March 11, 2025. City staff are educating residents and businesses concerning the new law's requirements. Enforcement through citations is delayed via Resolution until March 1, but R&S will continue with this policy until March 31 since the vouchers are not yet available and since the intent of the Resolution was a three month delay (which would run January through March).

The City (R&S) has sent out mailers to all Anne Arundel landscaping/lawn care businesses companies about the legislation (about 80 businesses) with a QR code to the new website about the new ordinance. The City posted flyers in businesses that carry blowers within City limits and nearby County businesses, such as Ace Hardware in Edgewater and Cape St. Claire, Home Depot in Parole, and Bowens in Riva. In response to feedback.

GRANT APPLICATIONS

MEA - Community Electric Vehicle Supply Equipment Grant Program - NEW: The City is reviewing application requirements to apply for a Maryland EV infrastructure grant.

ICLEI/ Coalition for Green Capital: The City has been invited by ICLEI to apply for up to \$500,000 in technical assistance for energy projects. More information will be available after upcoming informational meetings.

Application: MEA - MSEC: The City (R&S) submitted its application on January 31, 2025, for street light conversion of 260 city owned lights through the MSEC rebate program. The application includes leveraging BGE smart energy saver's rebates for equipment.

Maryland Energy Administration (MEA): Resilient Maryland application - R&S submitted an application to MEA for \$50,000 to procure consulting services to procure a feasibility study for a resilience hub with

a microgrid at the CNI Harbour House/ Eastport Terrace redevelopment. Cost match of 20% (\$12,500) in in-kind services (salaries of City staff).

Maryland Energy Administration (MEA): Solar Technical Assistance application - R&S submitted an application to MEA for assistance to evaluate the potential for solar installation at several facilities, including Knighton garage, Gotts garage, DPW (39 hudson st), 25 Shaw St., Pip Moyer Recreation Center parking lot, Pip Moyer Recreation Center rooftop, Eastport Fire Station rooftop, and other locations.

Chesapeake Bay Trust (CBT): Chesapeake and Climate Change Corps Program application - Submitted application for a Climate Corps member who may provide assistance to City staff for grant tracking, environmental research and engagement, assistance with projects and plans. Corps members are paid by CBT. *Decisions are announced in mid-March.*

DNR: Greenspace Equity Program application - R&S, DPZ, and DPW have collaborated to submit an application to DNR to fund the design and construction of an improved trail connection between Hawkins Cove and Truxtun Park for the benefit of the surrounding underserved communities.

PUBLIC EDUCATION CAMPAIGNS

Reusable Bag Distribution - **UPDATE**: R&S is partnering with organizations and organizing events to distribute reusable bags and information about the plastic bag ban.

- Robinwood Christmas Community Event
- HACA event
- Admiral Drive community walk
- St. Luke's Baby Pantry
- Annapolis Family Support Center
- Eastport United Methodist Food Pantry
- First Baptist Annapolis Food Pantry
- OHLA: Organization of Hispanic Latin Americans
- Annapolis Immigration Justice Network
- Heritage baptist
- Mt Olive
- Mt Zion
- Stanton Community Center

- "Food Friday"

- Annapolis Department of Transportation (transit lines)

CLIMATE CHANGE LITIGATION

Climate Deception Lawsuit: <u>*City of Annapolis vs. B.P. et al*</u>:- **UPDATE**: The City and Anne Arundel County are appealing the January 23, 2025 dismissal of the lawsuits by the Maryland Circuit Court for Anne Arundel County. The Court ruled that the claims could not be brought under state law. The City of Baltimore is appealing the order dismissing its complaint.

<u>Case summary</u>: This is a lawsuit brought by the City of Annapolis against fossil fuel companies and their trade association, the American Petroleum Institute, seeking damages and other relief based on the companies' alleged concealment of information and deceptive marketing practices concerning their products' contributions to climate change and climate change impacts.