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1. INTRODUCTION

Gas hydrates are solid crystalline compounds in which gas molecules reside inside cages formed by hydrogen-bonded water molecules in a crystal lattice [1]. It is estimated that there are approximately 168 cubic feet of gas per 1 cubic foot of water [2].

Moreover, due to the decline in production of conventional natural gas, it has become necessary to start looking at producing unconventional natural gas [2]. In this light, Natural gas hydrates holds a great deal of potential for the future energy, as these contain energy double that of current recoverable worldwide fossil fuels [1]. Due to the considerable size of this potential resource, the production from gas hydrates can become a part of the world's energy portfolio [1].

This project is attempted to make a feasibility study and prepare a briefing package regarding the installation and construction of a new offshore facility and using technical and commercial viability to harvest the methane hydrates economically from oceanic deposits.

2. EXECUTIVE SUMMARY/ BUSINESS CASE

Capital Expenditure Request (CER)					
<i>Project Data</i>					
CER Number: MH17.			Commencement Date: 06 th December 2013.		
Title: <i>Ice-fire.</i>			Completion Date: 28 th December 2034.		
Project Category: Procurement and Construction of A New Offshore Facility.					
Location: Nankai, Japan (50 Km south-east of Japan Coast).					
Sponsor/Company: A ² Solutions+JOGMEC (Japan, Oil, Gas and Metals National Corporation).					
Total Estimated Cost: £ 847,490,080					
Expenditure Flow:					
<i>Duration</i>	Year (1)	Year (2)	Year (3)	Year (4)	Year (5)
<i>Cost</i>	£18,548,539	£5,024,299	£433,295,278	£4,888,113	£423,150
Business Team:					
<i>Summary Project Description</i>					
Constructing and installing of a new offshore facility [FPDSO(Floating, Production, Drilling, Storage and Offloading) Platform, Sub-sea pipelines and utilities) in the south-east coast of Japan in a safe and environmentally friendly manner to extract methane hydrate from oceanic deposits and then processing these deposits in order to produce natural gas at commercially viable rates.					
<i>Summary Project Benefits</i>					
IRR: 3%		Discount Rate: 6%		NPV: £102,880,184.31	
The NPV indicates that the company can financially benefit from this project. Moreover, this project provides the company with a special commercial case, to be a leading solution supplier and though making changes required for industrial projects while creating financial profits from this project.					

<i>Approvals</i>	<i>Signature</i>	<i>Date</i>
Project Manager:		
Accounting Managers:		
Accounting Assistants:		

FOR COMPLETE PACKAGE OF THIS PROJECT:
 CONTACT US BY EMAIL:
 contact@cleanscriptgroup.com OR
 FILL & SUBMIT OUR ENQUIRY FORM