

# Cheap & Clean: Is it possible?

Presented by: Emilie Ditton, MMM Segment Leader, Pacific

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Electric

# Decarbonizing supply is just one side of the energy coin...



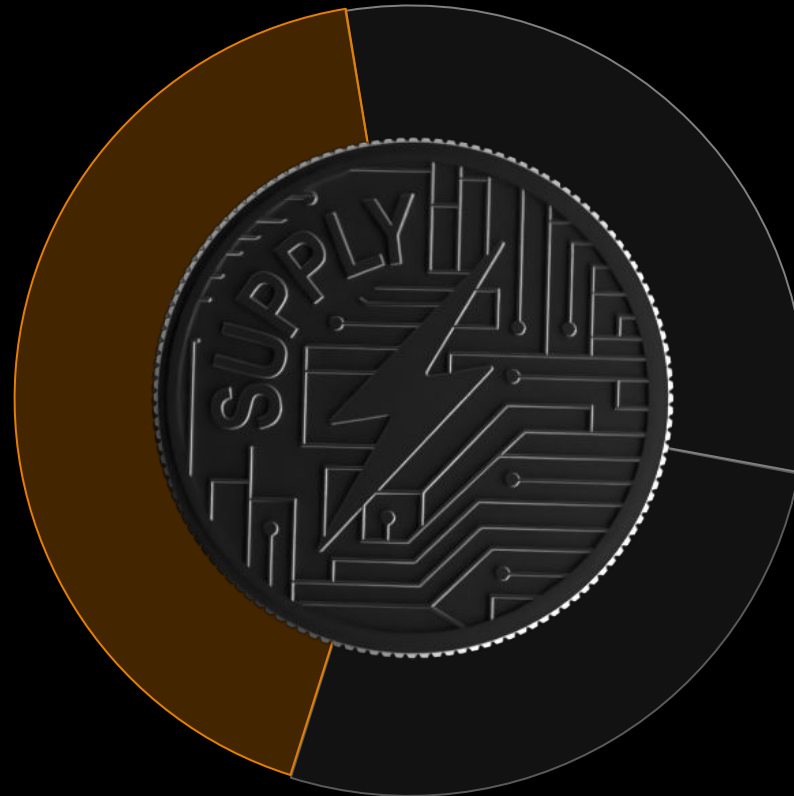
## Replace

energy supply

45%\*

**Offsite renewables purchasing**  
PPAs

**Onsite renewables generation**  
Solar, microgrid, storage



\*Contribution to net-zero energy by 2050

Internal

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# We need to look at both sides... and tackle **energy demand**



## Reduce

for efficiency and circularity

25%



## Electrify

processes

30%

\*Contribution to net-zero energy by 2050



Digitia + Electri = Sustainable

For Efficiency


For Decarbonization

Green and Smart Energy

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A worker wearing a white hard hat and a high-visibility safety vest is using a tablet device in a modern industrial setting. The background shows a large factory floor with overhead lights and structural beams.

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# 3 key steps



**STRATEGIZE**



**DIGITIZE**



**DECARBONIZE**



# Step 1: Define decarbonisation strategy to meet your ambition



			
<b>MEASURE</b> enterprise baseline	<b>CREATE</b> decarbonization roadmap	<b>STRUCTURE</b> Program & governance	<b>COMMUNICATE</b> commitment
<ul style="list-style-type: none"><li>• Enterprise Data Management Program</li></ul>	<ul style="list-style-type: none"><li>• 1.5° trajectory</li><li>• Decarbonization levers</li><li>• Roadmap &amp; actions</li></ul>	<ul style="list-style-type: none"><li>• Strategy</li><li>• Governance</li><li>• Program Funding</li></ul>	<ul style="list-style-type: none"><li>• Internal engagement</li><li>• External communication</li><li>• ESG Reporting &amp; Disclosures</li></ul>



## EQT is First Private Markets Firm to Set Science Based Targets

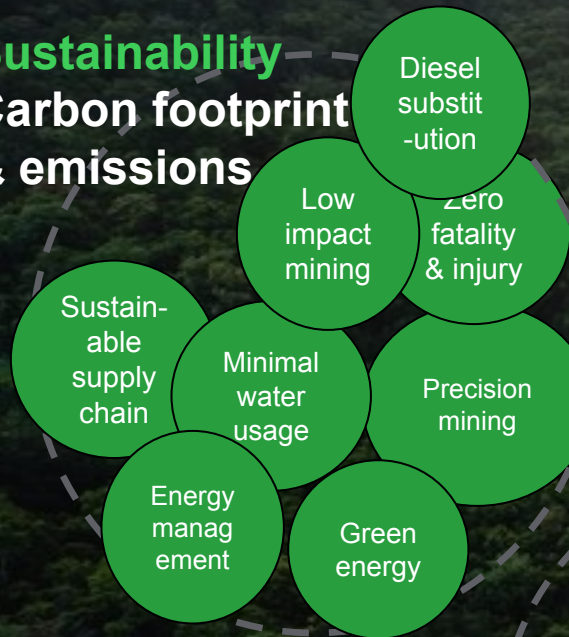
OCTOBER 14, 2021

- *EQT accelerates its journey to address climate change*
- *Schneider Electric partnered with EQT to develop SBT strategy and roadmap for implementation*



# Decarbonisation will require strategies in many different areas

## Sustainability Carbon footprint & emissions



Delivering  
sustainability,  
efficiency,  
reliability

## Efficiency

Production targets  
consistently with fewer  
resources & waste



## Resiliency

Responsiveness with  
visibility, Insight,  
Automation, Control

## Scope 1: 40 – 50% of emissions

- Haulage: Alternative fuels/electrification
- Operational efficiency
- Process electrification and optimisation

## Scope 2: 35% of emissions

- Alternative fuel sources
- PPAs
- Renewables capital investments

## Scope 3: 75 - 95% of emissions

- Decarbonising the supply chain

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## 60% improvement: 3 – 5 yrs

1. **Operational efficiency** - Improve & take your operations to top-quartile levels
2. **Green energy** - Renewable PPAs and investment in renewables capacity
3. **Sustainable fuels** - Switch to drop-in sustainable fuels.

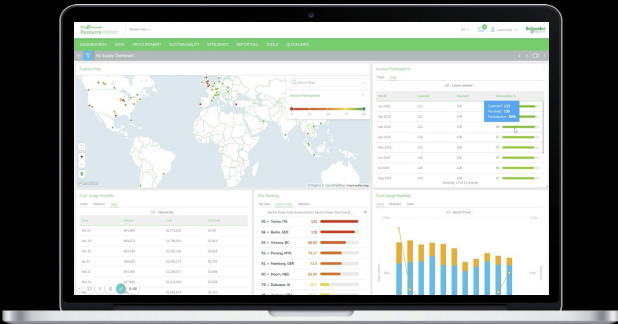


# Step 2: Digitize to create **visibility, intelligence and automation & a single source of truth** for energy, production and sustainability data



DIGITIZE

## Eco**truxure**™ Resource Advisor



**35B**

Digitized data points



**125M+**

Metric tons of CO<sub>2</sub> managed



**100k+**

Users across 140+ countries



**MONITOR**  
resource usage  
and emissions

- Energy usage, resource consumption & emission tracking
- Integrate with production control and operational monitoring
- Enable digital twin of power and process



**IDENTIFY**  
saving opportunities

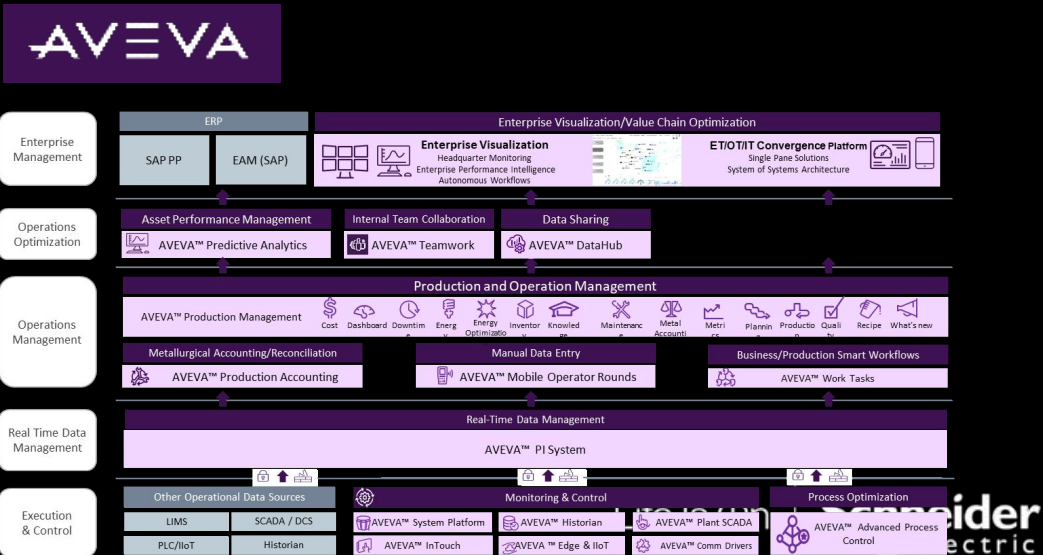
- Opportunity assessment for emissions & cost reduction



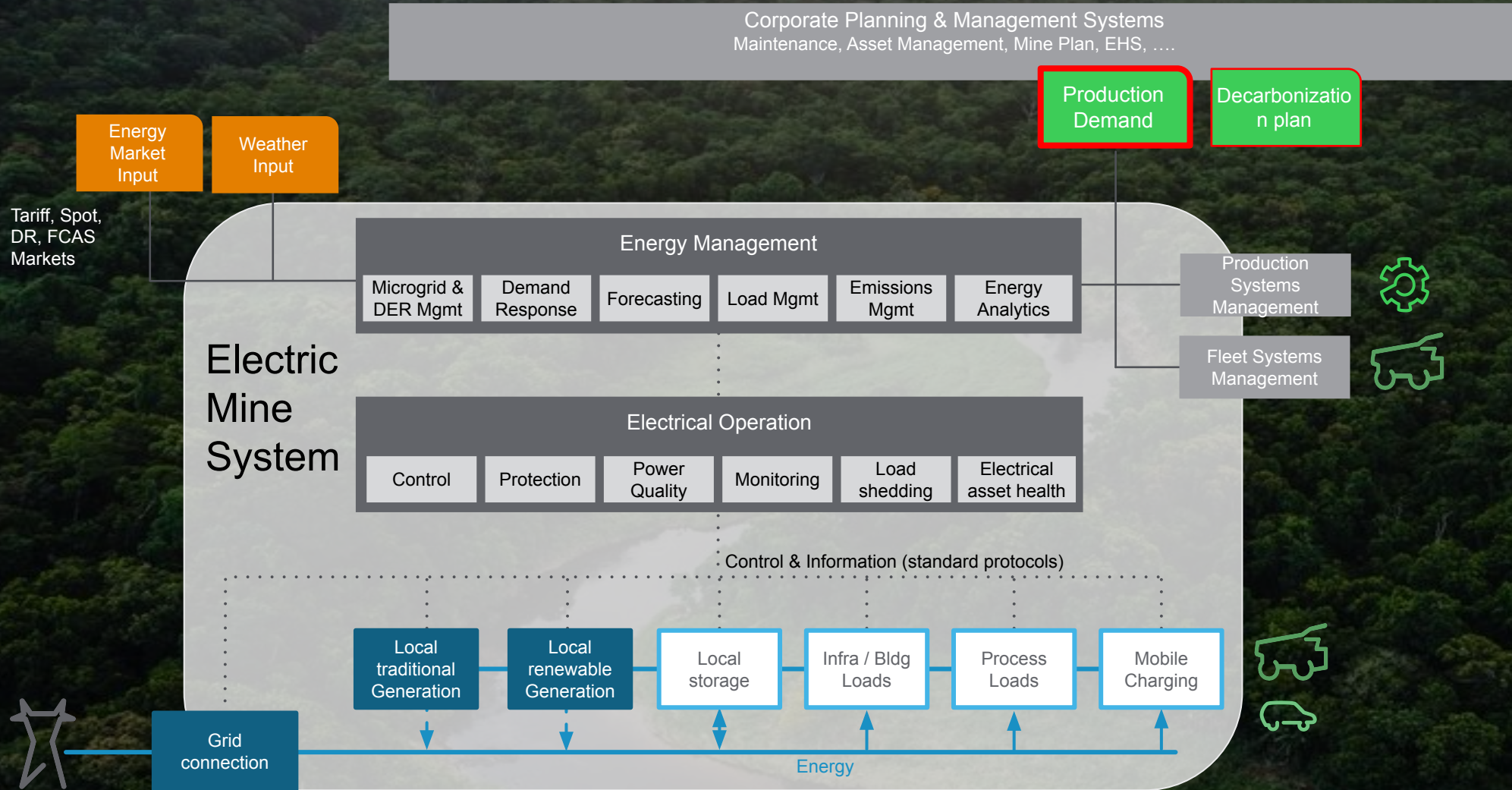
**ACT & REPORT**  
and benchmark  
progress

- Goal progress tracking
- Streamlined ESG reporting
- Peer benchmarking

Data, Insight, intelligence, Automation and Action



# Green Energy: A complex and digitally enabled system



✎ Planning & Design

🏗 Build

⚙ Operate & Maintain

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# Step 3: Execute decarbonization strategy with 4 key levers



**ELECTRIFY**  
operations

- Mobility
- Industry & Building processes
- Microgrid



**REDUCE**  
energy use

- Digitization
- Efficiency
- Optimization



**REPLACE**  
energy source

- Integrated sourcing
- Renewable energy
- Carbon credits



**ENGAGE**  
value chain

- Supplier Decarbonization
- Circularity
- Design & Build for Sustainability

# Supply Chain Decarbonization Based on Experience



9+ Supply Chain Programs

3+ TWh Electricity Demand Represented in Cohorts

2,000+ Engaged Supplier Companies

12+ Buyers' Cohorts in Process

## Introducing Materialise



Schneider-enabled Supplier Support

### Emissions Reductions Levers



**Gartner** Top 25 in 2023  
#1 Supply Chain Award







## STRATEGIZE

Climate, energy and energy domain expertise

Strategy, disclosure, communications



Target Setting & Benchmarking



Reporting (SBTi, CDP, etc.)



Decarbonization Roadmap

Digital Strategy



## DIGITIZE

Leading lifecycle software and digital services

Enterprise Sustainability

Cloud

EcoStruxure™  
Resource Advisor

**128M+**

Metric tons of CO<sub>2</sub> managed



## DECARBONIZE

No. 1 in energy management

Replace

**Zeigo™** Power  
by **Schneider Electric**



**16GW+**

PPAs advised with our clients<sup>1</sup>

Power Purchasing Agreements



EcoStruxure  
Microgrid Operation

Electrify



Power infrastructure and optimization expertise



EV Solutions

Reduce

- Unified Operating Center
- Data Management Platform
- Demand Side Management
- Microgrid Management
- Energy Mgmt & Control Systems
- DER Management



Power Logic  
Power Meters



Ecostruxure  
Process Expert

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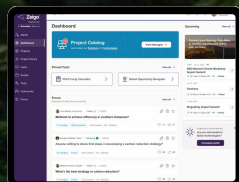
**Schneider Electric**

Global Energy Market & Sustainability Analysis



by **Schneider Electric**

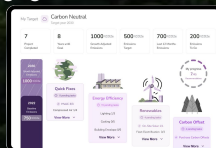
- Clean Technology Education & Connection
- Carbon Offsets Markets
- Renewable Energy Markets



Scope 3 Decarbonization & Supply Chain Engagement



by **Schneider Electric**



- Carbon tracking
- Decarbonization roadmap & marketplace
- Built for small/medium companies/suppliers

- Scope 3 assessment
- Implementation roadmap
- Supplier engagement program

Asset Optimization and Insight

- EcoStruxure Power Monitoring Expert
- EcoStruxure Energy Hub
- Ecostruxure Microgrid Advisor
- Ecostruxure Plant Advisor
- EcoStruxure Augmented Operator Advisor
- EcoStruxure Maintenance Advisor



Lifecycle software

**etap**

Electrical Design

**AVEVA**

Design, build, operate and maintain



# Thank You!



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