

# ICOE Session 6.2

## Moorings, Anchors, and Foundations

November 5, 2014

Moderator: Ryan Nicoll, PEng, MASc

[ryan@dsa-ltd.ca](mailto:ryan@dsa-ltd.ca)

+1 250 483 7207



NOVEMBER 4-6, 2014  
Halifax, Nova Scotia Canada

[ICOE2014CANADA.ORG](http://ICOE2014CANADA.ORG)



# Moorings for marine renewables

- Run of river
- Tidal/coastal
- Ocean current
- Ocean wave
- Offshore wind



NOVEMBER 4-6, 2014  
Halifax, Nova Scotia Canada

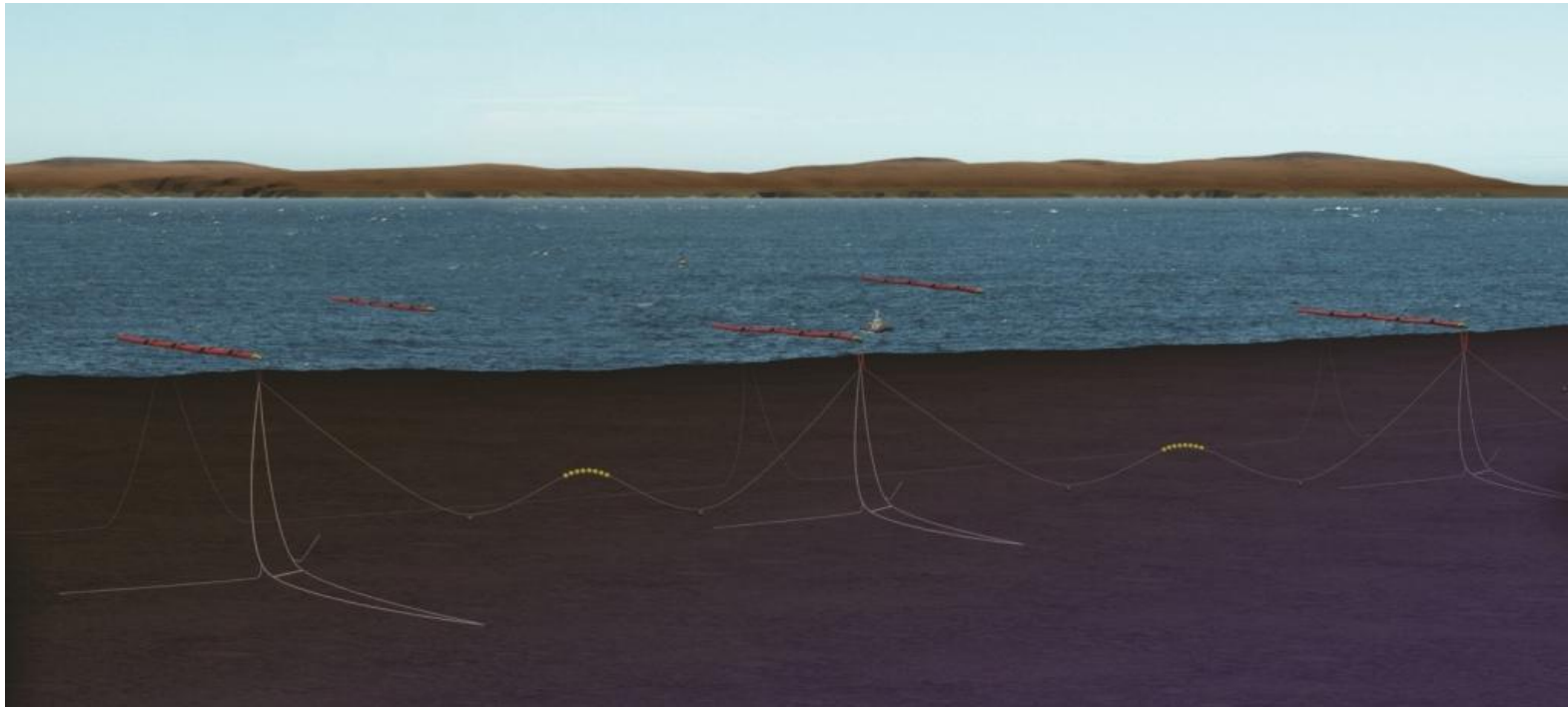
[ICOE2014CANADA.ORG](http://ICOE2014CANADA.ORG)



# Floating systems

- Varying water depths
- Varying water column placement
- Launch and recovery/O&M
- Reduced infrastructure compared to fixed structures







NOVEMBER 4-6, 2014  
Halifax, Nova Scotia, Canada

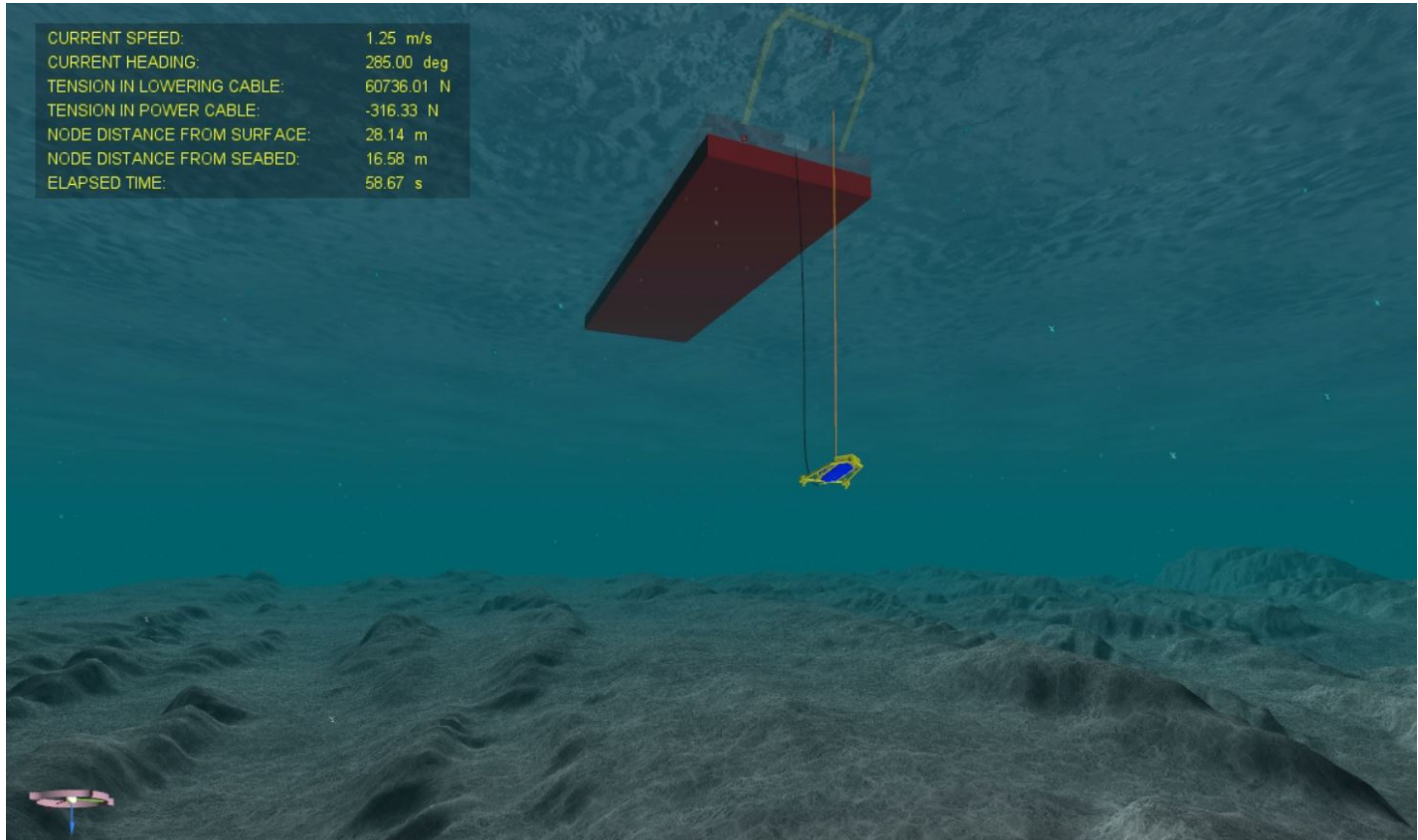
[ICOE2014CANADA.ORG](http://ICOE2014CANADA.ORG)





# FORCE

CURRENT SPEED:	1.25 m/s
CURRENT HEADING:	285.00 deg
TENSION IN LOWERING CABLE:	60736.01 N
TENSION IN POWER CABLE:	-316.33 N
NODE DISTANCE FROM SURFACE:	28.14 m
NODE DISTANCE FROM SEABED:	16.58 m
ELAPSED TIME:	58.67 s



NOVEMBER 4-6, 2014  
Halifax, Nova Scotia Canada

[ICOE2014CANADA.ORG](http://ICOE2014CANADA.ORG)





Ifremer

UNIVERSITY OF  
**EXETER**



NOVEMBER 4-6, 2014  
Halifax, Nova Scotia Canada

[ICOE2014CANADA.ORG](http://ICOE2014CANADA.ORG)

