

EC4 ADVISORY BOARD

SEPTEMBER 14, 2022

Agenda

Welcome & Opening Remarks

Review of Minutes from May 25, 2022 (Vote)

News from the RIEC4

Outline Climate Dashboard Elements

- Review of suggested elements
- Data Availability

Other Business/Announcements

Public Comment

Future Meetings - Last Wednesdays 10:30-noon

- Upcoming: October 26, November 30

Adjourn



**EC4
ADVISORY
BOARD
MEMBERSHIP**

- **Diane Williamson** appointed by the Governor
- **Rachel Calabro** appointed by the Governor
- **Amy Rainone** appointed by the House
- **David Caldwell Jr.** appointed by the House
- **Patrick Crowley** appointed by the House
- **Priscilla De La Cruz** appointed by the House
- **Eric Wagner** appointment by the Senate
- **Kenneth Filarski** appointment by the Senate
- **Pam Rubinoff** appointment by the Senate
- **Sheila Dormody** appointment by the Senate
- **3 Governor vacancies**

REVIEW MINUTES

REPORT FROM EC4

CLIMATE DASHBOARD

Act on Climate Mandates

On April 14, 2021, Governor Dan McKee signed into law the 2021 Act on Climate, which sets mandatory, enforceable climate emissions reduction goals leading the state to achieve net-zero emissions economy-wide by 2050. This legislation updates the previous 2014 Resilient Rhode Island Act, positioning the state to boldly address climate change and prepare for a global economy that will be shifting to adapt to clean technology.

Act on Climate as it pertains to a Climate Change Dashboard:

*“To support the council’s (EC4) work, state agencies shall:
Foster public transparency by developing public metrics and an online public dashboard that shall track both emissions reductions and sources of energy consumed by the state. The metrics and the dashboard shall be updated at least annually.”*

R.I. Gen. Laws § 42-6.2-3.

www.climatechange.ri.gov/aoc



EC4 Memorandum

February 2022:

The 2021 Act on Climate requires the Executive Climate Change Coordinating Council (EC4) to “foster public transparency by developing public metrics and an online public dashboard that shall track both emissions reductions and sources of energy consumed by the state” (RIGL 42-6.2-3.13).

The EC4 is requesting advice and guidance from the Advisory Board to develop a draft outline of a climate dashboard by October 31, 2022.

Guiding Principles:

- Meet the letter of the law
- Maximize transparency
- Consider facets of climate change beyond emissions
- Build on best practices
- Balance information with administration
- Consider the dashboard a living document



WHAT CATEGORIES SHOULD WE DISCUSS?



March 24th Session

- Greenhouse gas emissions
- Climate justice and equity
- Resilience and adaptation
- Economic considerations
- Education, outreach
- Workforce development

March 25th Session

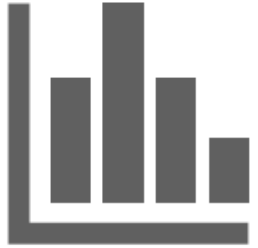
- Greenhouse gas emissions
 - Electric Sector
 - Housing
 - Consumption of Goods
 - Transportation
 - Food
- Climate justice and equity
- Resilience and adaptation

March 29th Session

- Greenhouse gas emissions
 - Emissions inventories, collaboration, frequency
- Climate justice and equity
 - Metrics specific to EJ Communities
- Resilience and adaptation
- Buildings
- Other categories: housing, land use, development, transportation
- Opinions of Rhode Islanders, particularly those in EJ Communities; role of social science methods in tracking

Climate Dashboards across Different States

What are best practices from different dashboards?



Manipulable/interactive data accompanied by explanations



Easily viewable and understandable trends



Inexpensive interface programs



Inclusion of Climate Equity (mapping and criteria)



Quarterly updating



Public feedback on the website (for clarification or inquiries)



Align dashboard metrics with data that is already collected

To View RI's Current Climate Snapshot, visit:
www.climatechange.ri.gov/climatesnapshot

To view climate dashboards from other states, visit:
[Linktr.ee/RIEC4](https://linktr.ee/RIEC4)

Climate Dashboards across Different States

What do different states track on their dashboards?



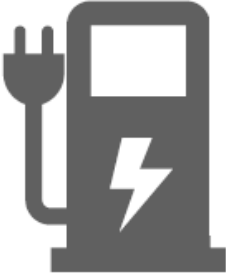
ZEV & State green-fleets



Fuel use



Renewable energy generation



EV Charging Infrastructure



Sea level rise: potential and flooding



Total energy consumption/generation



Utility cost & savings



Drought



Resiliency



Weather: storms, temperature, precipitation



RGGI Funding

Version 1 (5/31)	EC4AB Dashboard Metrics Sorting (from meeting on 5/25)		
	PRIMARY CONSIDERATION	SECONDARY CONSIDERATION	FUTURE CONSIDERATION
Emissions	<ul style="list-style-type: none"> • Reduced emissions <ul style="list-style-type: none"> ○ By gross state product (GSP) ○ By population ○ Per capita ○ YTD data 		<ul style="list-style-type: none"> • Seasonal comparison of data
Transportation	<ul style="list-style-type: none"> • EV incentives by demographic <ul style="list-style-type: none"> ○ By community ○ By incentive type • EV's/Clean cars • Lead-by-Example program <ul style="list-style-type: none"> ○ Mileage ○ State fleets EVs, ZEVs • EV infrastructure <ul style="list-style-type: none"> ○ By municipality & county ○ Emphasis on charging in EJ focus areas • Advances Clean Trucks (ACT) <ul style="list-style-type: none"> ○ RI adopting CA rule • Progress towards mobility plan (2021) • RIPTA ridership <ul style="list-style-type: none"> ○ By area and line • Vehicle miles traveled (VMTs) <ul style="list-style-type: none"> ○ By fuel type • Fuel usage <ul style="list-style-type: none"> ○ Consumption of gas and diesel 	<ul style="list-style-type: none"> • Lead-by-Example program: municipal fleets 	<ul style="list-style-type: none"> • Tracking private fleet emissions • Green Streets <ul style="list-style-type: none"> ○ Bike lane miles ○ Municipalities with Green Street ordinances
Electricity	<ul style="list-style-type: none"> • Clean energy <ul style="list-style-type: none"> ○ By type: solar, wind • Progress towards 100% clean energy standard • Energy efficacy <ul style="list-style-type: none"> ○ Heat pumps • Emissions avoided by energy efficacy • Utility cost & savings 	<ul style="list-style-type: none"> • Regional Greenhouse Gas Initiative Funding & Projects 	
Heating & Buildings	<ul style="list-style-type: none"> • Amount of incentives <ul style="list-style-type: none"> ○ Solar and heat pump programs ○ Funding distributed ○ By demographic ○ Recipient type 	<ul style="list-style-type: none"> • Cost of conversion <ul style="list-style-type: none"> ○ RISE Engineering 	<ul style="list-style-type: none"> • Fossil fuel to electric conversions <ul style="list-style-type: none"> ○ Complete vs partial conversions

	<ul style="list-style-type: none"> • Number of energy audits (RISE program) <ul style="list-style-type: none"> ○ Low vs moderate income ○ By sector • Fuel usage <ul style="list-style-type: none"> ○ Oil, gas, electric • Oil, propane, and natural gas customers 		
Workforce & Education	<ul style="list-style-type: none"> • Green Jobs (clean energy sector jobs) <ul style="list-style-type: none"> ○ Demographics of workers • Union training programs with a clean energy focus • Job conversions <ul style="list-style-type: none"> ○ Legacy fossil fuel to renewable <ul style="list-style-type: none"> ▪ By salary comparison 	<ul style="list-style-type: none"> • Students trained in climate literacy 	
Resilience & Carbon Sequestration	<ul style="list-style-type: none"> • Jobs for infrastructure <ul style="list-style-type: none"> ○ Resilience focused work • Protected land • RIIB Municipal Resilience Program (MRP) <ul style="list-style-type: none"> ○ Participating communities ○ Actions taken ○ Funding distributed from RIIB 	<ul style="list-style-type: none"> • Land use, land use change, and forestry (LULUCF) • Hazard Mitigation Plan (HMP) <ul style="list-style-type: none"> ○ Communities ○ Progress ○ Funding ○ Actions taken • Resilient <u>Rhody</u> <ul style="list-style-type: none"> ○ Progress ○ Actions taken 	<ul style="list-style-type: none"> • Communities with climate change or resiliency committees or staff • Blue carbon environments • Areas restored <ul style="list-style-type: none"> ○ Wetlands
Climate Change Impacts	<ul style="list-style-type: none"> • Weather <ul style="list-style-type: none"> ○ Precipitation ○ Temperature (heat) ○ Sea level rise 		
Environmental Justice	<ul style="list-style-type: none"> • Apprenticeship demographics <ul style="list-style-type: none"> ○ Just transition jobs ○ By salary & community 	<ul style="list-style-type: none"> • Flood plains by demographics 	
Other			

EC4AB REPORT
TO EC4 JUNE
2022

Proposed Categories of
Metrics

Need for the State to
Establish Goals

Need for State Agency
Review of Data Sources

Need for 3 People to be
Appointed