

Appendix 7 - Global Stakeholder Workshop Details



GLOBAL STAKEHOLDER WORKSHOP PARTICIPANT LIST

**Wednesday 5 February (8:15 AM to 5:00 PM) and
Thursday 6 February 2020 (8:30 AM to 5:00 PM)**

The Pendry Hotel, 550 J Street, San Diego, California USA

ORGANISATION	PROFESSIONAL CATEGORY (SELF-IDENTIFIED)
Advisory Committee on Protection of the Sea	Academic, researcher or scientist Technical expert Government and non-government representative
Alfred Wegener Institute Helmholtz Centre for Polar and Marine Research	Academic, researcher or scientist
Allseas	Industry expert
Amundsen Science, University Laval	Academic, researcher or scientist
Arkar	Researcher
BGR	Contractor - General
Blue Globe Solutions	Industry expert Technical expert
Centre for Applied Research at NHH	Academic, researcher or scientist
CIIMAR	Academic, researcher or scientist
Colorado School of Mines	Academic, researcher or scientist
Conservation International	Academic, researcher or scientist Conservationist
Cook Islands Seabed Minerals Authority	Government and non-government representative
CSA Ocean Sciences	Academic, researcher or scientist
CSA Ocean Services	Contractor - General
DHI Water & Environment Inc.	Industry expert Technical expert
Duke University	Academic, researcher or scientist
Embassy of Costa Rica in Jamaica	Government and non-government representative
EMEPC	Industry expert
Equinor Energy AS	Industry expert
ERIAS Group	Technical expert

ORGANISATION	PROFESSIONAL CATEGORY (SELF-IDENTIFIED)
Federal Institute of Industrial Research Oshodi, Lagos, Nigeria	Academic, researcher or scientist
Federal University Birnin Kebbi, Kebbi State, Nigeria	Academic, researcher or scientist
Florida State University	Academic, researcher or scientist
Geology and Coastal Management Division, MFMRD	Government and non-government representative
Ghent University	Academic, researcher or scientist
Global Oceans	Contractor - CCZ Contractor - General
Government of Nauru	Government and non-government representative
IDUM	Technical expert
Institute for Advanced Sustainability Studies (IASS)	Academic, researcher or scientist
Interoceanmetal Joint Organization	Academic, researcher or scientist Contractor - CCZ
ISA LTC	Interested stakeholder
iSeaMC	Industry expert
Maersk Supply Service	Interested stakeholder
Mineral Resources Department	Government and non-government representative Interested stakeholder
Ministry of Energy	Government and non-government representative
Monterey Bay Aquarium Research Institute	Academic, researcher or scientist
National Oceanography Centre	Academic, researcher or scientist
National Oceanography Centre, UK	Academic, researcher or scientist
NORCE Norwegian Research Centre	Academic, researcher or scientist
Pacific Islands Development Forum	Industry expert
Permanent Mission of Ghana to the United Nations	Government and non-government representative Interested stakeholder
PIPA Conservation Trust	Conservationist
Scripps Institution of Oceanography, University of California, San Diego	Academic, researcher or scientist
SPC	Government and non-government representative
Steven Katona Consulting	Academic, researcher or scientist
Te Ipukarea Society	Government and non-government representative

ORGANISATION	PROFESSIONAL CATEGORY (SELF-IDENTIFIED)
Togo Mission to the United Nations New York	Government and non-government representative
UCSD	Academic, researcher or scientist
UCSD and NOAA	Academic, researcher or scientist
UK Seabed Resources	Contractor - CCZ
Universidad de Valparaiso	Researcher
University of California Santa Barbara	Academic, researcher or scientist
University of Gothenburg/NORCE	Academic, researcher or scientist Contractor - CCZ Researcher
University of Hawaii	Academic, researcher or scientist
University of Leeds, UK	Academic, researcher or scientist
University of the West Indies	Academic, researcher or scientist
Woods Hole Oceanographic Institution	Academic, researcher or scientist
World Economic Forum	Industry expert



GLOBAL STAKEHOLDER WORKSHOP AGENDA

Wednesday 5 February (8:15 AM to 5:00 PM) and Thursday 6 February 2020 (8:30 AM to 5:00 PM)

The Pendry Hotel, 550 J Street, San Diego, California USA

Parlour 2 and 3 or via webinar

Hosted by DeepGreen Metals Incorporated (DeepGreen) and Nauru Ocean Resources Incorporated (NORI)

Facilitated by Strategic Earth Consulting

Join us for a special global stakeholder workshop to engage in a thoughtful and collaborative exploration into sourcing battery metals from ocean nodules and provide guidance on NORI's program to assess environmental and social impacts

Metal production today generates a host of serious environmental and social issues. And yet, we will need to extract hundreds of millions of tonnes of virgin metal this century. Is sourcing metals from ocean nodules a better alternative for the planet and its people?

DeepGreen and NORI invite stakeholders to collaboratively explore the opportunities and challenges of collecting deep sea nodules as a source for metals and transitioning to a green society, and to learn about and provide feedback on DeepGreen's proposed Environmental and Social Impact Assessment (ESIA) program for collection in the Clarion Clipperton Zone (CCZ).

FORMAT An interactive forum involving a multidisciplinary group of experts, scientists, policy makers and conservationists.

DAY 1 - WEDNESDAY, FEBRUARY 5 WHY COLLECT NODULES FROM THE CCZ SEABED?

8:15 AM TIME	Sign in and be seated ITEM	DETAIL	SPEAKER
		Please sign in, collect your name badge and make yourself comfortable.	
8:30 AM	Official welcome and remarks	Workshop participants will be welcomed and introduced to DeepGreen leadership.	Gerard Barron, Chairman and CEO, DeepGreen
8:40 AM	Participant introductions	Participants will be provided with an overview of the workshop approach, confirm meeting agreements, and be invited to introduce themselves and to share their intentions for attending the workshop.	Strategic Earth Consulting
9:00 AM	Context and stakeholders	<i>Who has a stake in the future of the planet and our oceans?</i>	Dr Gregory Stone, Chief Ocean Scientist, DeepGreen
10:00 AM	Metal supply and demand in the 21st century	<i>How much more metal do we need? Can recycling help meet demand?</i>	Alex Laugharne, CRU
10:45 AM	MORNING TEA		
11:00 AM	Environmental and social impacts of virgin metal supply	<i>Where should metals for the green transition come from?</i>	Dr. Steven Katona, College of the Atlantic / Daina Paulikas
12:00 PM	International Seabed Authority's environmental requirements	<i>What are the relevant regulatory processes and the environmental obligations of contractors in the CCZ during the ESIA process?</i>	Wanfei Qiu, Programme Manager (Marine Environment), ISA
12:45 PM	Sponsoring state perspective	<i>What is the legacy of terrestrial mining in Nauru, and what does the future look like for Nauru?</i>	Margo Deiye (Nauru) Permanent Representative to the ISA
1:15 PM	CATERED LUNCH		
2:15 PM	Additional perspectives	<i>What are the major concerns with collecting nodules?</i>	Facilitated discussion led by Strategic Earth Consulting
3:45 PM	AFTERNOON TEA		
4:00 PM	DeepGreen	<i>What motivates us? How do we plan to evolve our business? What are our commitments?</i>	Gerard Barron, Chairman and CEO, DeepGreen
4:45 PM	Day 1 recap	Recap of day 1 and expectations for day 2.	Strategic Earth Consulting / Dr. Gregory Stone, Chief Ocean Scientist, DeepGreen
5:00 PM	Adjourn		
5:30 PM	INFORMAL DRINKS AND APPETISERS - SIDE BAR, 536 MARKET STREET BETWEEN FIFTH & SIXTH AVE, SAN DIEGO		

TIME	ITEM	DETAIL	SPEAKER
8:25 AM	Sign in and be seated	Please sign in, collect your name badge and make yourself comfortable.	
8:30 AM	Welcome and introductory remarks	Participants will be welcomed and provided with an overview of the workshop approach that reflects information shared and discussions on day 1.	Strategic Earth Consulting
8:40 AM	Deep sea environment in the CCZ	<i>What do we know and what do we not know about the abyssal plains environment in the CCZ?</i>	Larry Madin, Woods Hole Oceanographic Institution
9:10 AM	Deep sea nodule collection system	<i>How does it work? What type of impacts are expected?</i>	Tony O'Sullivan, Chief Development Officer, DeepGreen
9:40 AM	ESIA process	<i>What does a successful ESIA process look like?</i>	Dr. Jennifer Durden, National Oceanography Centre, Southampton
10:10 AM	MORNING TEA		
10:25 AM	DeepGreen's ESIA	<i>What are the key objectives? What does the work program look like?</i>	Dr. Michael Clarke, Environmental Manager, DeepGreen
10:55 AM	Environmental management	<i>With so many unknowns, how can we manage the impacts?</i>	Dr. Michael Clarke, Environmental Manager, DeepGreen
11:25 AM	Serious harm	<i>How do we define it and measure it? How do we avoid it? What can we accept as society?</i>	Dr. Jason Smith, Environmental Scientist, DeepGreen
12:30 PM	CATERED LUNCH		
1:30 PM	DeepGreen's key environmental studies	<i>What questions will we work to answer over the next three years? What new scientific knowledge do we expect to generate?</i>	Dr. Jason Smith, Environmental Scientist, DeepGreen
1:45 PM	Work Package 1 overview	<i>How are we assessing the sediment physical and biogeochemical properties?</i>	Professor Andrew Sweetman, The Lyell Centre, Heriot Watt University / Dr. Clare Woulds, University of Leeds
1:55 PM	Work Package 2 overview	<i>How are we assessing marine mammals, near-surface animals and birds in the CCZ?</i>	Dr. Adrian Flynn, Fathom Pacific
2:05 PM	Work Package 3 overview	<i>How are we assessing benthic biology? What does it look like?</i>	Dr. Daniel Jones, National Oceanography Centre / Dr. Thomas Dahlgren, University of Gothenburg / NORCE
2:15 PM	Work Package 5 overview	<i>What Specialist Technical Services are required for the ESIA's support studies?</i>	Brian Balcom, CSA Ocean Sciences Inc.
2:25 PM	Mooring and Plume Modelling	<i>What can we learn from ongoing physical and chemical oceanography studies and sediment plume modelling?</i>	Dr. Chris Kelly, CSA Ocean Sciences
2:35 PM	AFTERNOON TEA		
2:50 PM	NORI's Terms of Reference (ToR) and Scoping Report	<i>What are the core tasks and delivery methods? What are our initial priority topics and studies?</i>	Dr. Michael Clarke, Environmental Manager, DeepGreen
3:50 PM	Work Package 4 overview	<i>How are we assessing pelagic biology?</i>	Dr. Jeff Drazen, Department of Oceanography, University of Hawaii (Via webinar)
4:05 PM	Trust, transparency and commitment	<i>How can key stakeholders follow and engage with the ESIA process? What if we discover that serious harm is unavoidable?</i>	Gerard Barron, Chairman and CEO, DeepGreen
4:45 PM	Workshop recap and feedback form	Recap of workshop key discussions and next steps. Participants will be invited to complete a workshop feedback form to provide constructive feedback on their experience.	Strategic Earth Consulting
5:00 PM	Adjourn	Thank you for participating in today's workshop.	Gerard Barron, Chairman and CEO, DeepGreen

ZOOM WEBINAR LOGIN INFORMATION

Download Zoom: <https://zoom.us/download>

Find your local number to call in to the workshop: <https://zoom.us/j/avyXzmBWQ>

Zoom Help Center: https://support.zoom.us/hc/en-us?_ga=2.231433372.242581812.1580334970-303990915.1578592950

Please plan to join the webinar 10 – 15 minutes in advance of the meeting to allow time for troubleshooting.

DAY 1 - WEDNESDAY, FEBRUARY 5

8:15 AM – 5:00 PM PST

Join Zoom Meeting: <https://zoom.us/j/942924693?pwd=QWg5dHRGYzNNalhiUarVzVxT3prUT09>

Meeting ID: 942 924 693

Password: 194641

DAY 2 - THURSDAY, FEBRUARY 6

8:00 AM – 5:30 PM PST

Join Zoom Meeting: <https://zoom.us/j/516219759?pwd=azY4TndPTlIBVjFVbnAwUGp5OE8rZz09>

Meeting ID: 516 219 759

Password: 149425



Nauru Ocean Resources Inc. is a wholly owned subsidiary of The Metals Company. TMC is on a mission to source the minerals required for the clean energy transition by collecting polymetallic nodules from the Clarion Clipperton Zone of the Pacific Ocean

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