



API

MARINE

POWERED BY
MT POWER



Equipment Package

**DIESEL ELECTRIC
SOLUTION**

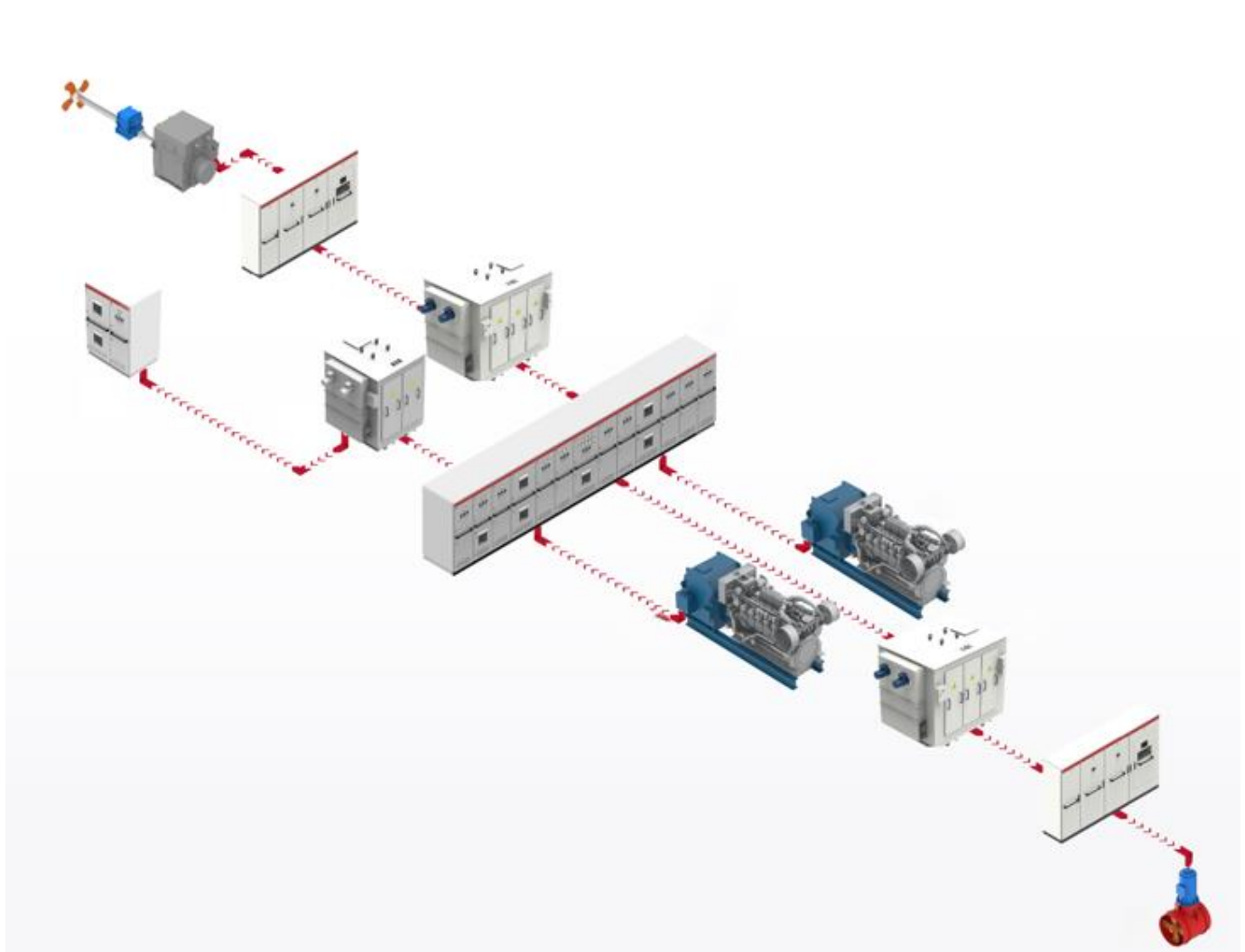
To:		From:	API Marine
Attn:		Signature:	
REV:	A	Date:	
Project	Hybrid System	Validity:	

This proposal describes the equipment package included in API Marine Limited scope of supply to be installed on Shallow Tug.

Scope of supply:

No.	Item	Specification	Qty
1	Main Genset	Cummins CCEC K50-DM, 1491kW@1800rpm, IMO3 ABB AMI 450L4L BAFTMS	3 sets
2	Electrical System DC-LINK 1000V	Battery DC/DC, 200KW	1 set
		Generator inverter AC/DC, ABB, 1400kW	3 sets
		PM Motor inverter DC/AC, ABB, 1000kW	2 sets
		Bow Thrust Motor inverter DC/AC, ABB, 200kw	4 sets
		Hotel inverter ABB, 400kW	2 sets
	AC switchboard	AC440V and AC220V	1 set
3	PM Propulsion Motor	970kW@ 1200rpm, RAMME or Editron	2 sets
4	Bow Thrust Motor	200kW@1200rpm, Editron	4 set

5	Battery	EVE, About 200kWh	1 set
5	Control System	PMS + AMS	1 set



Diesel-Electric Propulsion System