

# International Construction Consulting, LLC

## Capabilities Overview



# Services

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Worldwide Project Locations

# Services

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Services

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Worldwide Project Locations

# Services

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- Conceptual Engineering and Design
- Budgetary Cost Estimates
- Detailed Cost Estimates
- Project Execution Planning
- Independent Project Reviews
- Feasibility Studies
- Project Management
- Project Management Training
- Construction Management
- Miscellaneous Support

# Services

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- **Conceptual Engineering and Design:**
  - Hydraulics and Line Sizing's
  - Wall Thickness and D/t Calculations
  - Design Basis Memorandum's
  - Class Locations
  - ANSI B31.4, B31.8, API 5L & Associated US and International Codes and Standards
  - Pipeline Route Selection
  - Valve Studies

# Services

OD"	WT"	GRADE	lb/ft	MAOP @ DESIGN FACTOR				D/t
				0.72	0.60	0.50	0.40	
<b>1,200 psig Case</b>								
2.375	0.083	65,000	2.03	3,271	2,725	2,271	1,817	28.6
2.375	0.083	65,000	2.03	3,271	2,725	2,271	1,817	28.6
2.375	0.083	65,000	2.03	3,271	2,725	2,271	1,817	28.6
2.375	0.083	65,000	2.03	3,271	2,725	2,271	1,817	28.6
4.500	0.083	65,000	3.92	1,726	1,438	1,198	959	54.2
4.500	0.083	65,000	3.92	1,726	1,438	1,198	959	54.2
4.500	0.125	65,000	5.85	2,600	2,166	1,805	1,444	36.0
4.500	0.125	65,000	5.85	2,600	2,166	1,805	1,444	36.0
6.625	0.109	65,000	7.59	1,539	1,283	1,069	855	60.8
6.625	0.109	65,000	7.59	1,539	1,283	1,069	855	60.8
6.625	0.125	65,000	8.69	1,766	1,471	1,226	981	53.0
6.625	0.172	65,000	11.87	2,430	2,025	1,687	1,350	38.5
8.625	0.125	65,000	11.36	1,356	1,130	942	753	69.0
8.625	0.156	65,000	14.12	1,692	1,410	1,175	940	55.3
8.625	0.188	65,000	16.96	2,040	1,700	1,416	1,133	45.9
8.625	0.203	65,000	18.28	2,202	1,835	1,529	1,223	42.5
10.750	0.156	65,000	17.67	1,358	1,131	943	754	68.9
10.750	0.188	65,000	21.23	1,636	1,364	1,136	909	57.2
10.750	0.203	65,000	22.89	1,767	1,472	1,227	981	53.0
10.750	0.250	65,000	28.06	2,176	1,813	1,511	1,209	43.0

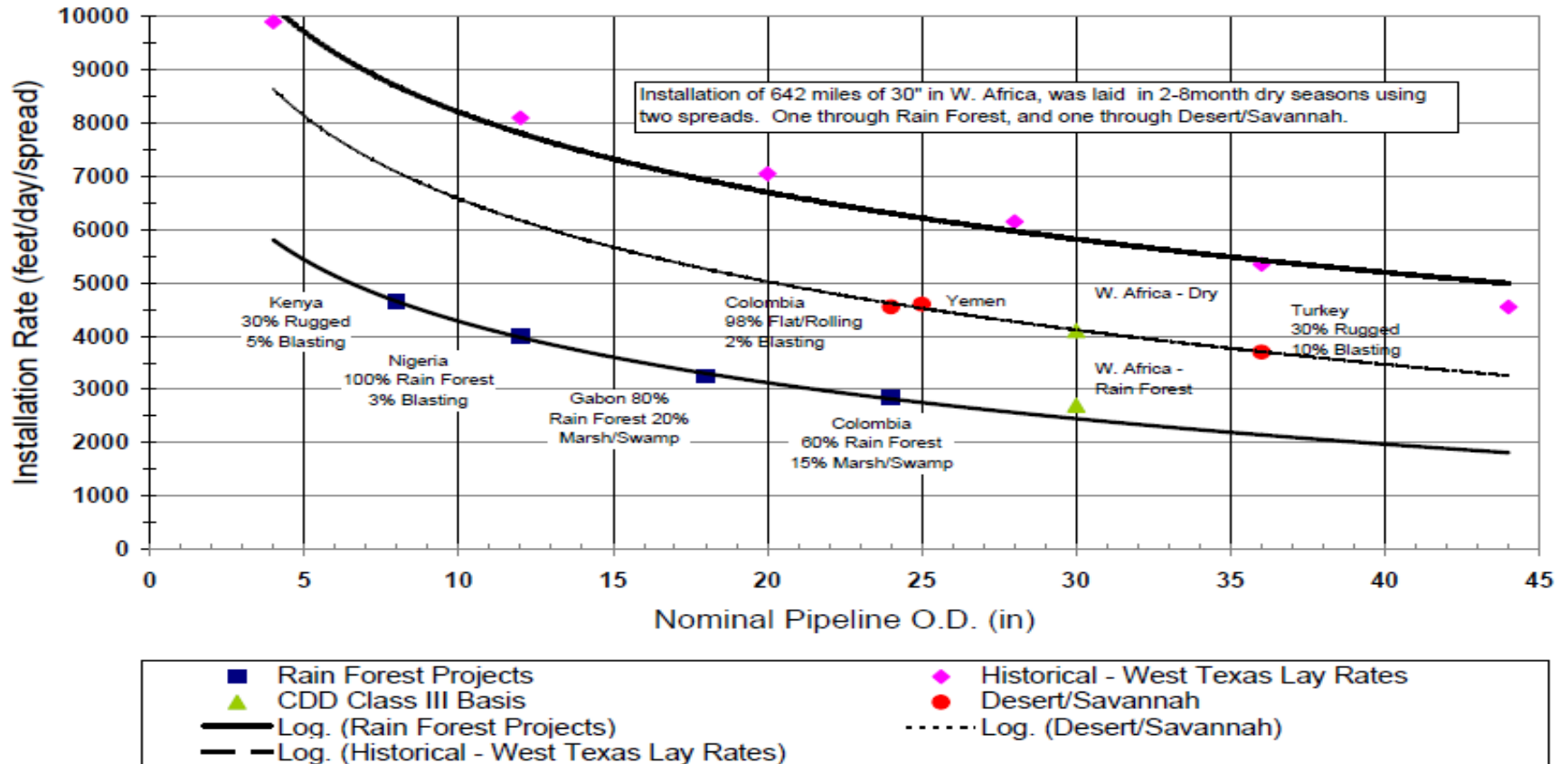
# Services

## ➤ **Budgetary Cost Estimates**

- Complete System Conceptual Estimates, including:
  - Engineering
  - Pipelines, Flowlines, and Gathering Lines
  - Compressor and Pump Stations
  - Production Facilities
  - Infrastructure (incl Roads, Well Pads, etc.)
  - Drilling
  - Field Facilities
  - Tank Farms
  - CAPEX, including Line pipe, Coating, Permanent Materials
  - Offshore Facilities
  - Telecom, SCADA, and CP
  - OPEX

# Services

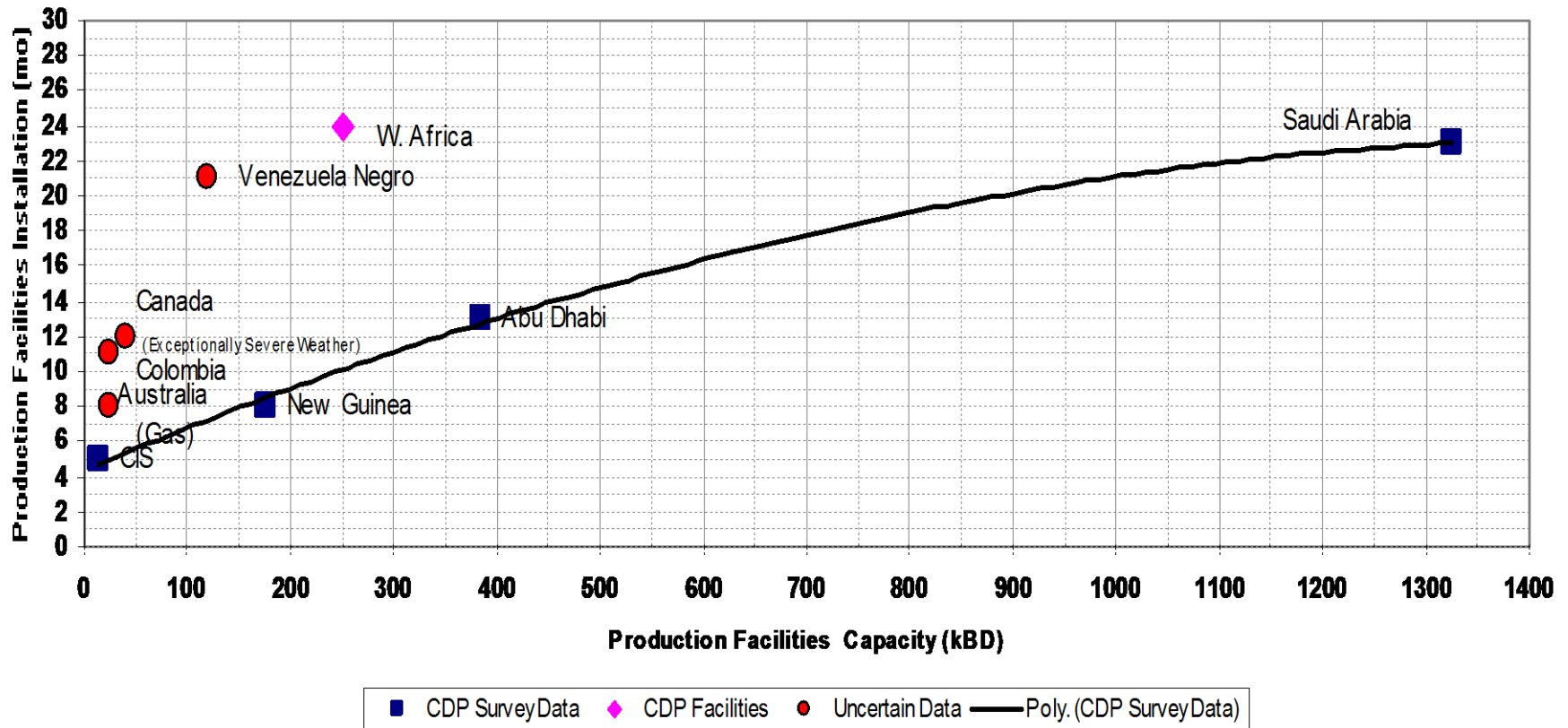
## Pipeline Spread Installation Rates





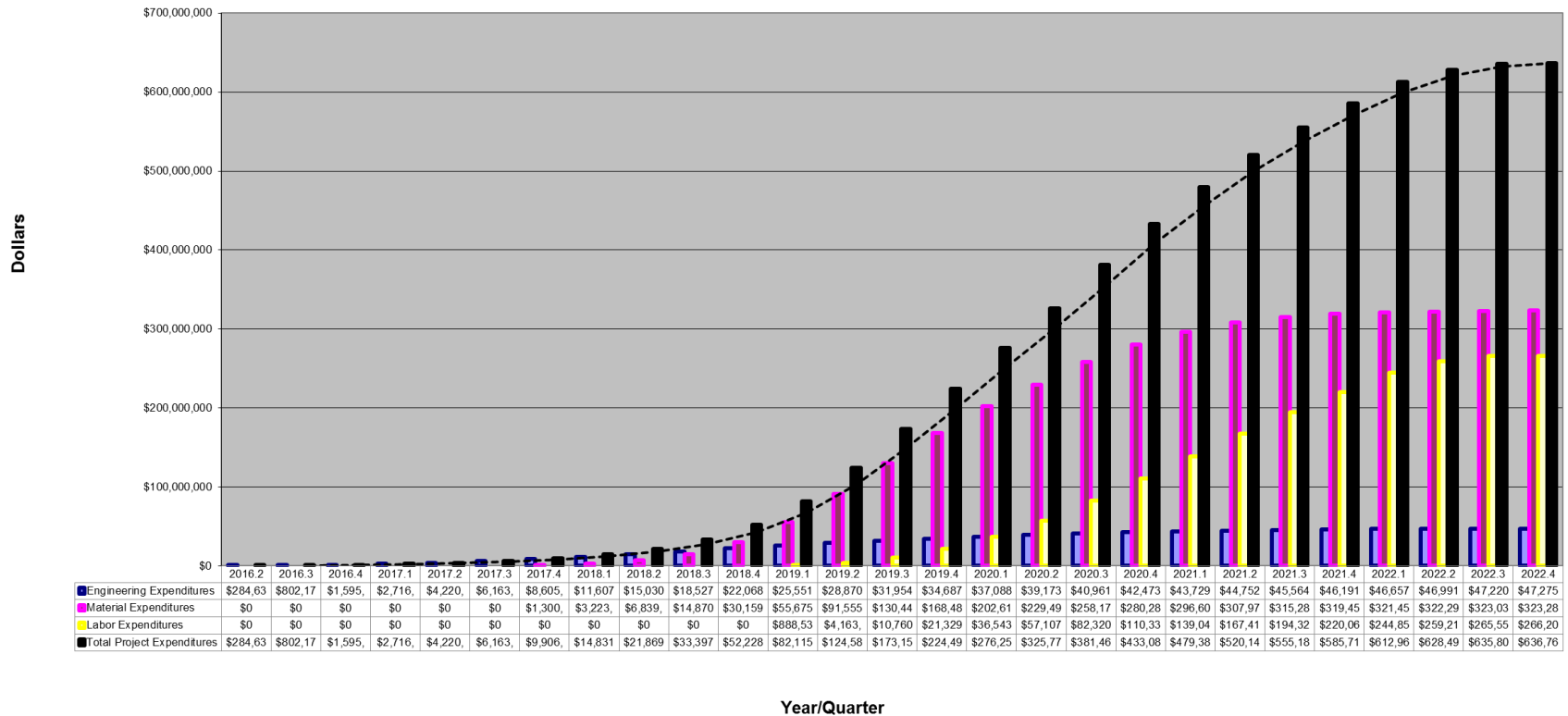
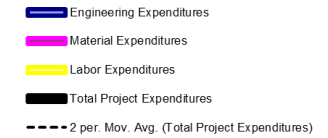
# Services

## Production Facilities Construction (Start foundations to Mechanical Completion)



# Services

## Ukraine LNG Re-Gassification Project Cumulative Expenditure



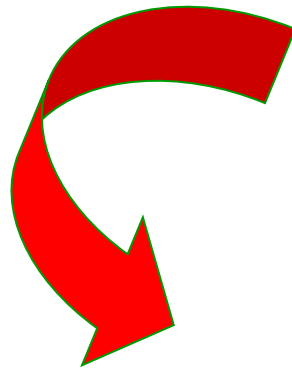
# Services

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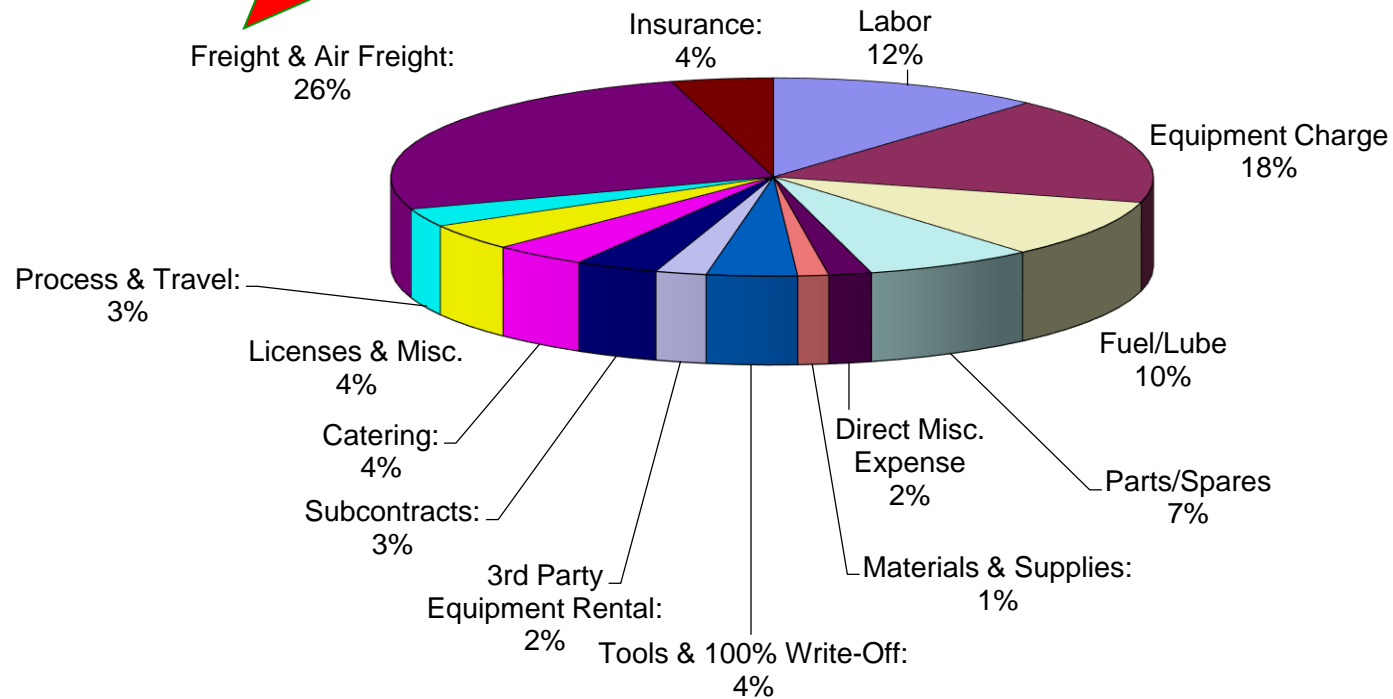
## ➤ Detailed Cost Estimates

- Labor, Equipment, and Materials
- Mobilization, Freight, Camp Construction
- Construction Management
- Field Support Services
- Detailed Crewing
- Infrastructure Upgrades
- Scheduling
- Manpower Loading

# Services

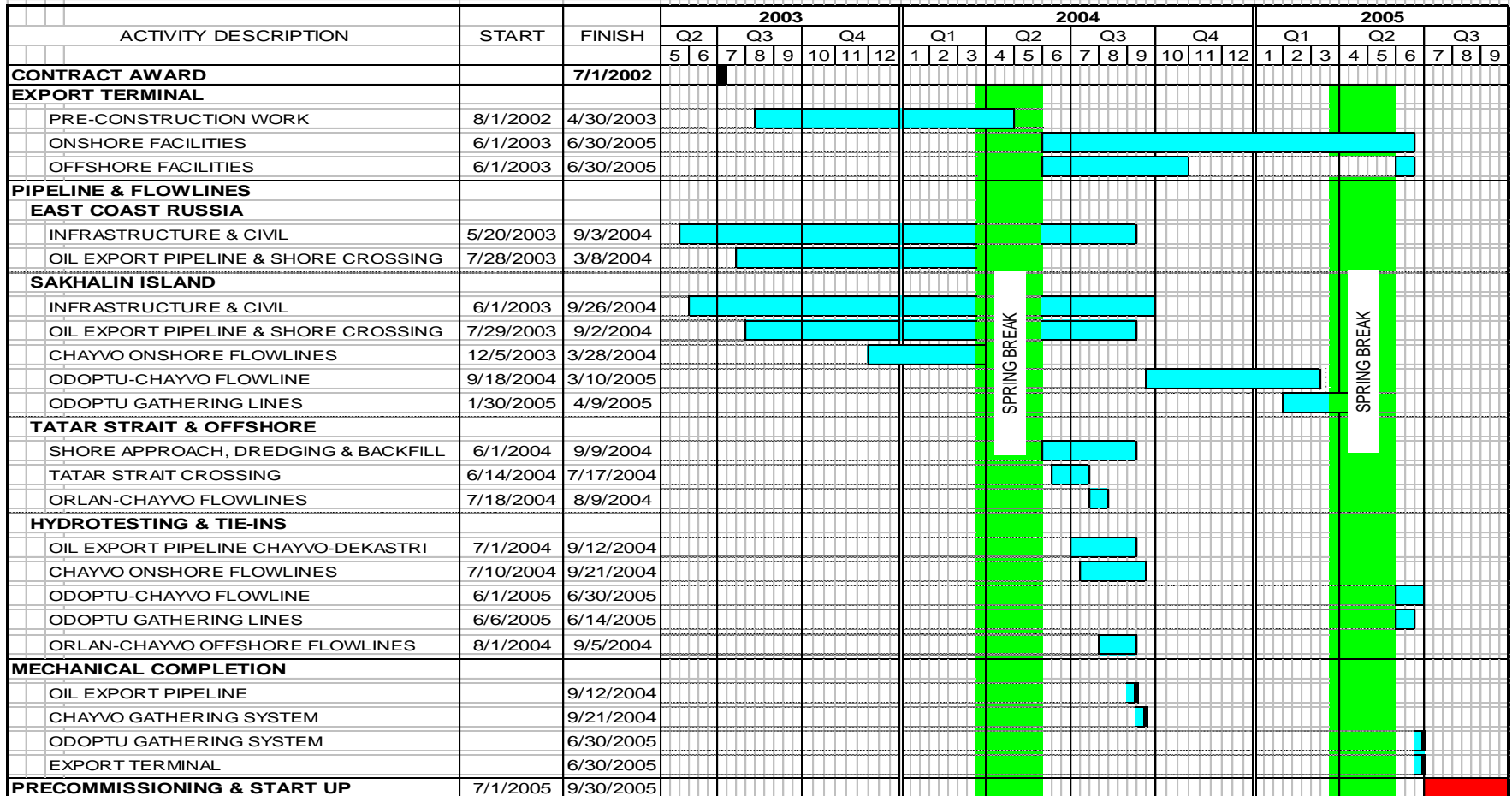


## Pipeline Cost Distribution



# Services

## EPC-2 Pipeline, Flowlines & Export Terminal Construction Execution Schedule



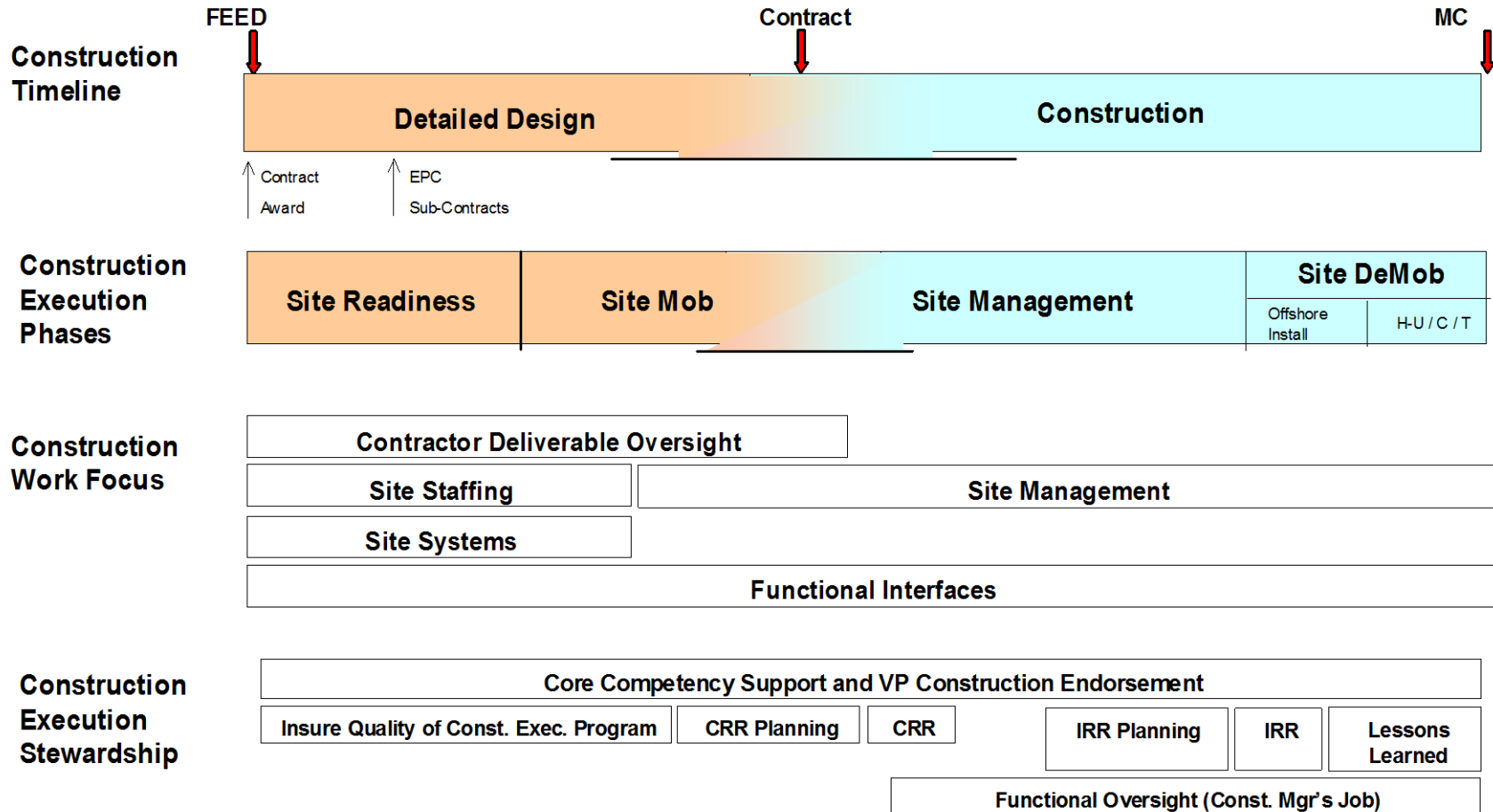
# Services

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## ➤ **Project Execution Planning**

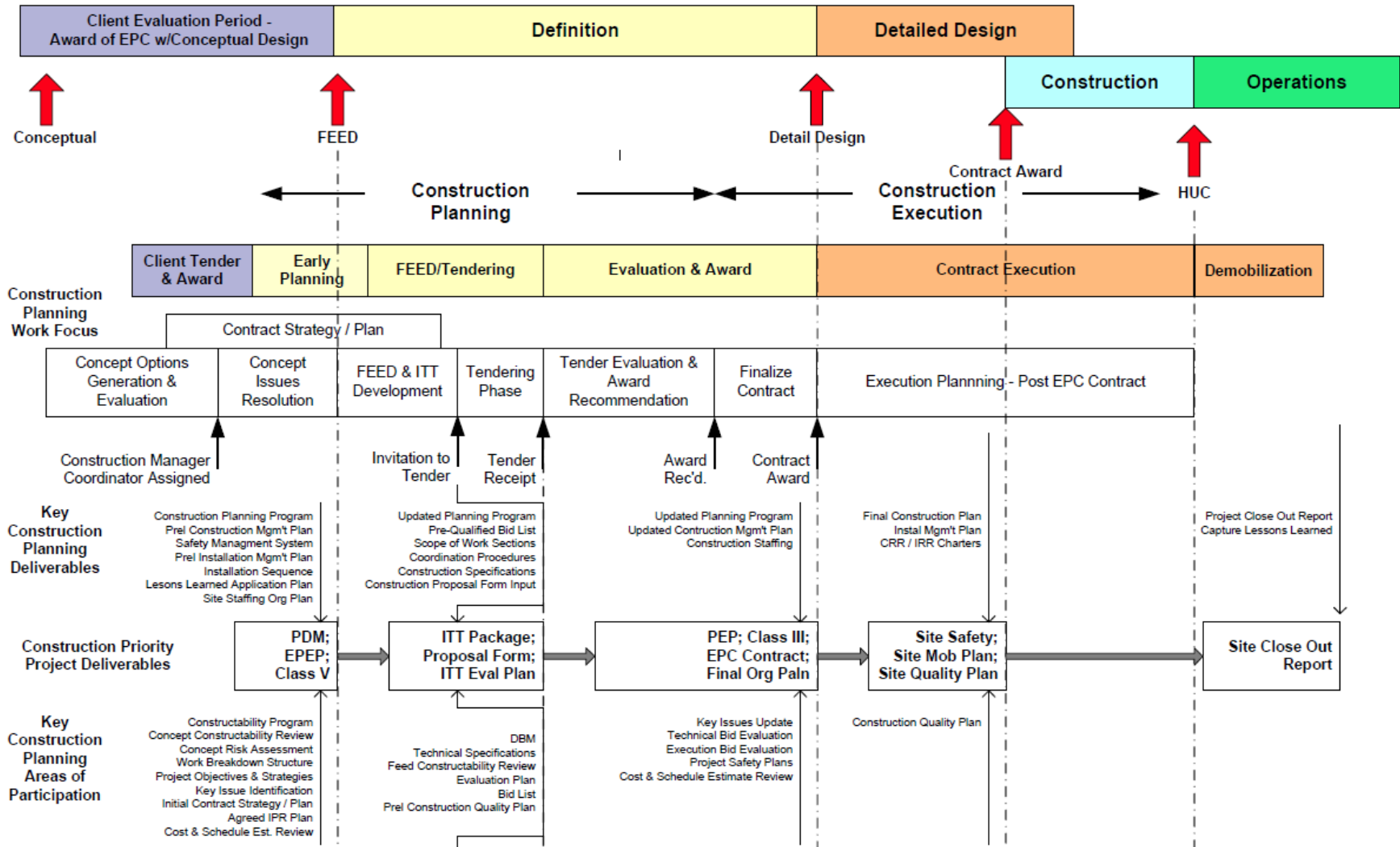
- Project Management Plan (PMP) Development
- Project Execution Plan (PEP) Development
- Engineering Management & Execution Plans
- Preliminary Construction Planning
- Detailed Construction Execution Plan (CEP)
- Logistics Planning

# Services



# Services

## Project Timeline for Construction Planning under an EPC Project





# Services

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- **Independent Project Reviews**
  - Risk Assessments & Risk Management Plans
  - Constructability Reviews
  - Construction Readiness Assessments
    - Fabrication Readiness Review
    - Construction Performance Review
  - Operations Readiness Assessments

# Services

## Independent Project Review Outline

### Discussion Topics

- **Process Overview**
- **Project Content**
- **Key Message**
- **Assessment Areas**
- **Path Forward Recommendations**

### Key Messages

- Continued vigilance in maintaining Road Transportation Safety (RTS) within the project site.
- Work to keep Contractor accountable for the performance of their Sub-contractors including scheduling and sequence of work.
- Improve internal and external communications using Site Memos / Site Instructions / Formal letters, and translation of key Governmental Requirements.
- Further develop construction schedule for forecasting and productivity. Develop variance reporting to emphasize tasks not meeting scheduled dates.
- Establish a system to up date estimate quantities and actual quantities required.

### Desired Outcomes

- **Highlight opportunities and observed gaps in the project execution strategy to assist the Site Execution Team.**
- **Establish a clear Path Forward with the Site Execution Team.**

# Services

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## ➤ Feasibility Studies

- Field Development Planning
- Conceptual Engineering and Design
- Conceptual/Budgetary Cost Estimates
- Strategic Project and Business Planning
- Risk Assessments (Business, Political, Currency, Market, etc.)

# Services

Project Overviews

Project Description: Sakhalin 1, Phase 1 Exxon Neftegas Ltd	
Description	Cost
Pipeline Installation	\$286,214,405
Mainline Pipe (includes FBE coating & shipping)	\$117,462,948
Mainline Valves, Misc. Materials, CP System, Signs (includes shipping)	\$15,730,563
Telecommunications	\$43,367,500
Compressor Stations	\$0
Tank Farms	\$53,625,000
Pump Stations	\$15,840,000
Production Facility	\$962,500,000
Gathering Facilities	\$53,222,400
Misc Facilities (i.e. meter stations)	\$2,062,500
Offshore Facilities	\$235,620,000
Infrastructure	\$53,955,000
Drilling	\$0
Engineering	\$74,737,021
Subtotal	\$1,914,337,337
Contingency - 20%	\$382,867,467
<b>Sub Total Installed Cost</b>	<b>\$2,297,204,804</b>
Client/Owner Costs	\$59,789,617
Parent Company Operating Costs	\$5,978,962
<b>Sub Total Client/Owner Costs</b>	<b>\$65,768,578</b>
<b>Total Installed Cost (TIC)</b>	<b>\$2,362,973,383</b>
Description	Cost
Operating Costs (typical year)	\$17,229,036
Years of Operating	25
<b>Total Operating Cost *</b>	<b>\$633,167,074</b>
Description	Cost
<b>Total Installed Costs</b>	<b>\$2,362,973,383</b>
<b>Total Operating Cost *</b>	<b>\$633,167,074</b>
<b>Total System Cost</b>	<b>\$2,996,140,457</b>
* Includes 2% per year for inflation/escalation. Construction phases include all materials.	

CAPEX Costs

OPEX Costs

Total Installed Costs (TIC)

# Services

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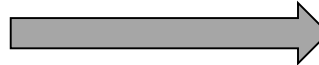
## ➤ Project Management

- Contracting Strategy
- Project Management Plan (PMP)
- Project Development and Identification of Key Objectives, Risks and Mitigations
- Staffing and Organizational Development
- Operations Strategy
- Security
- Engineering, Design, and Construction Interface
- Scheduling

# Services

## Description of Deliverables

The following descriptions relate to the deliverables identified on the Project Management Process – Summary. The intent of the descriptions is to broadly identify the main elements that should be included in each deliverable. Where the deliverable appears in more than one Project Stage (e.g. External Affairs Plan) and is identified by words like *initial, update, apply, manage, final, etc.*, it is expected that the level of maturation increases as the project progresses. Where the deliverable is named the same from stage to stage (e.g. Independent Project Review) that deliverable applies specifically to the time period of the gate in question, but can build off previous work if warranted. Finally, the team will need to determine when work on a particular deliverable should begin to ensure completion prior to a specific gate.



## Project Execution Plan

- Project Overview
- Goals and Philosophies
- Organization Plan
- Appropriations & Funding Plan
- Engineering Plans
- Value Improving Practices (VIPs)
- Construction Plan
- Contracting and Procurement Plans
- Interface Management Plans
- Project issue resolution, identification of responsibilities
- Information Management Plan
- HSE Plans
- Risk Management Plan
- Regulatory, Permitting, and External Organizations plans
- Quality Management program
- Project Controls Plans (cost & schedule)
- Operations Involvement
- Commissioning and Start-up Plans

## Project Management Plan (PMP)

# Services

<b>WORK BREAKDOWN STRUCTURE</b>									
	MODU	OFFSHORE FACILITIES				ONSHORE FACILITIES			
	Modu	Topsides	Jackets	Flowlines/ Risers	Infrastructure	Power Plant	Compressor Station	Pipelines	Power Transmission Lines
Project Management	<b>COMPANY</b>	<b>COMPANY</b>			<b>COMPANY</b>				
FEED	<b>INTEC</b>	<b>ABB LUMUS GLOBAL</b>			<b>ABB LUMUS GLOBAL</b>				
Site Data Collection	<b>N/A</b>	<b>AMEC</b>			<b>AMEC</b>			<b>N/A</b>	<b>N/A</b>
EIA Review	<b>N/A</b>	<b>N/A</b>	<b>DAMES &amp; MOORE</b>						
Route Survey	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>GULF INTERSTATE</b>	
R.O.W. Acquisition	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>LS (ROW-RC)</b>
Detail Design	<b>Lease</b>	<b>EPC2-LS</b>			<b>EPC1-LS</b>				
Equipment & Bulks Procurement Note 2									
Construction/Fabrication/									
Onshore HUC		<b>N/A</b>	<b>N/A</b>	<b>N/A</b>					
Transport to Site & Installation									
Offshore HUC		<b>EPC2-LS</b>			<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>
O & M		<b>MPN</b>			<b>EPC1 - LS</b>				

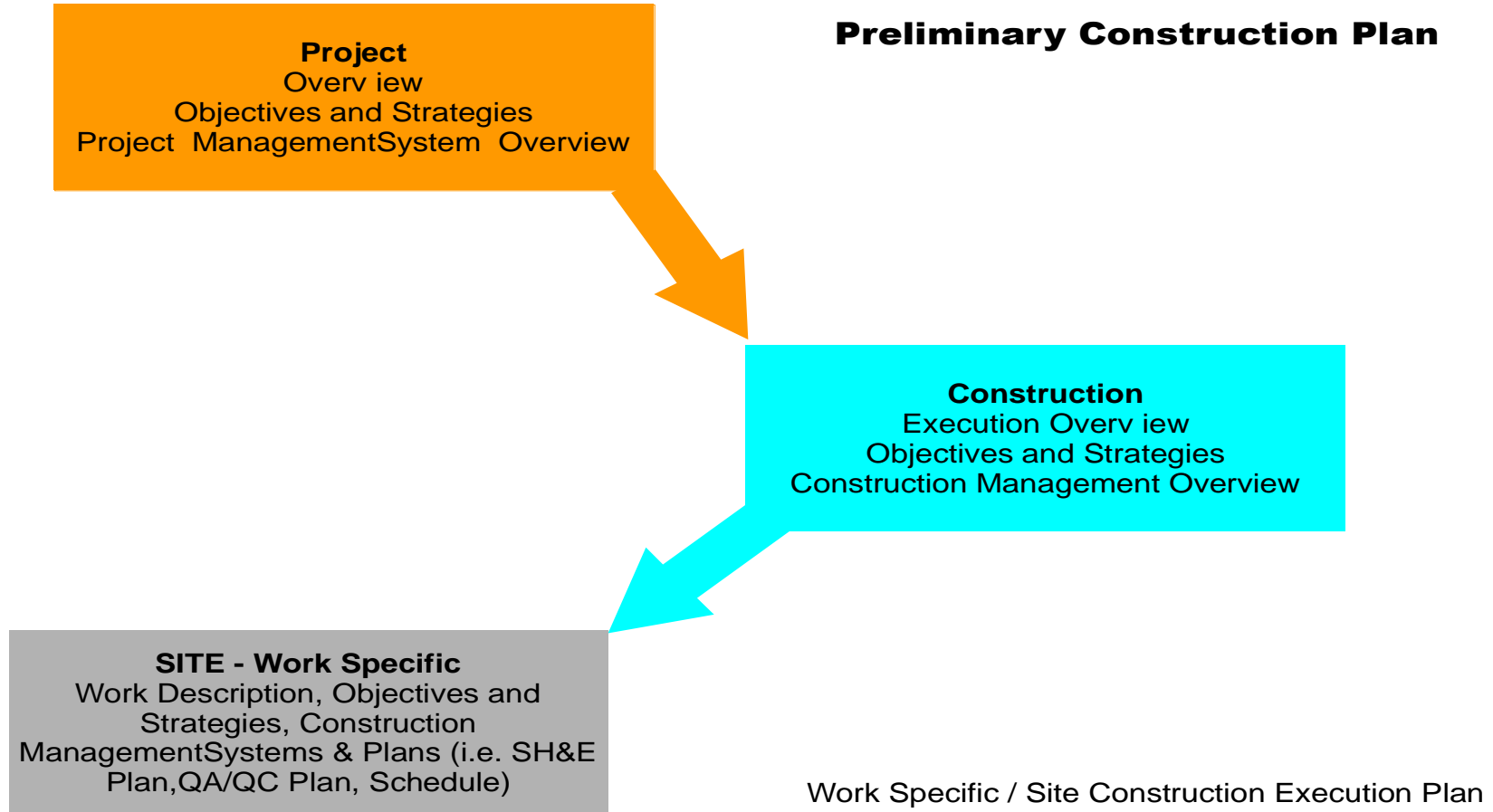
# Services

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- **Construction Management**
  - Detailed Construction Execution Planning
  - Logistics
  - Subcontracting Strategy
  - Equipment and Personnel Mobilization
  - Construction Sequencing and Scheduling
  - Engineering and Construction Interfaces
  - Constructability Program
  - Environmental Management Plan (EMP) Review



# Services



# Services

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## ➤ **Miscellaneous Support**

- Project Specific Engineering, Procurement, and Construction Specifications
- Water and Waterbody Crossing Design and Construction
- Tender Package Preparation & Tender Evaluation Planning
- Engineering & Design Review
- Expert Witness
- Constructability Reviews

# Services

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## ➤ **Miscellaneous Support (con't)**

- Position papers (HDD's, pipeline route selection, pipe stacking, valve study's, etc.)
- Design to capacity studies (evaluating the required maximum capacity of each system and major piece of equipment relative to the desired overall facility capacity)

# Services

## Invitation to Tender (ITT) Overview

**Invitation Letter**

**Attachment I Instructions to Tenderers**

**Attachment II Principal Document / Exhibits**

**Attachment III Commercial Tender Form**

**Attachment IV Technical Tender Form**

**Attachment V Preliminary Engineering**

- Pricing
  - Lump Sum & Reimbursables
  - Options
  - Unit Rates for Changes
- Local Content
- Guarantees, Insurance, Vessel Commitments
- Exceptions

- Execution Plan
- Management of Local Participation
- Project Management
- Component Specific Information
- Onshore Pipelines
- Offshore Pipelines
- Export Terminal
- Near Term Plans (EPEP, etc)

# Services

## Buoyancy Control – Typical Output

Exxon Neftegas Ltd					9-May-02
Sakhalin 1, EPC2					Greg Lamberson
					International Construction Consulting
<b>Concrete Pipe Coating Summary</b>					
		Concrete Coating Thickness (INCHES)	Labor Costs	Material Costs	Total Cost
Description	Length				
Small Streams	0	0.00	\$0	\$0	\$0
Marsh & Wetlands	0	0.00	\$0	\$0	\$0
Large Rivers	0	0.00	\$0	\$0	\$0
Offshore	36,060	1.75	\$622,731	\$1,961,749	\$2,584,479
Contingency					\$219,213
<b>Totals</b>	<b>36,060</b>		<b>\$622,731</b>	<b>\$1,961,749</b>	<b>\$2,803,692</b>
Pipe Size	36.00				
Number of Joints	902				
Selling Price per Foot	\$77.75				

Note: Above are "Selling Prices" (includes OH & Profit) for concrete coating operations only, lay price is not included.

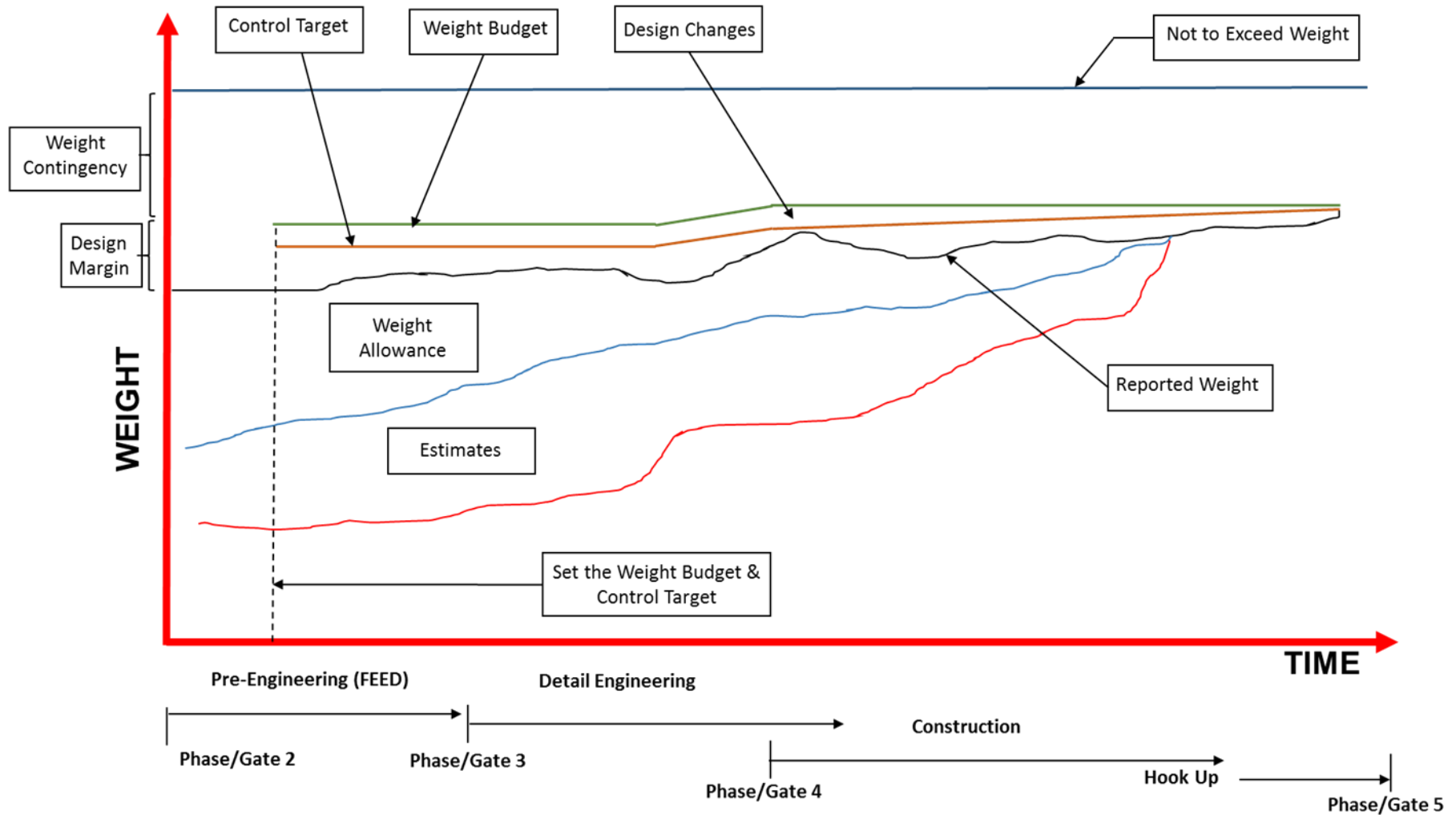
**Summary Sheet**

**Detailed Calculations**

Exxon Neftegas Ltd			9-May-02	
Sakhalin 1, EPC2			Greg Lamberson	
			International Construction Consulting	
<b>Input Data</b>	<b>Input Data</b>	<b>US Units</b>	<b>Input Data</b>	<b>Metric Units</b>
Pipe O. D.	36.00	inches	914.40	MM
Pipe Wall Thickness	0.900	inches	22.86	MM
Protective Coating Thickness	0.019	inches	0.48	mm
Protective Coating Weight per Foot	1.329	lbs./ft.	2.01	kg / mtr
Protective Coating O. D.	36.04	inches	915.37	mm
Pipe Volume Displaced Including Coating	7.08	ft <sup>3</sup> /ft.	0.64	cm / mtr
Pipe Weight Per Foot	337.37	lbs./ft.	511.17	kg / mtr
Density of Contents	0.00	lbs./ft <sup>3</sup>	0.00	kg / cm
Pipe Contents Weight Per Foot	0.00	lbs./ft.	0.00	kg / mtr
<b>Pipe &amp; Contents Weight Per Foot</b>	<b>337.37</b>	<b>lbs./ft.</b>	<b>511.17</b>	<b>kg / mtr</b>
<b>Mud Specific Gravity (Sink Factor)</b>	<b>1.15</b>		<b>1.15</b>	
Mud Density	71.76	lbs./ft <sup>3</sup>	1,208.08	kg / cm
Weight of Concrete in Mud	118.24	lbs./ft <sup>3</sup>	1,990.57	kg / cm
<b>Weight of Concrete in Air</b>	<b>190.00</b>	<b>lbs./ft<sup>3</sup></b>	<b>3,198.65</b>	<b>kg / cm</b>
Negative Buoyancy Required	0.00	lbs./ft.	0.00	kg / mtr
<b>Calculation Results</b>				
<b>Upward Buoyancy</b>	<b>508.31</b>	<b>lbs./ft.</b>	<b>770.17</b>	<b>kg / mtr</b>
Net Buoyancy	170.94	lbs./ft.	259.00	kg / mtr
<b>Weight Concrete/foot of pipe</b>	<b>274.69</b>	<b>lbs./ft.</b>	<b>416.20</b>	<b>kg / mtr</b>
Square of Coating O. D.	1,563.81	inches <sup>2</sup>	10,086.55	cm <sup>2</sup>
Coating O. D. calculated	39.54	inches	100.44	cm
<b>Coating Thickness Calculated</b>	<b>1.75</b>	<b>inches</b>	<b>4.45</b>	<b>cm</b>
<b>Concrete Required</b>				
<b>Pipe length</b>	<b>36,060.00</b>	<b>feet</b>	<b>10,991.09</b>	<b>mtr</b>
Concrete density	190.00	lbs./ft <sup>3</sup>	3,198.65	kg / mtr
<b>Coating thickness used</b>	<b>1.75</b>	<b>inches</b>	<b>4.45</b>	<b>cm</b>
Concrete Coated pipe O.D.	39.54	inches	100.43	cm
Bare pipe area	7.08	ft <sup>2</sup>	0.64	mtr <sup>2</sup>
Concrete Coated pipe area	8.53	ft <sup>2</sup>	0.77	mtr <sup>2</sup>
Concrete area	1.44	ft <sup>2</sup> /ft.	0.13	cm / mtr
Concrete area	0.05	yards/foot	0.14	cm / mtr
<b>Concrete weight (concrete)</b>	<b>274.12</b>	<b>lbs./foot</b>	<b>415.33</b>	<b>kg / mtr</b>
<b>Total concrete required</b>	<b>1,926.83</b>	<b>yards</b>	<b>1,464.39</b>	<b>cm</b>
Total Wire Mesh Needed	104,049	ft <sup>2</sup>	9,364.37	mtr <sup>2</sup>
Labor Cost per Pound	\$0.0630	per #	\$0.03	kg
Labor Cost	\$622,731		\$622,731	
Labor Cost per Foot	\$17.27	per foot	\$56.64	mtr
Concrete Cost per Cubic Yard	\$750	yd <sup>3</sup>	\$570	cm
Reinforced Steel Cost	\$52,024		\$52,024	
Concrete Cost	\$1,445,119		\$1,445,119	
Misc Material Costs	\$72,256		\$72,256	
Total Material Cost	\$1,569,399		\$1,569,399	
Total Material Cost / foot	\$43.52	per foot	\$142.79	mtr
Total Cost / foot	\$60.79	per foot	\$199.44	mtr
Contingency	\$219,213	10%	\$219,213	10%
<b>TOTAL COST</b>	<b>\$2,411,343</b>		<b>\$2,411,343</b>	

# Services

## Weight Management: From Initial Estimates to Completion



# Services

- Confidential Client -

## Corning Meter Tube Velocities & Pressure Drop

Inlet Pressures of 500, 750 and 1200 psig

### 500 psig Inlet

MMscfd	P (psig)
100.0	500
Temp. (°F)	60
Density (lbs/ft <sup>3</sup> )	2.042
Compressibility	0.894

### 750 psig Inlet

MMscfd	P (psig)
100.0	750
Temp. (°F)	60
Density (lbs/ft <sup>3</sup> )	2.244
Compressibility	0.885

### 1200 psig Inlet

MMscfd	P (psig)
100.0	1200
Temp. (°F)	60
Density (lbs/ft <sup>3</sup> )	2.347
Compressibility	0.881

#### Suction ▼

Line Size	8	10	12	16
Wall Thickness	0.500	0.500	0.500	0.750
Delta P/100'	4.77	1.20	0.40	0.09
Vel. (ft/s)	110.6	66.9	44.8	25.8
% of Erosional	99	60	40	23

#### Suction ▼

Line Size	8	10	12	16
Wall Thickness	0.500	0.500	0.500	0.750
Delta P/100'	3.18	0.80	0.26	0.06
Vel. (ft/s)	73.7	44.6	29.8	17.2
% of Erosional	69	42	28	16

#### Suction ▼

Line Size	8	10	12	16
Wall Thickness	0.500	0.500	0.500	0.750
Delta P/100'	1.99	0.50	0.17	0.04
Vel. (ft/s)	46.2	27.9	18.7	10.8
% of Erosional	44	27	18	10

Note: Recommended % of Erosion should be less than 62.5%.

$$\Delta P = (12.6fQ^2S_gTZL)/(d^5P)$$

f = friction factor 0.032/d<sup>1/2</sup>

S<sub>g</sub> = Specific gravity

Z = Compressibility

d = Internal diameter, in

Q = flow rate (MMscfd)

T = Temp in °R

L = Equivalent Length, ft

P = Absolute pressure, psia

$$\text{Velocity} = 0.3272 \text{ QTZ/PA}$$

# Recent Projects

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Worldwide Project Locations



# Recent Projects

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- Alpha Crude Connector Project, *USA*
- Chad Development Project, *Chad*
- Doseo Pipeline Project, *Chad*
- Caspian Sea Pipeline Expansion, *Russia*
- Angola LNG Project, *Angola*
- EGP3A Offshore Pipeline Project, *Nigeria*
- Sakhalin 1, Phase 1, EPC 2, *Far East Russia*
- Cuiaba Gas Pipeline, *Bolivia & Brazil*
- Chad Development Project, *Chad & Cameroon*
- Alaska Gas Pipeline Producers Project, *USA & Canada*
- China Gas Pipeline Project, *China*

# Recent Projects

## ➤ Alpha Crude Connector Project, *USA*



- ❑ Crude oil gathering system in southeast New Mexico and Texas with initial capacity of 100Mb/d.
- ❑ Approximately 400 miles of pipelines and gathering lines
- ❑ Over 200 well pad connections
- ❑ 300MBbl of storage,
- ❑ Downstream pipeline connections.
- ❑ FERC regulated system.
- ❑ Received the Hart Energy "Project of the Year" award for 2016.

# Recent Projects

## ➤ Chad Development Project, *Chad*



- Numerous major capital projects
- Field development projects,
- Well head fabrications & hook-ups,
- Civil construction,
- Flowlines and gathering lines,
- Gathering facilities,
- SIMOPS for Brownfield
- Greenfield
- Remote, logistically challenged

# Recent Projects

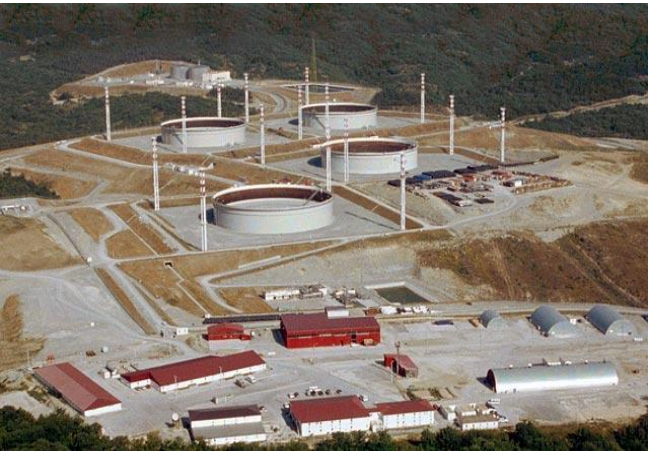
## ➤ Doseo Pipeline Project, *Chad*



- ❑ 500 kms of 16"-24" ANSI Class 900 pipeline
- ❑ 5 pump stations,
- ❑ Gas handling;
- ❑ Heating stations;
- ❑ Topping plants;
- ❑ Power generation;
- ❑ 3 major river crossings
- ❑ Tie-in to the existing Chad-Cameroon pipeline.
- ❑ Pipeline throughput was designed for 100K BOPD
- ❑ Capital cost of \$1.3B.

# Recent Projects

## ➤ Caspian Sea Pipeline Expansion, *Russia*



- ❑ 6 each 100K M3 Floating Roof Tanks (VRFT)
- ❑ Marine terminal expansion and tie-in to offshore pipeline
- ❑ Process piping;
- ❑ Automated fire protection system;
- ❑ Production service support depot;
- ❑ Power substations, power supply and equipment room with control room;
- ❑ SIMOP's for Commissioning & final tie-ins.
- ❑ Greenfield / Brownfield

# Recent Projects

## ➤ Angola LNG Project, *Angola*



- 1 Onshore LNG process train
- 2 LNG storage tanks
- Marine terminal
- "ConocoPhillips Optimized Cascade Process"
- Gas separation & treating
- Condensate stabilization
- LPG fractionation
- Liquefaction & product storage
- 200 kms of 18", 22", and 24" – worlds highest pressure gas pipelines installed to date.

# Recent Projects

## ➤ EGP3A Offshore Pipeline Project, *Nigeria*



- ❑ 14 total Km of onshore pipelines, dual 24"- predominately swamps
- ❑ 94 total Km of 24", 20", 10" offshore pipelines
- ❑ Offshore platforms & topsides
- ❑ Hook ups
- ❑ Shore approach
- ❑ SIMOPS integration
- ❑ Security challenged

# Recent Projects

## ➤ **Sakhalin 1, Phase 1, EPC 2, *Far East Russia***



- ❑ 369 Km of Pipelines (crude, gas injection, and water injection)
- ❑ 201 Km 24" Crude Export Pipeline
- ❑ Marine Terminal
- ❑ Tatar Strait Crossing
- ❑ Environmentally Sensitive
- ❑ Logistically challenged



# Recent Projects

## ➤ Cuiaba Gas Pipeline, *Bolivia & Brazil*



- 636 Km of 18", Gas
- 5 Future Compressor Stations
- 3 Meter Facilities
- 5 Major River Crossings
- Environmentally Sensitive
- Logistically Challenged
- Bolivia-Brazil Border Crossing
- Crossed Worlds Largest Wetland (Pantanal)

# Recent Projects

## ➤ Chad Development Project, *Chad & Cameroon*



- 1,070 Km of 30", Crude Oil
- 3 Pump Stations
- Field Facilities and Infrastructure
- Remote Location - Logistically Challenged
- Telecommunications
- World Bank Financed
- Environmentally Challenged
- Multiple Interfaces
- Cameroon-Chad Border Crossing

# Recent Projects

## ➤ Alaska Gas Pipeline Producers Project, *USA & Canada*



- Feasibility Study
- 6,440 Km of 48" or 52", Gas
- 12 Compressor Stations
- NGL Plant
- 5 Major River Crossings
- Remote Location
- Harsh Environment
- Largest Gas Pipeline Project in the World

# Recent Projects

## ➤ China Gas Pipeline Project, *China*



- ❑ 4,830 Km of 40", Gas
- ❑ 18 Compressor Stations
- ❑ Remote Location
- ❑ 40 Major River and Canal Crossings
- ❑ 300 Km of Congested Construction in Shanghai
- ❑ Pipeline Crossing of the Great Wall

# Recent Projects

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1

Services

2

Recent Projects

3

Clients

4

Worldwide Project Locations

# Clients

- ❖ AGA Resources
- ❖ Alaska Gas Producers Pipeline Team (BP; Phillips; and ExxonMobil)
- ❖ Alex Stewart International
- ❖ Angola LNG Ltd
- ❖ Boardwalk Partners
- ❖ Boston Strategies
- ❖ Branford Castle
- ❖ Caracal Energy
- ❖ Chevron
- ❖ Chevron Neftegas Ltd
- ❖ Chevron Nigeria, Ltd
- ❖ Comision de Regulacion de Energia y Gas (CREG)
- ❖ Confidential Major Investment Bank
- ❖ Constructora CAMSA, CA
- ❖ Cumming Company
- ❖ Dueltex Energy (Nigeria) Ltd
- ❖ ExxonMobil
- ❖ Exxon Neftegas Ltd
- ❖ Frontier Energy, LLC
- ❖ Germer Gertz; LLP
- ❖ Glencore E&P
- ❖ Goldman-Sachs
- ❖ Guidepoint Global Advisors
- ❖ Jahind Projects Limited
- ❖ K&M Engineering and Consulting, LLC
- ❖ Network Oil & Gas Ltd
- ❖ Parsons E&C
- ❖ Project Management Resources, Inc
- ❖ Select Equity Group
- ❖ Shell
- ❖ Snelson Companies
- ❖ Universal Strategic Alliance
- ❖ Willbros Engineering
- ❖ Willbros International
- ❖ Willbros West Africa

# Recent Projects

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1

Services

2

Recent Projects

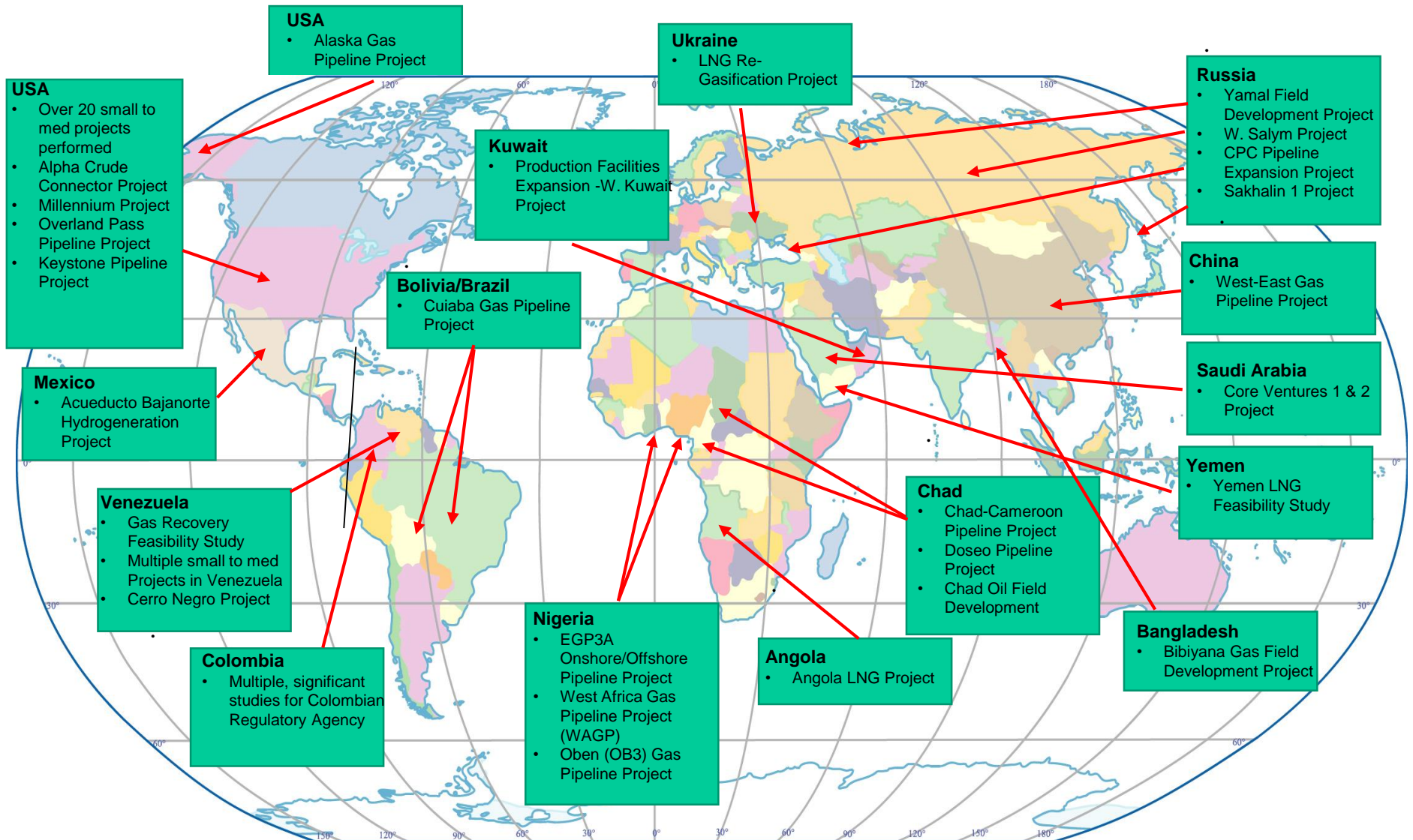
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Clients

4

Worldwide Project Locations

# Worldwide Project Locations





# Contact

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