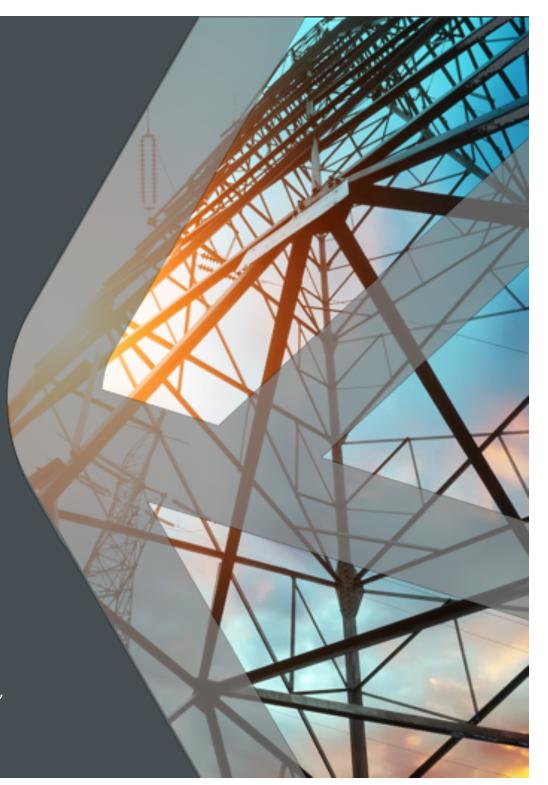


AGM

Presentation

Friday 30 November 2018

"Bridging the gap between today's use of resources and tomorrow's zero-emissions future"



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Domestic Activity

- Organisational Structure
- Revenue Model
- Bacchus Marsh
- Latrobe Valley
- Capital Management

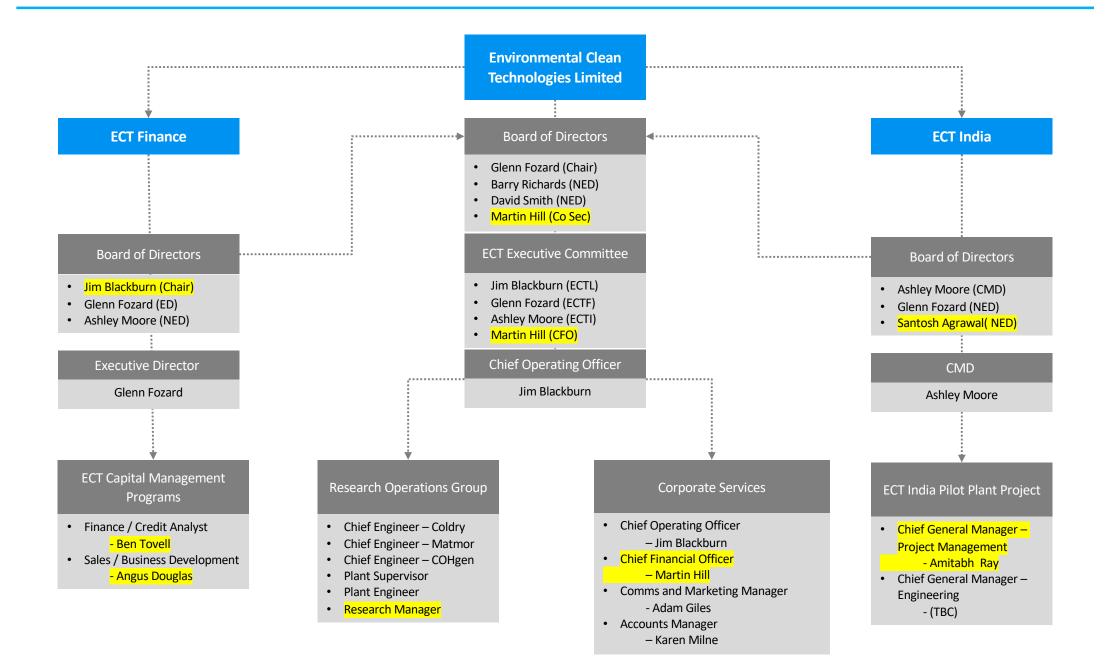


India Activity

- Project Engineering Update
- Commercial Terms
- Research Collaboration Agreement
- Pathway ahead

Organisational Structure







Summary of Revenue Mechanisms

- Direct sales of product:
 - e.g. Coldry fuel sales into the domestic multi-feedstock boiler market)
- ECT's share of licensing fees and/or royalties from the India SPV
 - 49% ECT, 25.5% NLCIL, 25.5% NMDC
- Project development fees
 - Project engineering
 - Project management
- Original Equipment Manufacture (OEM)
 - Fees for access to supply of proprietary plant and equipment
- Investment returns
 - Enhanced balance sheet structure and access to capital, ECT to consider direct investment in operating plants.



Coldry Capacity Targets

Stage of Development	Capacity	Status
Theoretical models	NA	Achieved
Lab Scale	<10kg, batch	Achieved
Test Scale	~5 tonne, batch process	Achieved
Pilot Scale	15,000 tpa, continuous, simulated waste heat	Pending
Commercial demonstration	170,000 tpa, continuous, waste heat integration	Target
Commercial scale	600,000 tpa +	Target
Industrial scale	1.8M tpa +	Target



Matmor Capacity Targets

Stage of Development	Capacity	Status
Theoretical models	NA	Achieved
Lab Scale	<10kg, batch	Achieved
Test Scale	~40kg/h, semi-continuous	Achieved
Pilot Scale	~1 tph, continuous (India Project)	Pending
Commercial demonstration	India Plant 1 (500 ktpa, billet steel basis)	Target
Commercial scale	India Plant 2 (2.0 mtpa)	Target
Industrial scale	India Plant 3, Global Plant 4, Global Plant 5 (6.0 mtpa)	Target

Bacchus Marsh



High Volume Test Facility – Site development and Upgrades

- Stage 1 and Stage 2 expansion completed FY2018
- Site footprint increased by 35% to provide for program expansion (product handling, storage and equipment testing)
- Enhanced R&D capability
 - Significant investment in testing and monitoring equipment and additional R&D program management resources
 - Review and restructure of core R&D programs in line with Coldry and Matmor advanced findings and overseas rulings
- OHS&E improvements
 - Safety signage, lighting, CCTV, security fencing, training and management process improvement
- Automation enhancements
 - Digital Control interface and data capture (PLC System) upgrades and integration
- Maintenance improvements
 - Maintenance schedules updated to match increase operating scale
- Technology scale-up testing & de-risking program
 - Coldry:
 - Pilot plant operating model scale increase from 5,000 to 15,000 tpa capacity (35,000 tpa target)
 - Enhanced drying temperature and pellet conditioning testing
 - Additive trials for and infrastructure upgrades
 - Matmor Test plant refurbishment
 - Ability to produce larger test samples for R&D trials in end applications
 - Enhanced feedstock supply capability to support Matmor Test Plant validation process

High Volume Test Facility Stage 3 & 4 Expansion

Stage 3: Dec 2018 – April 2019

- Target Capacity Up to 25,000 tpa
- Budget ~\$1.15-1.25m
- Status: Procurement & Construction

Stage 4: April 2019 – July 2019

- Target Capacity Up to 35,000 tpa
- Budget ~\$1.0m
- Status: Planning









Strategic partnerships:

- Calleja Group site & transport (Maddingley)
- EnergyAustralia coal supply and Project site partner (Yallourn)
- HiTech (QLD) and John Thompson Boilers boiler package equipment supplier and installation
- Jebsens 3rd party logistics
- Mecrus steam package operations and maintenance

Market development activity:

800 tonne trial at AKD Softwoods
Gippsland Abattoir trial program
Tasmania food processor trial program
Victorian food processor trial program
Victorian food processor trial program
First steam boiler package client (Gippsland)
First fuel supply client (Tasmania)



Markets

Small to medium volume:

- Consumers who need affordable utility grade heat to run their business.
- Timber, dairy and agriculture.
- Many switched to gas when the Morwell briquette plant closed, but with the increasing gas price, they need an alternative.
- Coldry is an ideal substitute and is more cost-effective than importing black coal from NSW or Queensland.

Large volume:

• Large consumers such as Loy Yang power station which need an affordable fuel to restart their boilers after a shutdown.

High-value downstream products like:

- PCI coal (the type used to generate heat in blast furnaces),
- Activated carbon (which has applications in water and air cleaning, food & beverage, medical and pharmaceutical industries), and;
- Hydrogen production.



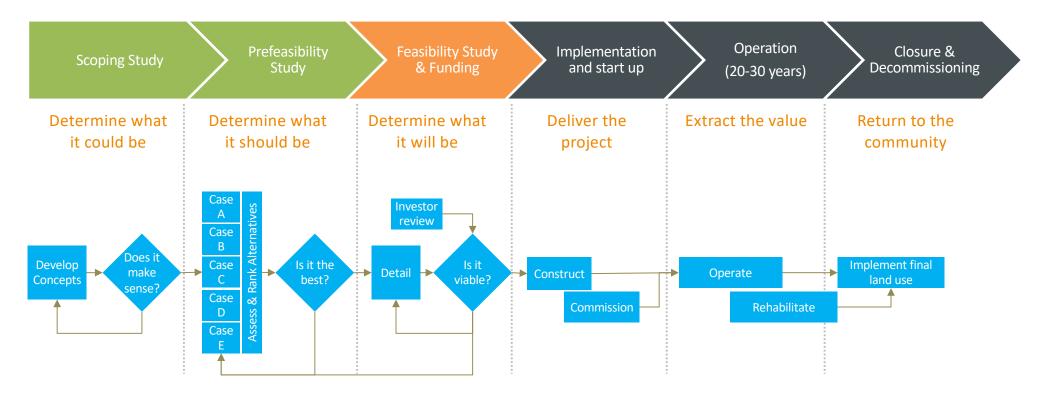
Coldry large-scale demonstration plant

- Capacity up to 600,000 tonnes per annum
- Feed material for high value conversion process
- Pre-Feasibility program completed:
 - Scoping study and selection phase
 - Economic Modelling
 - Market Study
- Feasibility program commenced:
 - Logistics and transport planning
 - Product specification testing for export grade
 - Site specific planning





Project Pathway





R&D Tax incentive

- Positive ruling received for the Coldry project in India
- Matmor 'Advance Finding and Overseas Ruling' application submitted and under review, results expected Q3 FY18.
- Allows financing of 43.5% of the eligible R&D expenditure, estimated to be approx. A\$10 million

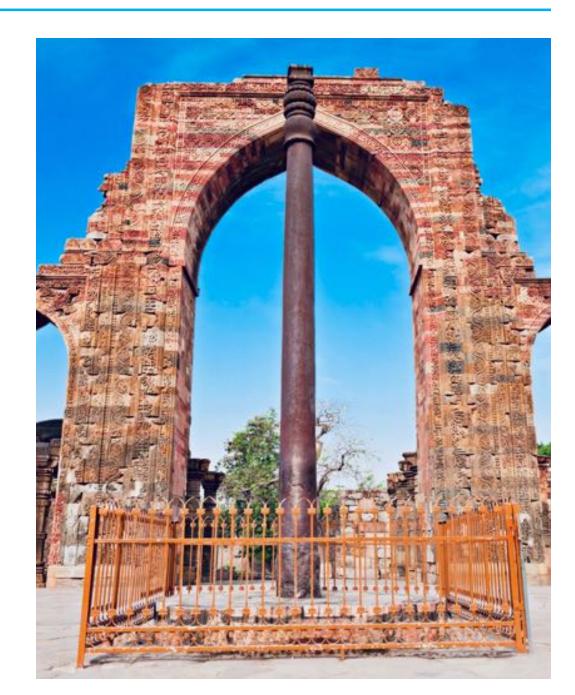
Equity Lending Facility

- Successful establishment of over \$14 million in loans
- Supported raise of ~\$4.04 million cash via options conversion
- Generated >\$1M in cash repayments to ECT



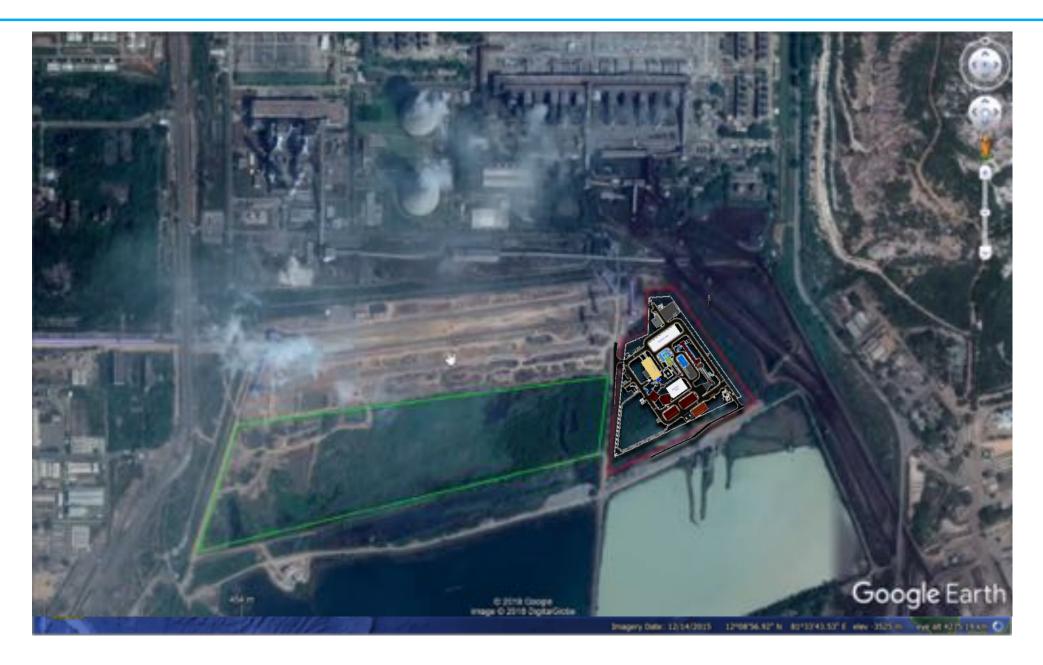
Overview

- Project Engineering Update
- Commercial terms
- Research Collaboration Agreement
- Project Pathway



Project Location – Tamil Nadu – Neyveli







- Process Flow Diagram
 - Block diagram
 - Materials balance
 - Reaction modelling / Energy balance
- Equipment Selection
 - Options analysis & selection
 - Specification development
- Electrical Systems
 - Power consumption analysis
 - Transformers & Distribution
 - Single line diagram
- Piping & Instrumentation Diagram
 - Process control assessment
 - Instrumentation identification
 - Process automation review
 - Shutdown & trip management

- Site Layout
 - Building identification
 - Process layout
 - 3D arrangement
- Schedule
 - Program overview
 - Detailed design assessment
 - Construction assessment
 - Capital expense estimate
 - 'Long lead' identification
 - Engineering discipline review by area

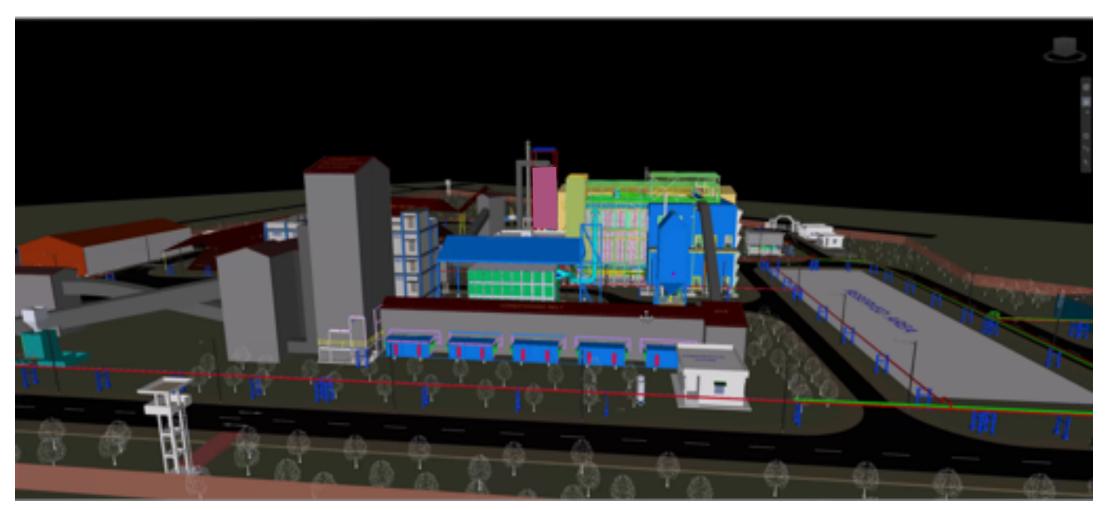
Fly-through of 3D layout – Integrated Pilot Plant





Raw material stockpiles Crushing & handling Primary Processing Building Shift hoppers, milling & extruding Conditioning Belt Conditioning fan boxes

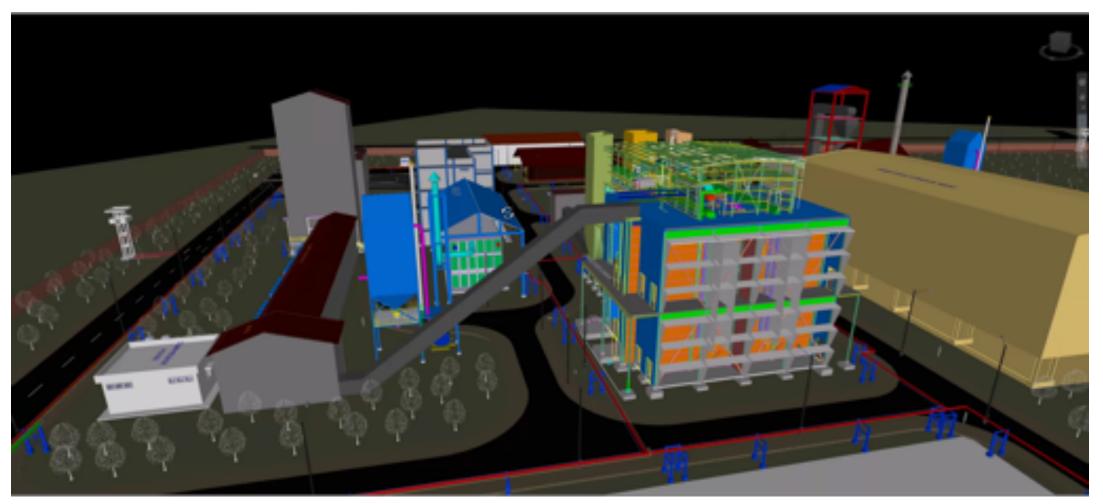




Control room & MCC Aux heating systems Incoming HV Packed Bed Dryer PBD Fan boxes & heat exchangers Moist pellet distribution conveyors PBD exhaust stacks

Fly-through of 3D layout – Integrated Pilot Plant



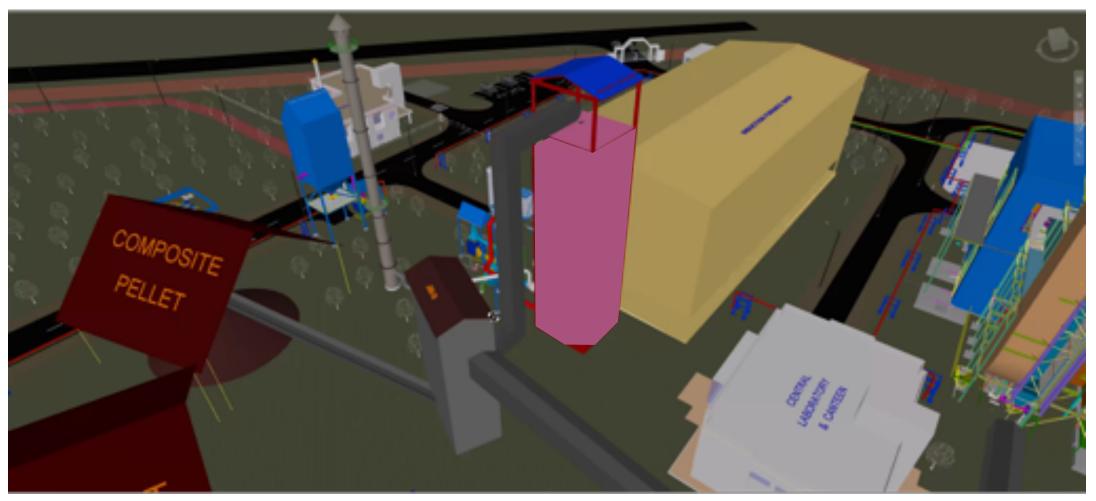


PBD discharge conveyors Pellet conveyors to retort & stockpile Lab & lunchroom

Matmor retort Melt shop (Induction furnace)

Fly-through of 3D layout – Integrated Pilot Plant





Retort Offgas combustor Offgas heat exchanger Exhaust stack

Nitrogen system MCC

Benefits vs Other Ironmaking Processes



Decoupling from traditional raw materials strengthens a business' resistance to inherent price volatility

TEF Study basis: 2015/6 average RM costs & Sales prices

	Traditional	Indian Alt	ECT
	BF - BOF	CB DRI - EAF	C/M - EAF
Blast Furnace -			Coldry / Matmor
	Basic Oxygen	DRI Kiln – EAF	- EAF + Power
	Furnace		Generation
Case / Scenario	Base Case	Base Case	Mid Case
CAPEX (Index)	100%	90%	64%
OPEX (Index)	100%	123%	103%
SALES (Index)	100%	108%	103%
ROI (index)	100%	70%	160%

Inherent strength – Lower Capex, plus ability to use lower cost raw materials:

- Coking coal (~\$US 85 FOB)
- Non-coking coal (~\$55 FOB)

TEF model updated using 2018 Sep RM costs & Sales prices

Traditional	Indian Alt	ECT
BF - BOF	CB DRI - EAF	C/M - EAF
Blast Furnace -		Coldry / Matmor
Basic Oxygen	DRI Kiln – EAF	- EAF + Power
Furnace		Generation
Base Case	Base Case	Mid Case
100%	90%	64%
100%	106%	86%
100%	109%	104%
100%	130%	250%

2018 current pricing:

- Coking coal >100% increase
- Non-coking coal >25% increase
- Lignite flat pricing
- Fe Ore fines ~flat
- Steel >30% increase



Commercial terms:

- Research and development collaboration (R&D collaboration) -unincorporated association governed by the terms of the RCA
- The participating interests in the R&D collaboration (and subsequent SPV)
 - NLCIL: 25.5%
 - NMDC: 25.5%
 - ECT: 49%
- A special purpose vehicle (SPV) will be established
 - the earlier of:
 - Final Project Completion,
 - any registrable project IP
 - as mutually agreed between the parties
- Establishment of the SPV,
 - all project IP and assets transferred and assigned to the SPV,
 - SPV will become a party to the RCA.
- Project Control Committee (PCC):
 - NLCIL 2 representatives
 - NMDC 2 representatives
 - ECT 3 representatives



Commercial terms:

- NLCIL:
 - Fund 50% capital expenditure (~INR75 Crore or ~AUD15M)
 - Fund 25.5% operating expenditure (~INR6.9 Crore or ~AUD1.4M)
 - Fund 25.5% of any additional budget (CAPEX & OPEX)
- NMDC
 - Fund 50% capital expenditure (~INR75 Crore or ~AUD15M)
 - Fund 25.5% operating expenditure (~INR6.9 Crore or ~AUD1.4M)
 - Fund 25.5% of any additional budget (CAPEX & OPEX)
- ECT:
 - Fund 49% operating expenditure (~INR13.2 Crore or ~AUD2.6M) (CP- Coldry Australia, PCC, Board Approvals)
 - Fund 49% of any additional budget (CAPEX & OPEX)
 - Project bond of ~AUD3.5M or 10% of the PCC approved capital budget,
 - Master Technology License:
 - Exclusive royalty-free global licence during R&D phase
 - Transition to a commercial license when SPV created
 - SPV to issue sub-license Global Royalty Share Structure
 - Pre-existing IP remains owned wholly by ECT
 - Project IP owned by the R&D collaboration/SPV
 - New IP (in the future) owned in proportion to funding contributions
 - Commercial Technology License (Australia):
 - ECT will retain the right to license its pre-existing Coldry IP, in Australia
 - All royalty income shared through SPV



Research Collaboration Agreement:

- Commercial Terms
- Master License
- Services Agreements
 - NLCIL
 - NMDC
 - ECT
- Legal / Compliance terms and conditions



- Tripartite Agreement
- Techno-Economic Feasibility study
- External Legal / Financial Due Diligence (1)
- Memorandum of Understanding
- Basic Engineering Report (Dastur)
- External Legal / Financial Due Diligence (1)
- NLCIL Board Approvals
- NMDC Board Approvals
- Presentation to Government (MOC, MOS)
- Signing Ceremony
- Financial Close

Completed Completed Completed Completed Completed Completed Completed Pending Planning Planning Planning



Thank you.

