

RENEWABLE ENERGY MARKETS PANEL DISCUSSION

# WORKSHOP: GLOBAL IMPACTS OF EVOLVING INTERNATIONAL ENERGY STANDARDS



**Kyla Aiuto**

GHG Protocol Secretariat,  
World Resources Institute  
(WRI)



**Alex Pennock**

Senior Manager, Standards,  
Center for Resource Solutions  
(CRS)



**Adam White**

Secretary-General,  
RECS Energy Certificate  
Association

Monday, Sept. 18 • 10:00 - 11:30 AM



Renewable Energy  
Markets™ 2023

RECS

ENERGY CERTIFICATE

ASSOCIATION

# Energy Standards: Evolutions & Impacts

ADAM WHITE  
SECRETARY-GENERAL  
[a.white@recs.org](mailto:a.white@recs.org)

# RECS

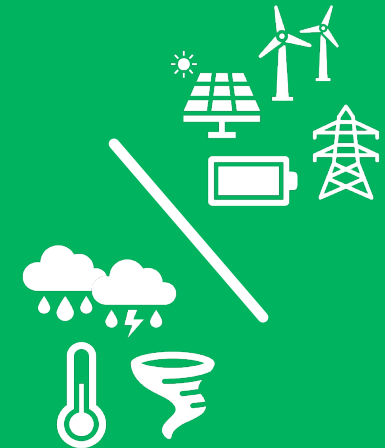
ENERGY CERTIFICATE  
ASSOCIATION



Over 100  
member  
organisations



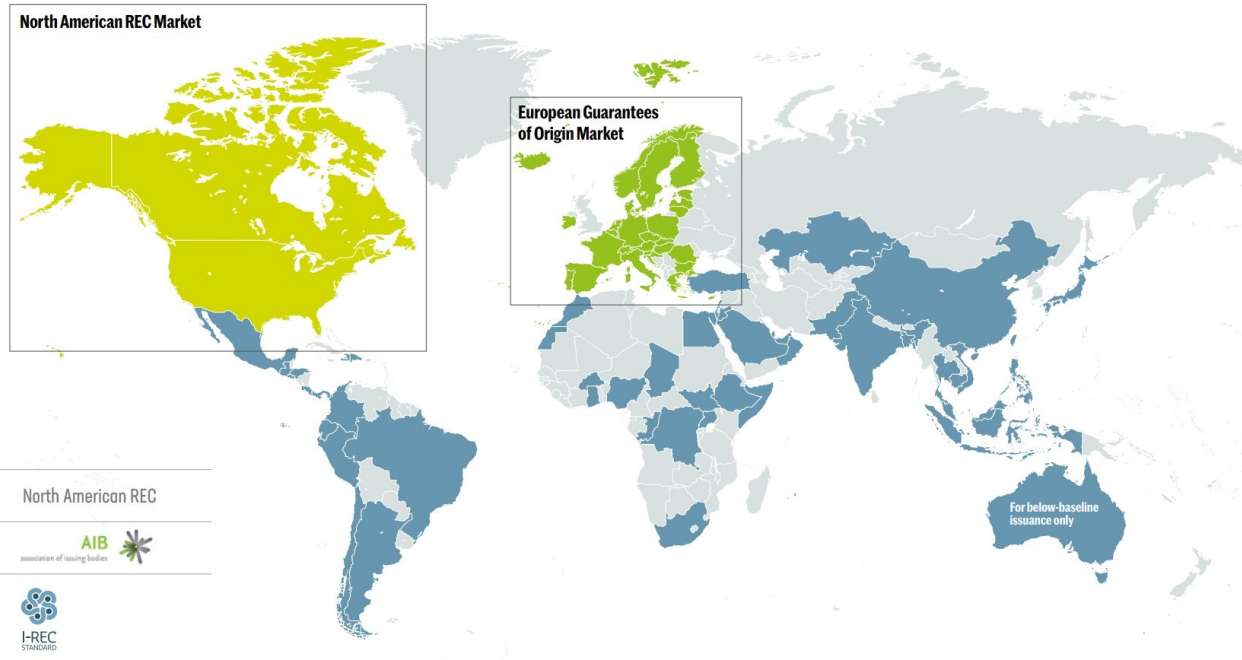
European focus,  
Global perspective



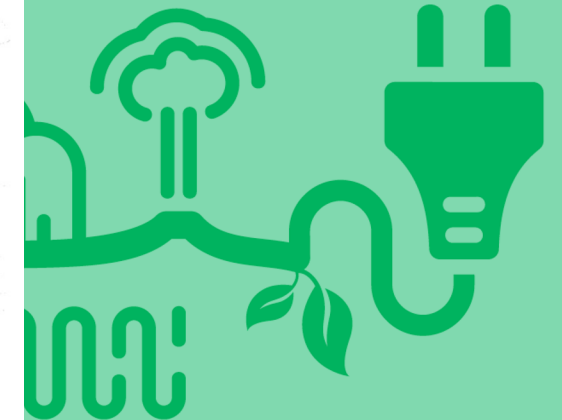
Tackle climate  
change,  
accelerate  
renewables

# EAC Markets

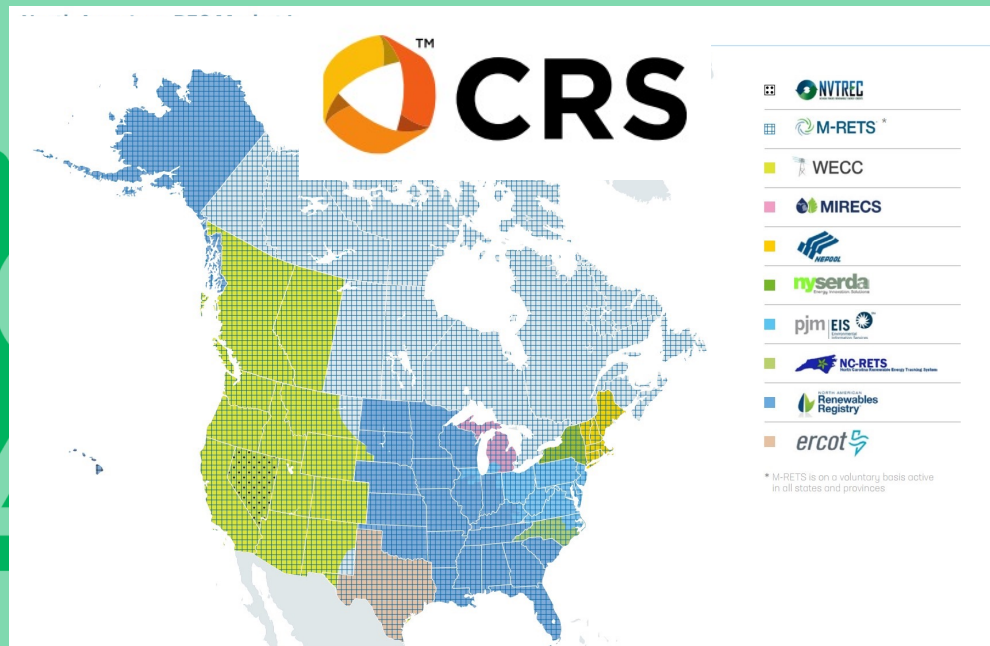
## Voluntary Energy Attribute Certificate (EAC) Markets around the world



International EAC Markets



# N American Markets



- Voluntary
- Compliance/Mandatory - RPS
- State-level legislation
- Federal recognition (FTC/EPA)
- Case law recognition

# The Int. Attribute Tracking Standard



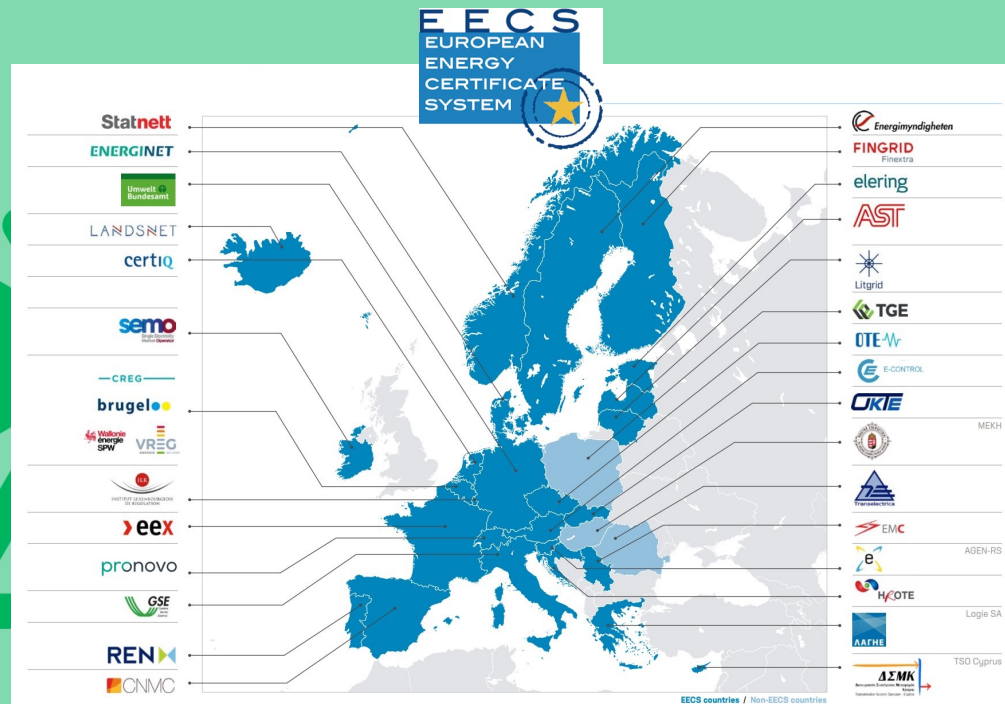
- Codes e.g. I-REC(E)
- Code managers
- Issuers
- Registry operators
- Platform operators
- Labelling authorities
- Adding countries

# Europe – EU law



- Renewable Electricity/Energy Directives
- European Standard CEN EN 16325
- Internal Electricity Market Directive
- RFNBO (Green Hydrogen) delegated act
- Corporate Sustainability Reporting Directive
- Green Claims Directive
  
- Future RED-4!

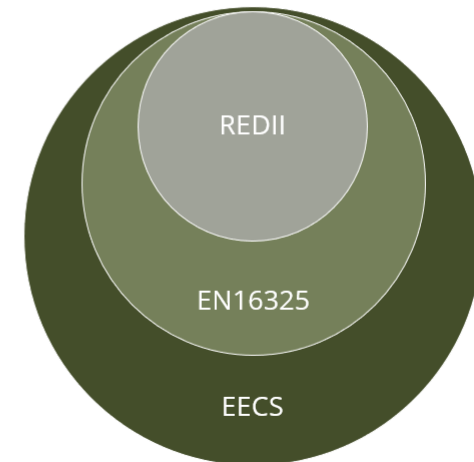
# Europe - EECS & AIB



## Guarantees of origin

### Framework

1. GOs are for disclosure - legislation
2. Reliable GO system - mandatory standard
3. Efficient and reliable GO system - voluntary standard





RECS

ENERGY CERTIFICATE

ASSOCIATION

Thank  
you!

ADAM WHITE  
SECRETARY-GENERAL  
[a.white@reco.org](mailto:a.white@reco.org)

# INTERNATIONAL

# STANDARDS

# FOR PURCHASE CERTIFICATION AND RECOGNITION



**Alex Pennock**

Senior Manager, Standards and  
Technical Assistance



# Center for Resource Solutions

Nongovernmental Organization (NGO) creating policy and market solutions to advance sustainable energy since 1997.



- Expert assistance
- Renewable energy and climate policy
- Renewable Energy Markets annual conference
- Green-e® certification for suppliers and users of renewable energy, renewable fuels and carbon offsets in the voluntary market

# Third-Party Environmental Standards

An extra layer of verification, environmental quality, consumer protection, and customer-facing communication

- Compatible with and different from tracking systems
- Check claims made by generators, not just their generation numbers
- Screen facilities against sustainability criteria developed with stakeholder input
- Demonstrate impact of RE purchasing
- Provide additional / individual auditing, recourse, safe harbor
- Make and verify claims that are relevant to customers
- Use a logo to demonstrate commitment
- Demonstrate WRI GHGP compliance
- Often cited by other reporting standards

# Green-e® Climate, Energy and Renewable Fuels

Carbon offsets, renewable electricity and EACs, and biomethane use

- Energy develops standards and appendices for specific electricity markets
  - Currently available for 5 markets
  - 2-3 more being developed under the new Green-e International Standard
- Climate is global in scope already
- Renewable Fuels is US-only



<https://www.green-e.org/about/references>

# EKOenergy

## Renewable electricity and EACs, district heating and biomethane use

- Program of Finnish Association for Nature Conservation
- Each energy type has one standard available globally upon request
- Part of certification fee goes to fund new RE project development



[www.ekoenergy.org](http://www.ekoenergy.org)

# Country-Specific Standards

Smaller programs tailored to their markets' specific interests, e.g.:



<https://www.naturemade.ch>



Bra Miljöval

<https://www.bramiljoval.se>

# Recognition and Reporting Standards

Demonstrate that goals are properly set and met

- Measure and disclose GHG emissions, RE use, other types of performance
- Track and publish year-on-year improvement
- Qualify for a logo to use on a building or website
- Demonstrate leadership to customers and oversight bodies
- Understand risks, and allow investors to also
- Prepare for mandatory disclosure



# CDP



# RE100

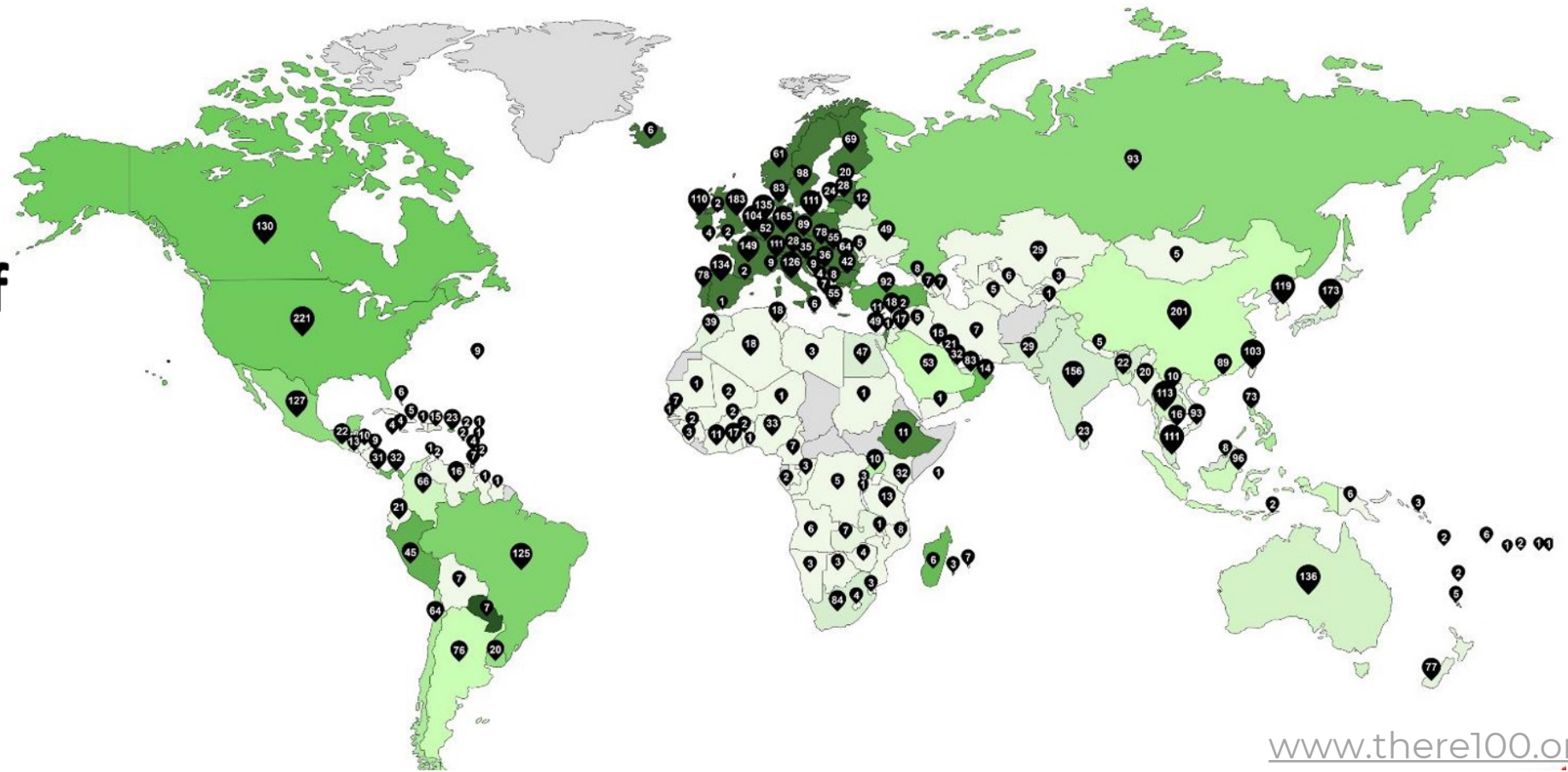
CLIMATE GROUP  
RE100

## Global footprint of RE100 members

# Number of members reporting operations

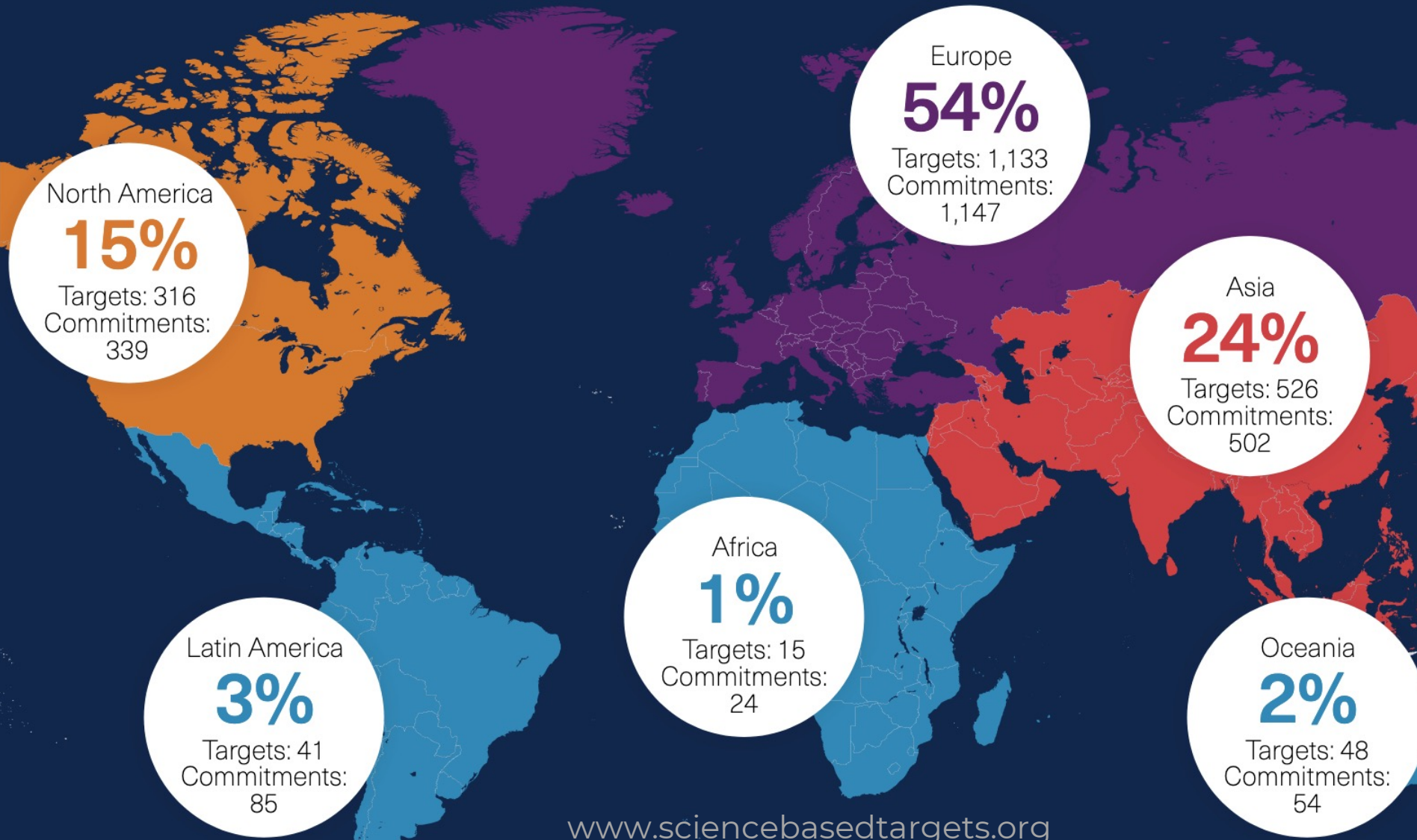
Share of renewable electricity

0% 100%



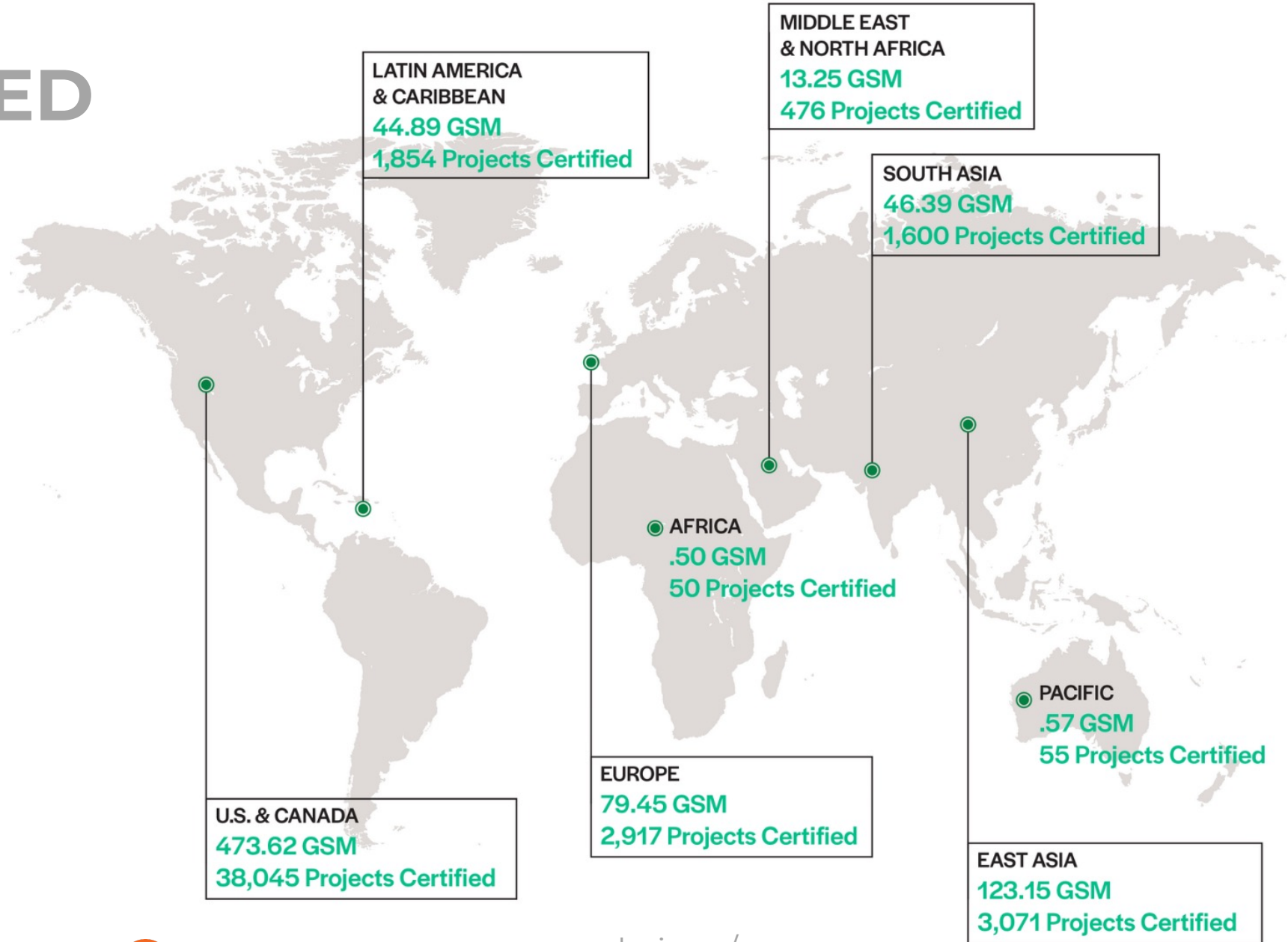
[www.there100.org](http://www.there100.org)

# Science-Based Targets initiative



[www.sciencebasedtargets.org](http://www.sciencebasedtargets.org)

# LEED



# Contact

## Alex Pennock

SENIOR MANAGER, STANDARDS AND TECHNICAL ASSISTANCE

**[alex.pennock@resource-solutions.org](mailto:alex.pennock@resource-solutions.org)**

415.561.2100



[www.resource-solutions.org/events](http://www.resource-solutions.org/events)

# Q&A



# GHG Protocol at REM 2023

## Workshop: Global Impacts of Evolving International Energy Standards

Kyla Aiuto, World Resources Institute

• September 18, 2023

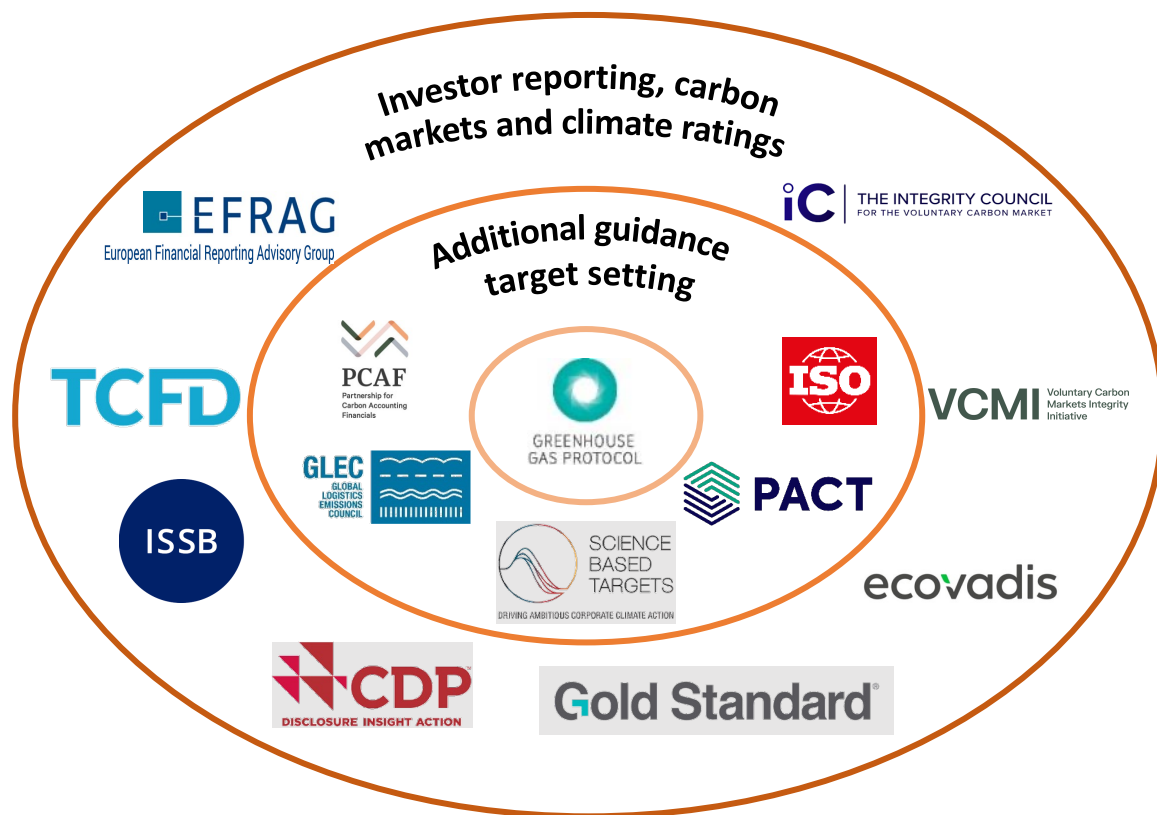


WORLD  
RESOURCES  
INSTITUTE



# GHG Protocol serves as the foundation of most climate programs

NOT EXHAUSTIVE



30

Standards, guidance documents, calculation tools, and online training materials released since 2004

90%

of Fortune 500 companies using GHG Protocol's Standards to calculate emissions

330+

Cities reporting to the CDP explicitly name the GHG Protocol's GPC as their primary emissions inventory methodology (2022)



# Emergence of climate-disclosure mandates referencing GHG Protocol

**Mandatory climate-related disclosure rules that directly require GHG Protocol standards are being finalized for implementation around the world beginning as early as Jan 1, 2024.**

Authorizing Body	Standard Name	Disclosure Type	# of Companies Impacted	Publication Date	Effective Date
International Financial Reporting Standard (IFRS) / ISSB	IFRS S2 Climate-related Disclosures	Voluntary; Mandatory when implemented at jurisdictional level	Companies operating in Australia, Japan, Brazil, Canada, South Korea, the UK + more	June 2023	Jan 1, 2024
European Commission / EFRAG	European Sustainability Reporting Standards (ESRS) S2	Mandatory	50,000+ public and private companies	August 2023	Jan 1, 2024
California Legislature	CA SB 253, Climate Corporate Data Accountability Act	Mandatory	5,000+ public and private companies	<i>September 2023; To be signed by mid-Oct</i>	2026

# Comparing scope 2 reporting requirements

In divergence with the GHG Protocol Corporate Standard (2004) and Scope 2 Guidance (2015), companies reporting in jurisdictions under implementation of IFRS S2 must report *only* their location-based scope 2 total and provide information about ownership of contractual instruments separately.

Authorizing Body / Standard Name	Dual Reporting	Market-Based	Location-Based
ISSB / IFRS S2 Climate-related Disclosures	No	Contractual instruments allowed to be reported separately (not part of inventory)	Required
European Commission / ESRS S2	Required	Required	Required
California / CA SB 253	TBD by 2025	TBD by 2025	TBD by 2025
GHG Protocol Corporate Standard + Scope 2 Guidance	Required	Required	Required

# Other sessions at REM 2023 on GHG Protocol scope 2 updates

TODAY, September 18<sup>th</sup>, 2023  
3PM – 5PM

**Pre-Conference Workshop:  
Identifying Renewable Energy  
Market Consensus on Updates to  
Market-based Scope 2**

Room: SOUTH AMERICAN AB

Tuesday, September 19<sup>th</sup>, 2023  
11AM – 12PM

**Renewable Energy Accounting for  
Scope 2 in the Greenhouse Gas  
Protocol Updates Process**

Room: CONGRESSIONAL

# Thank you

## Contact information

### Scope 2 Inquiries:

**Kyla Aiuto**      [kyla.aiuto@wri.org](mailto:kyla.aiuto@wri.org)

**Michael Macrae**      [michael.macrae@wri.org](mailto:michael.macrae@wri.org)

**Elliott Engelmann**      [elliott.engelmann@wri.org](mailto:elliott.engelmann@wri.org)

### Media/General Inquiries:

**Sarah Huckins**      [sarah.huckins@wri.org](mailto:sarah.huckins@wri.org)

