

ANNEX A

Digital Bunkering Projects

No	Project lead	Project collaborators ¹	Project Scope
1	Angsana Technology Pte. Ltd.	<ul style="list-style-type: none"> • Claritecs • Endress+Hauser (S.E.A.) • Kenoil Marine Services • VBunkers Tankers • Victory • Singfar International • SGLab 	<ul style="list-style-type: none"> • Develop secure and digitalise workflows for completion of bunkering documentations such as electronic Bunker Delivery Note (eBDN), conforming to applicable regulations and standards • Develop solutions for automated, secured transmission of bunkering data for business-to-business purposes and to MPA's digitalBunker@SG for regulatory reporting
2	Ascenz Solutions Pte. Ltd.	<ul style="list-style-type: none"> • DBS • Endress+Hauser (S.E.A.) • Golden Island Diesel Oil Trading • Jurong Port Universal Terminal • Socratra Singapore 	
3	Brightree Pte. Ltd.	<ul style="list-style-type: none"> • CBS Ventures • DBS • Emerson • Endress+Hauser (S.E.A.) • Equatorial Marine Fuel Management Services • ExxonMobil Asia Pacific • Hong Lam Marine • Oldendorff • Shell International Eastern Trading Company • UOB 	
4	BTS Pte. Ltd.	<ul style="list-style-type: none"> • Consort Bunkers • Endress+Hauser (S.E.A.) • Global Marine Transportation • Golden Island Diesel Oil Trading • Pacific International Lines • Vopak Terminals Singapore • SGLab 	
5	Bunkerchain Pte. Ltd.	<ul style="list-style-type: none"> • Ascenz Solutions • Brightree • Endress+Hauser (S.E.A.) • Fratelli Cosulich Bunkers Singapore • Global Energy Group 	

¹ Project collaborators includes bunker suppliers, bunker barge operators, bunker terminals, bunker traders, shipowners/operators, financial institutions, Mass Flow Meter providers, MarineTech companies, etc.

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		<ul style="list-style-type: none">• Global Marine Transportation• Gunvor Singapore• Hong Lam Marine• IHS Markit• Maersk Oil Trading• Shell International Eastern Trading Company• Singamas Petroleum Trading	
6	SGLab Pte. Ltd.	<ul style="list-style-type: none">• Angsana Technology• BTS• Kenoil Marine Services• Victory• VBunkers Tankers	<ul style="list-style-type: none">• Develop new hardware solutions for automated and secured transmission of the Mass Flow Meter data to MPA's digitalBunker@SG for regulatory reporting and third party applications for completion of electronic bunkering documentations
7	Vector InfoTech Pte. Ltd.	<ul style="list-style-type: none">• Global Marine Transportation	
8	Claritecs Pte. Ltd.	<ul style="list-style-type: none">• Angsana Technology• Kenoil Marine Services• Vopak Terminals Singapore	<ul style="list-style-type: none">• Develop digital solution to optimise terminal and bunker craft scheduling and utilisation