

Going Beyond Scopes 1 & 2

**Engaging Your Supply Chain, Customers, and Employees
in Renewable Electricity Procurement**

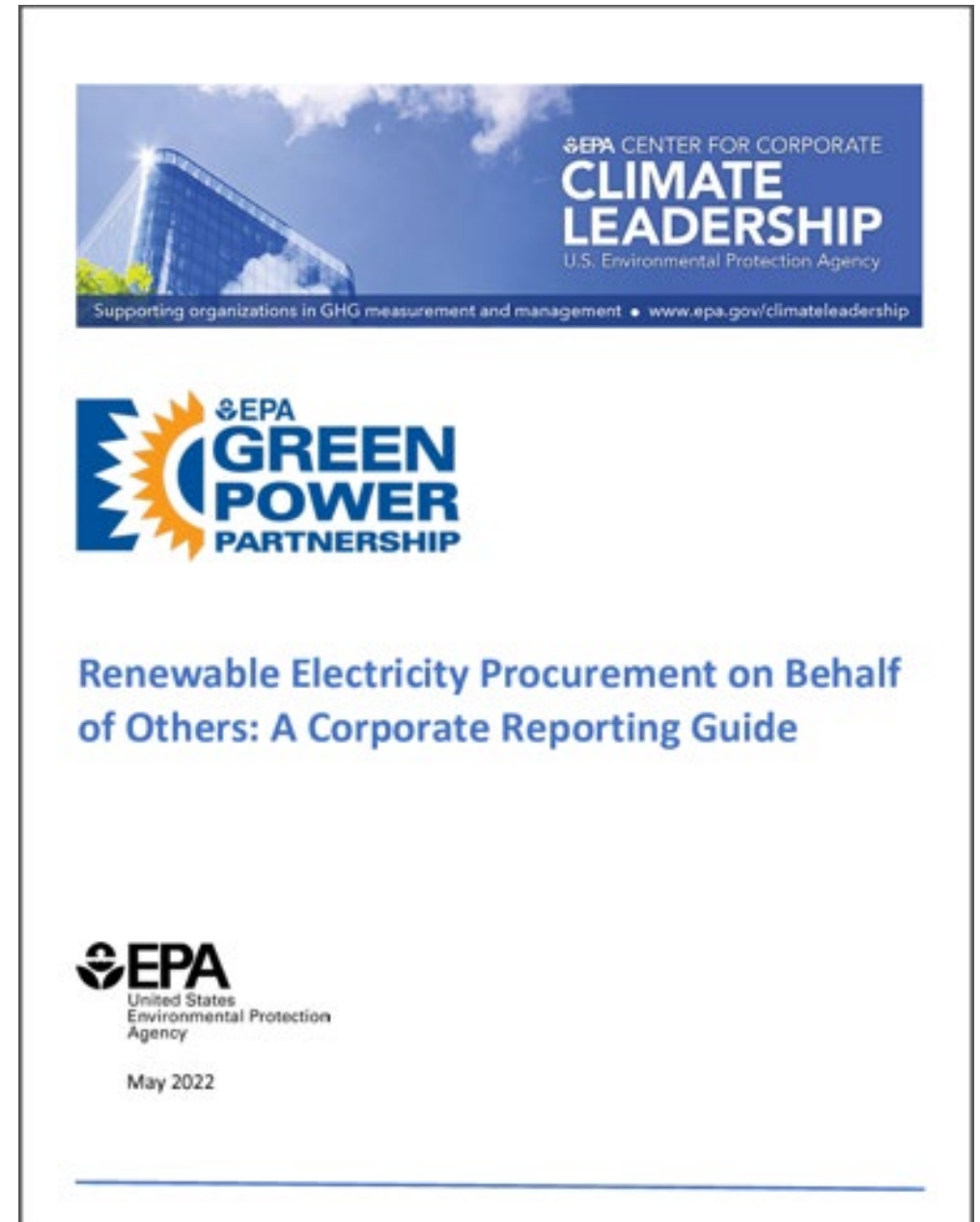
Washington DC – September 2023

Welcome

Introduction to Today's Topic

EPA White Paper

Renewable Electricity Procurement on Behalf of Others: **A Corporate Reporting Guide**



Our Panel



Erica Logan

Director, Sustainability
Criteria Development

Global Electronics Council



Briana Amoroso

Manager, Energy &
Climate Practice

3Degrees



Tom Raymond

Director of Environmental
Sustainability

Hormel Foods



GLOBAL
ELECTRONICS
COUNCIL

Sustainability for a Connected Future



LEVERAGING EPEAT FOR PURCHASING: DECARBONIZING IT AND SOLAR SUPPLY CHAINS.

Erica Logan, Global Electronics Council
Renewable Energy Markets (REM™) Conference
September 20, 2023



OUR PURPOSE

The **Global Electronics Council® (GEC)** is a mission driven not-for-profit that collaborates to achieve a world of only sustainable electronic products and services.

Founded in 2006, GEC is an **independent, impartial nonprofit** that advances sustainable electronics by leveraging the power of the purchaser.

GEC manages **EPEAT**, a global Type 1 ecolabel, recognized by ANAB (ANSI National Accreditation Board) as meeting the standards defined by ISO 14024: Environmental Labels and Declarations.



Largest Selection of More Sustainable Electronics



COMPUTERS &
DISPLAYS



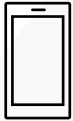
IMAGING
EQUIPMENT



SERVERS



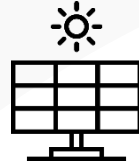
NETWORK
EQUIPMENT



MOBILE
PHONES



TELEVISIONS



PHOTOVOLTAICS

EPEAT is recognized by the U.S. Federal Government in its [Recommendations of Standards, Specifications, and Ecolabels for Federal Purchasing](#)

More than US \$2 billion spent on EPEAT registered products annually.

EPEAT Sustainability Impact Criteria



Climate

Reducing greenhouse gas emissions in the manufacturing supply chain and product use.



Sustainable Use of Resources

How products are designed for reuse and recycling, and which ones responsibly address packaging, water, and waste.



Chemicals of Concern

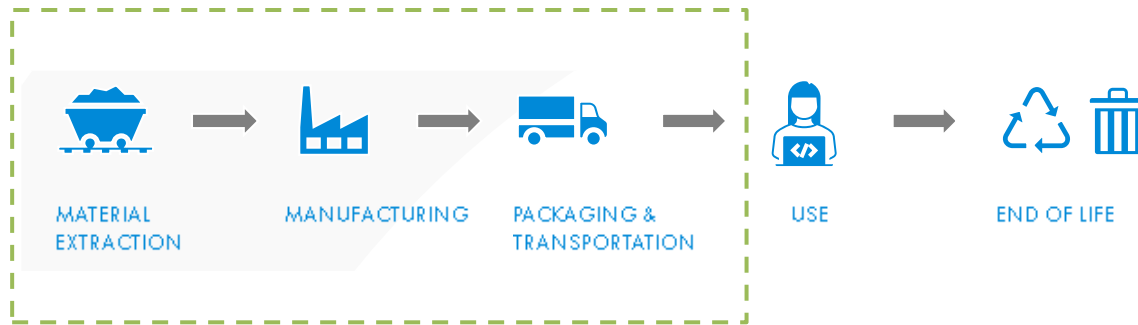
Eliminating the use of toxic chemicals that are hazardous to human health and the environment.



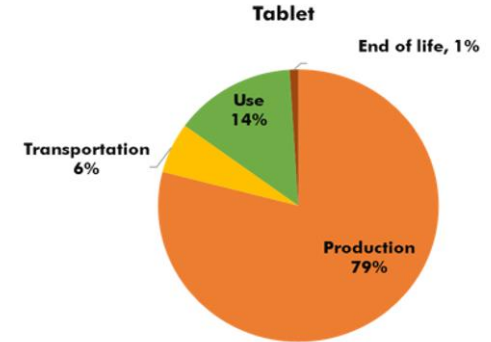
Corporate ESG Performance

The responsible sourcing of materials, fair labor practices, and worker health and safety in the electronics supply chain.

GHG Emissions for ICT Products

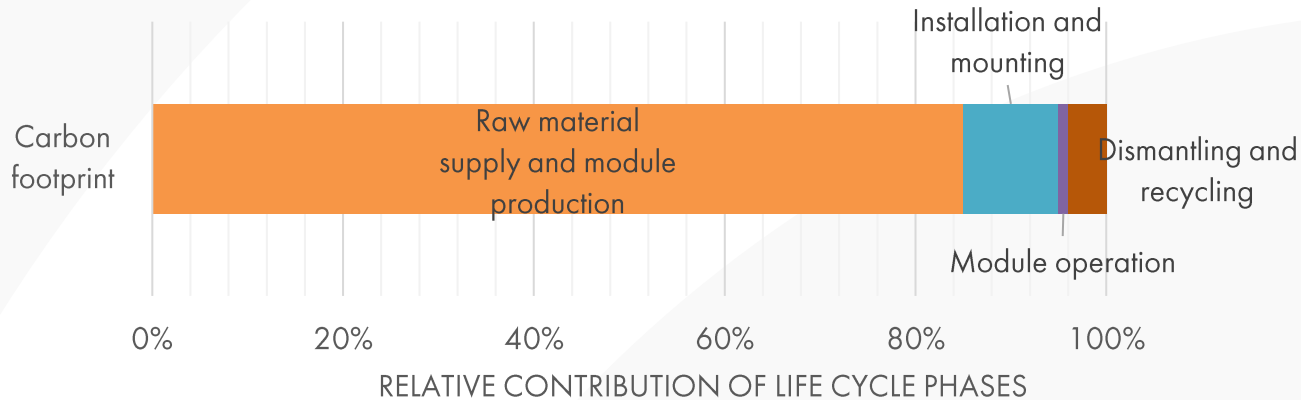


- 77% of total GHG emissions from the electronics industry are due to supply chain activities (*World Economic Forum, 2021*)
- Contribution of upstream manufacturing to overall GHG emissions is significant, particularly for portable products





Photovoltaic Module GHG Emissions



Embodied (supply chain) carbon or GHG emissions from solar panels varies widely.

Manufacturing processes account for > 50% of the lifecycle climate impacts (CO₂ equivalents) of solar installations, and as much as 80% for some modules

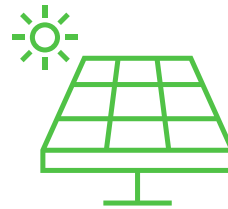
Decarbonizing the Supply Chain with EPEAT



- GEC recognizes the imperative of addressing climate impacts NOW!
- Two EPEAT initiatives aimed at accelerating progress to reduce green house gas emissions with an emphasis on decarbonizing the supply chain



EPEAT Climate+
Designation for IT products



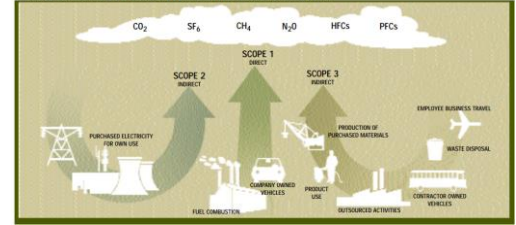
EPEAT for Solar
With Low Carbon Thresholds

EPEAT Climate Criteria



- Measure carbon/GHG emissions to understand impacts
 - Product carbon footprint(s), and
 - Corporate GHG inventory
- Establish and report on targets to reduce GHG emissions in alignment with best available climate science
 - Manufacturer operations, and
 - Supply chain
- Implement best practices for decarbonization
 - Manufacturing energy efficiency
 - Renewable electricity sourcing, and
 - Product energy efficiency

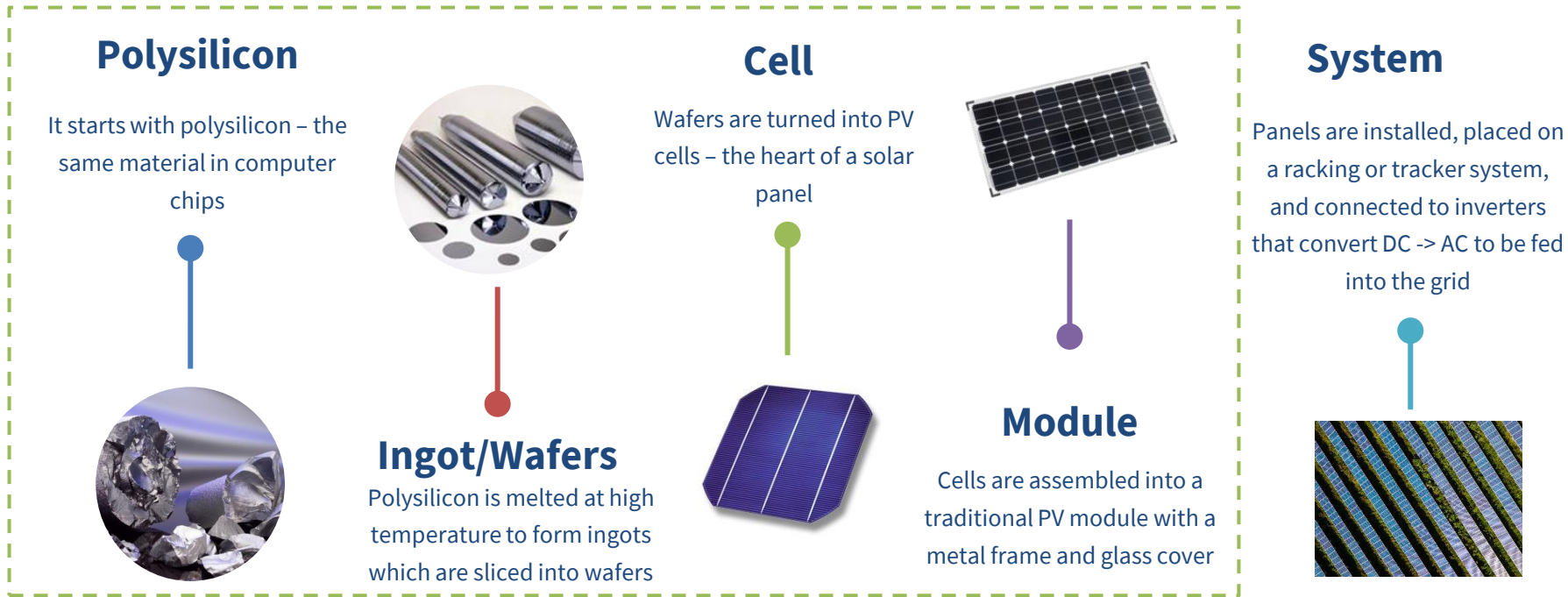
FIGURE 3. Overview of scopes and emissions across a value chain



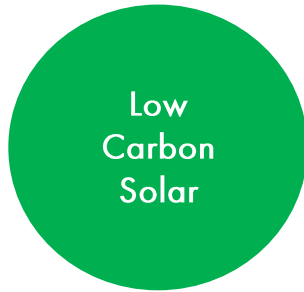
New EPEAT PV Low Embodied Carbon Criteria



Reflects carbon emissions along a module's manufacturing supply chain as determined through life cycle analysis.

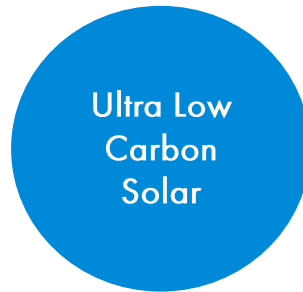


EPEAT Low Carbon Solar Criteria



Required: The embodied carbon of the PV module shall be equal to or less than 630 kg CO_{2e}/kWp.

~20% below IEA global average data



Optional: The embodied carbon of the PV module shall be equal to or less than 400 kg CO_{2e}/kWp.

Best in class lowest reported emissions



Optional: Primary life cycle inventory data underlying alternative GWP coefficients shall be publicly available.

Contact Information

Erica Logan

Director, Sustainability Criteria Development

Global Electronics Council

elogan@gec.org

GEC website: GEC.org

EPEAT Registry: EPEAT.net



3DEGREES

Going Beyond Scopes 1 & 2: Renewable Electricity Procurement

PRESENTED BY:

Briana Amoroso,
Manager, Energy & Climate Practice

September 20, 2023

The logo for 3Degrees, featuring the number '3' in orange and 'Degrees' in grey, with a small orange circle at the end of the word. A vertical line is positioned to the right of the logo.

3Degrees™

OUR MISSION

We make it possible for businesses and their customers to take urgent action on climate change.

Certified



Corporation

3Degrees™

INTERNATIONAL CLIMATE IMPLEMENTATION CONSULTING

PPAs & Renewable Energy Services

*Optimized
renewable energy
procurement
strategies*

- + Power purchase agreements enable big strides to be made toward achieving scope 2 targets
- + Renewable procurement options such as utility green tariffs and green retail supply diversify renewable portfolios
- + PPA performance monitoring and EAC management streamline reporting tasks
- + Strategies to address electricity use in your supply chain



8.1GW+

*global transactions
executed*

90+

*renewable projects
contracted*

300+

*Renewable energy advisory
& implementation
engagements completed*

67+

*countries where we buy, sell,
or consult on clean energy*

GOING BEYOND SCOPES 1 & 2

3Degrees can address all scopes of emissions

SCOPE 1 SOLUTIONS

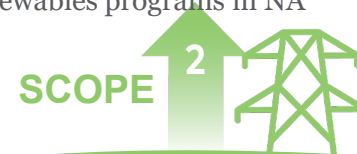
- + Emissions reduction and removal projects to address residual emissions
- + Green Gas for corporates including options assessment and GPAs
- + Goal setting
- + Implementation services
- + Transportation decarbonization
LCFS, electrification/conversion cost analysis, RNG, fleets



Direct emissions—sources owned or controlled

SCOPE 2 SOLUTIONS

- + Renewable energy options assessment
- + Renewable energy procurement strategy
- + Global unbundled EACs
- + Onsite Renewables
- + PPAs and vPPAs globally
- + Utility voluntary renewables programs in NA



Indirect emissions—from purchased electricity

SCOPE 3 SOLUTIONS

- + Emissions reduction and removal projects to address residual emissions
- + PPA Aggregations
- + Transportation decarbonization
LCFS/electrification, RNG, fleets



Indirect emissions—supply chain, transportation...etc.



CONSULTING SERVICES

across Scopes 1, 2 & 3

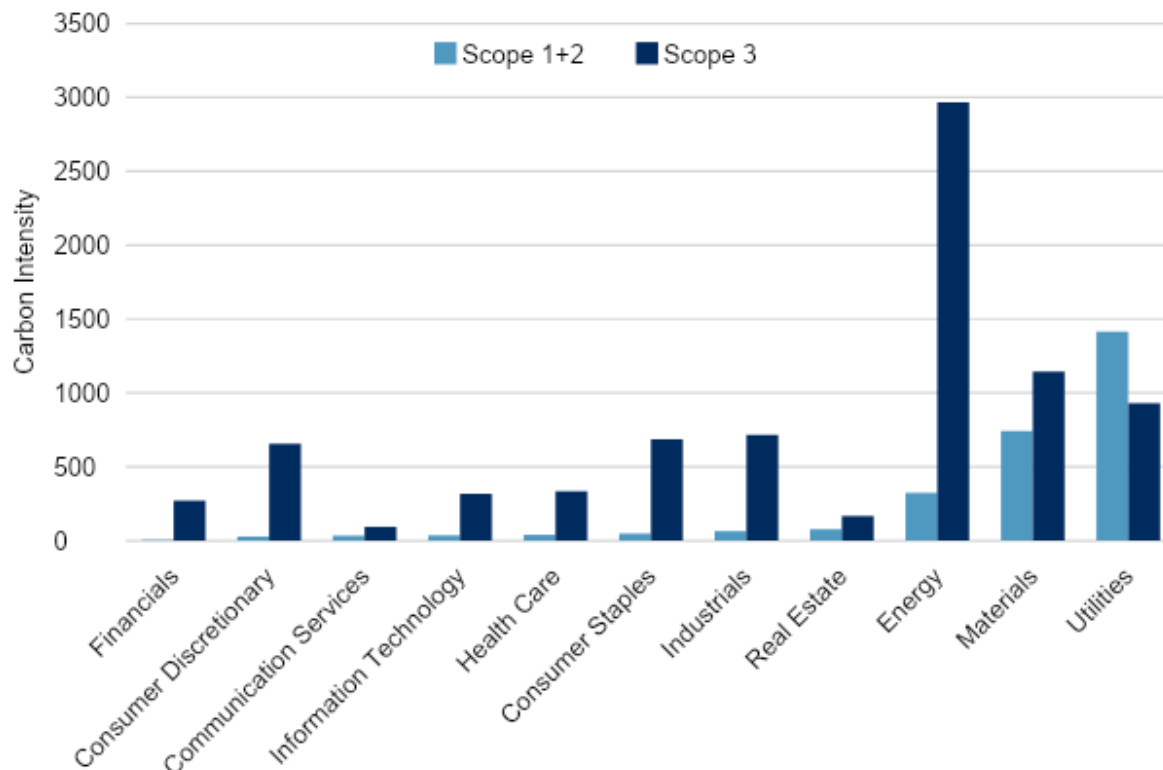
- + Energy assessments
- + Scenario planning
- + Carbon consulting
- + Disclosure and reporting
- + Scope 3 action plans
- + Value chain interventions
- + Climate technology advisory

Measure, Plan, Reduce across all scopes and **Compensate** for what remains

GOING BEYOND SCOPES 1 & 2

State of scope 3 emissions for most organizations

Most organizations' scope 3 emissions make up >90% of their total GHG emissions inventory



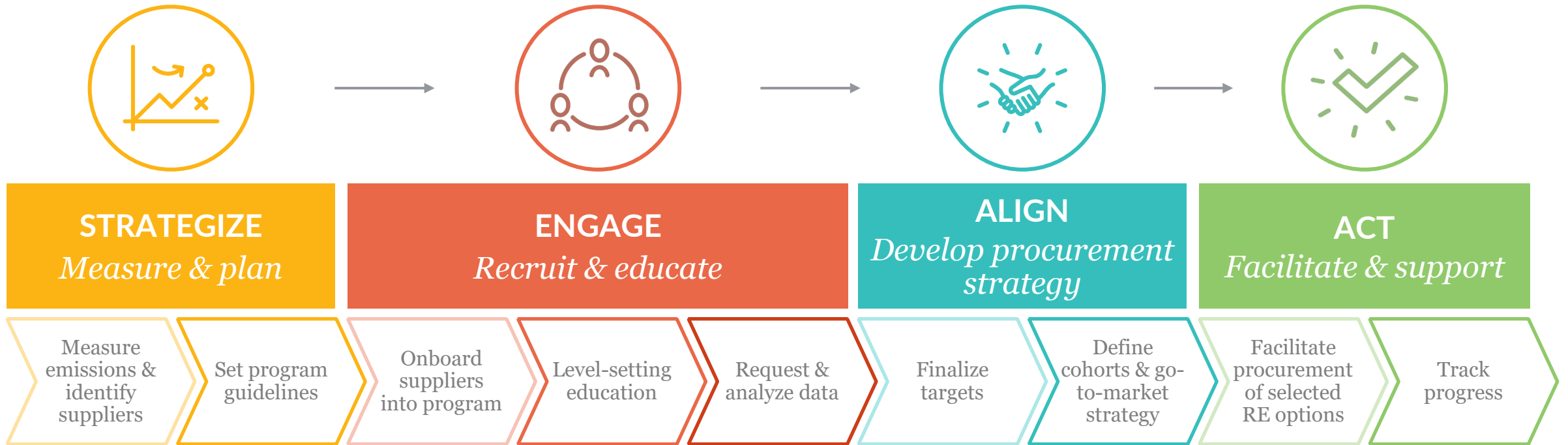
*Carbon intensity is measured in MTCO₂/avg. unit of production as of Dec 2020.
Source: S&P Global*

- + Many companies have:
 - + Taken action to address their scope 2 electricity emissions
 - + Set targets for scope 3 reductions
- + Much of the focus until now has been on collecting and improving scope 3 data (measurement)
- + Companies are realizing that it's time to act on scope 3 to meet targets

Now, how do you engage your suppliers to enable their renewable energy procurement & scope 2 reductions?

GOING BEYOND SCOPES 1 & 2

A successful supplier RE program can be broken down into key phases



Some key considerations:

- + How to segment suppliers / prioritize which ones to engage
- + How to encourage supplier participation / action (i.e., carrots and/or sticks)
- + Has your organization done what it's asking its suppliers to do?

Apple, Samsung, eBay and Sprint partner on supply chain renewable energy aggregation



THE BACKGROUND

Apple, Samsung Austin Semiconductor, eBay and Sprint decided to act jointly to purchase renewable energy in the ERCOT market

- + Mobilized around tackling Scopes 2 & 3 together
- + Common corporate renewable energy goals
- + Similar timing requirements
- + Desire to make an impact with their purchase

HOW WE HELPED



Sourced optimal project size, technology, location, economics and timing



Supported each company's unique needs



Ensured all four buyers were ready to move cohesively together: procurement through contract execution

Thank you

BRIANA AMOROSO

Manager, Energy & Climate Practice – Power Markets

bamoroso@3degrees.com



Tom Raymond

Inspired People.
Inspired Food.™

Director of Environmental Sustainability



Inspired People.
Inspired Food.



Special Recipe





Inspired People.
Inspired Food.



20  30
BY
CHALLENGE



SCIENCE
BASED
TARGETS

DRIVING AMBITIOUS CORPORATE CLIMATE ACTION





The people,
food, and
communities
that inspire us.



Panel Discussion

Audience Questions?