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Offshore Cable Installation Overview Joel Whitman, SVP, Global Marine Group

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Group Structure

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Taiwan

Offshore Transmission Installation Considerations^{GLOBAL MARINE} GROUP

- > The coastal marine ecosystem is vast, diverse and irreplaceable
- > Limited experience with utility scale electrical infrastructure in the marine setting in the US
- > The marine environment is already home to many existing commercial uses
- > Common issues related to cable infrastructure construction and maintenance are largely the same whether one point-to-point cable or an entire system is being constructed.
- > Purpose built vessels and equipment designed specifically for offshore power cable are a byproduct of the European OSW industry to date.







Common OSW Cable Infrastructure

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Equipment: Trenching ROV

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- Jet trenching up to 3m in soil conditions ranging from 5 KPA to 100 KPA
- Mechanical chain cutting of soils up to 250 KPA
- Facilitates backwashing and back filling of seabed material.
- Accommodate flexible cables up to 250mm diameter.







Example Vessel: Global Symphony



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Array Installation vessel
130m length
Extensive 1,400m² deck space
Fitted with two WROV systems
Accommodates 105 persons







Example Technique: Shore End

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- Cable is "floated" through shallow water
- Crosses beach via HDD or trench depending on project design and permits
- Cable is then buried along the route to the specified depth







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Thank You

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