



Design
工程设计

Modularization
模块化

Consulting
项目咨询

上海纬纵工程技术有限公司

LEECC Engineering & Technology Co., Ltd. Shanghai



LEECC

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公司概况
Company Overview

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核心竞争力
Core Competitiveness

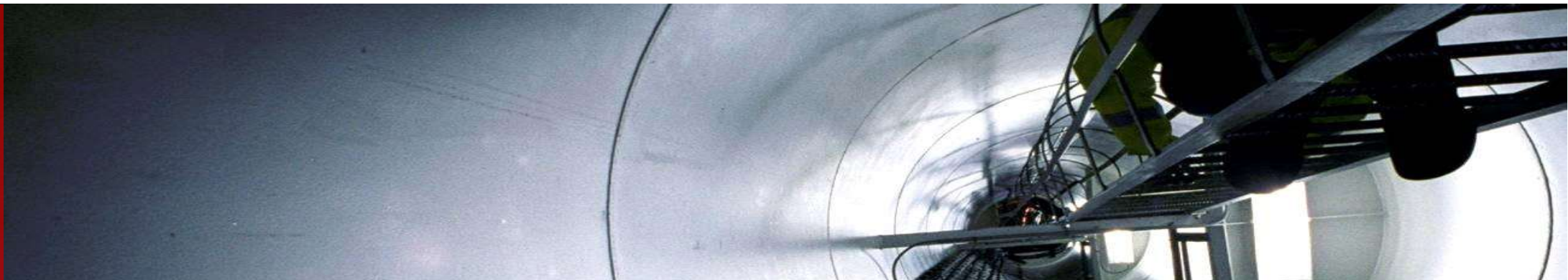
03

业务范围
What We Do

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典型项目
Typical Project Execution

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公司概况

Company Overview

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公司概况

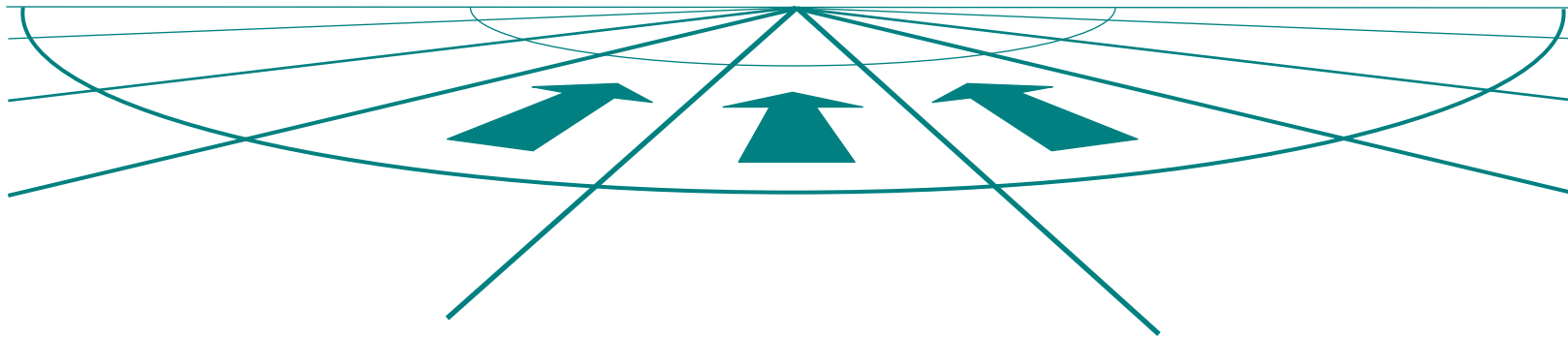
Company Overview



- 上海纬纵工程技术有限公司于2005年成立(原上海纬纵化工工程咨询有限公司)
LEECC Engineering & Technology Co., Ltd. Shanghai founded in 2005(Original refer as Lengthwise Engineering & Consulting Co., Ltd.)
- 业务模式: 国际项目+本土资源
Operation: International Project + Local Resource
- 人力资源: 48人, 其中设计团队32人, 模块及项目管理团队11人
Resource: 48 Employees, 32 Engineers, 11 Management, Labor Outsourcing 200+
- 总部地址Home Office
上海松江区区, 涞亭南路路125号
Home Office at No.125, South Laiting Road, Songjiang District, Shanghai
- 模块研发工厂Module Plant
上海市奉贤区川南奉公路9648号
Module plant at No.9648, Chuan Nan Feng Road, Fengxian District, Shanghai

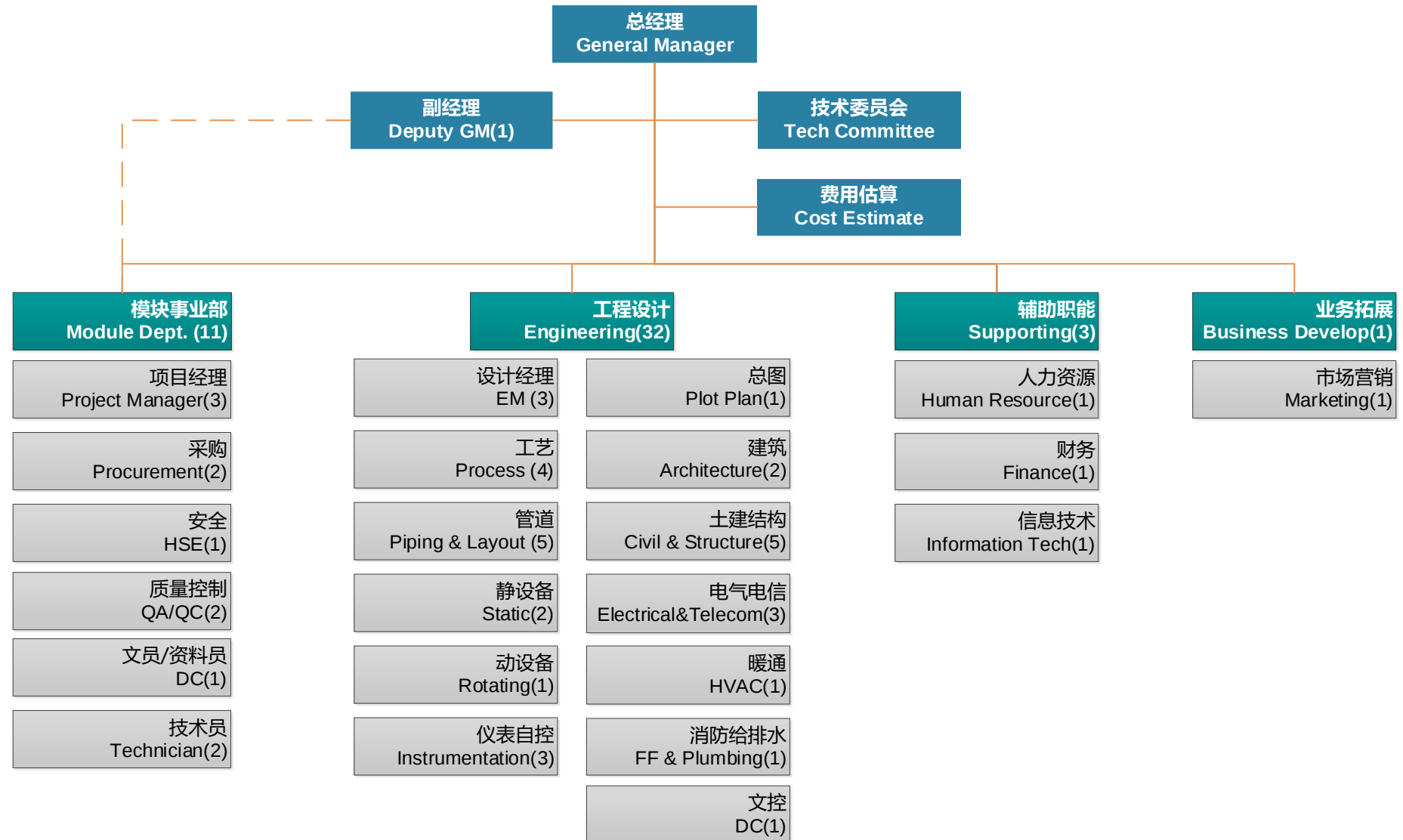


专注以实现客户价值 Realize Customer Value with Focus





组织架构 Organization Chart



人力资源

Human resources with outsourcing



Tianjin Team (ENCO, TCC)

80 Persons, for all discipline

Rm 901, No.1, Rongyuan Road, Xiqing district

Workload forecast 3 months:

50%, 50%, 50%



Shanghai Team

48 Persons, for all discipline

Rm908, F Block, No.125, Laiting nan Road

Workload forecast 3 months:

80%, 70%, 50%



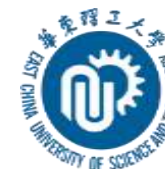
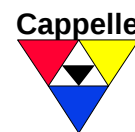


体系认证 Licenses & System Certification





主要客户 Major Client





石化
Petro-Chem



化工
Chemical



医药
Pharmaceutical



食品
Food



环保/新能源
Environmental/New Energy



物流/基础设施
Logistic/Infrastructure

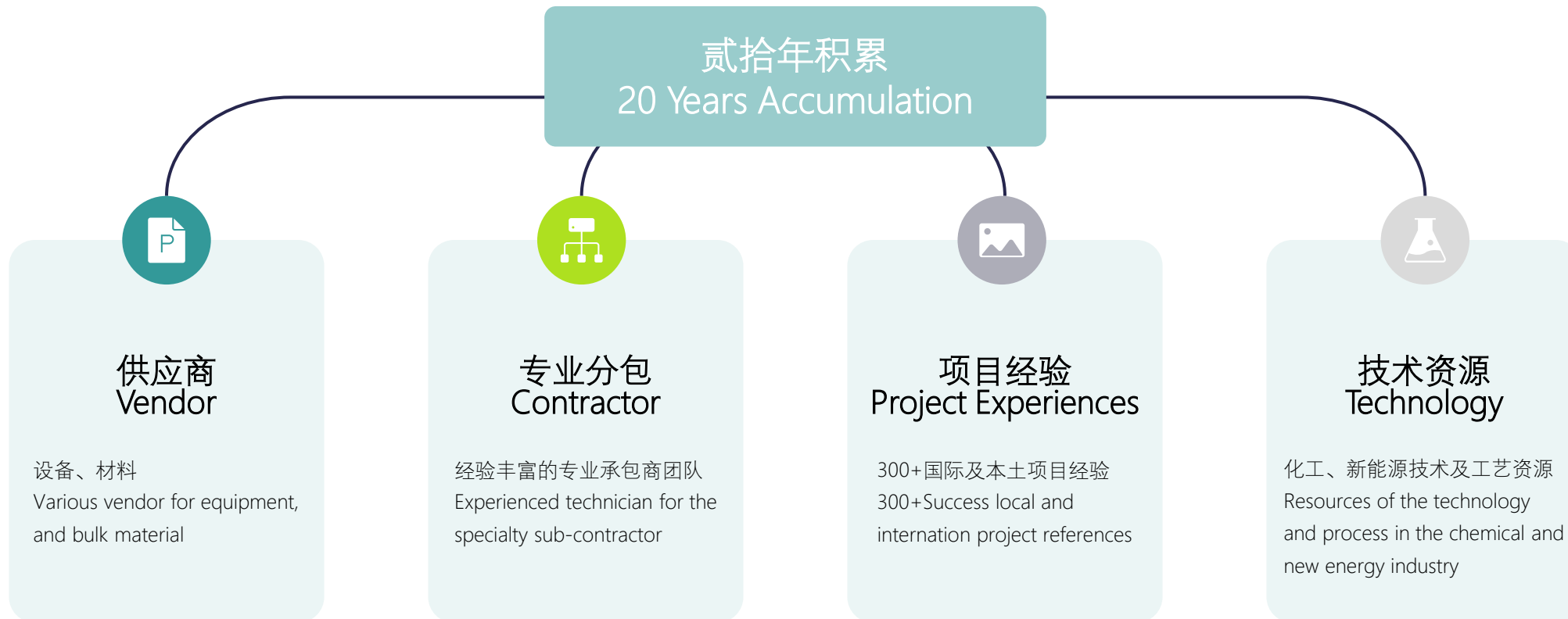


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核心竞争力

Core competitiveness

- 国际项目执行
International
project execution
capacity
- 中国资源
Resources of
China
- 模块化能力
Modularization
Capacity
- 信息技术
Information
Technology
- 质量体系
Quality System





国际项目执行能力

International Project Execution



Understanding

更懂国际客户的需求

Much more understanding in international client's requirement

Philosophy

更理解国际项目的执行逻辑

Well buy-in the philosophy of the international project execution

Contract

更注重契约精神

Pay more attention to the spirit of contract

Codes & Standard

熟练运用国际标准与规范

Skillful application of the International code and standard

Experience

成功的国际项目经验

Proven experience in international project

System

成熟的项目管理体系

Recognized project management system

Team

稳定的核心团队

Stabilized core team



项目管理关键事项检查表 Project Management Key Items Check List

项目启动 PROJECT KICK-OFF

开工会议内部 Kick-off Meeting Internal
开工会议-与业主 Kick-off Meeting Client
基本项目标准 Basic Project Criteria Summary
总体执行计划 **Summary Execution Plan ***
详细的执行计划 **Detailed Execution Plan ***
项目协调程序 **Project Co-ordination Procedure ***
内部/外部会议计划 Schedule of Int./Ext. Meeting
内部周/月报告 Internal Weekly/ Monthly Report
内部月审核材料 Internal Monthly Review Material
业主报告 Client Report
变更登记 Variation Order Register
费用计划评审会议 Cost Plan Review Meeting
工作责任分交矩阵 Split of Responsibility Matrix

项目行政管理 PROJECT ADMINISTRATION

信息工程/计算机策略 IT/Computing Strategy
空间/设施需求 Space/Facility Requirements
项目文件编排系统 Project Filing System
文档分发矩阵 Document Distribution Matrix
程序/规范索引 Procedures/Specifications Index
图纸/文档索引 Drawing/Documentation Index
文件控制系统 Document Control System
团队建设策略 Team Building Strategy

***项目管理必备事项 Project Mang. Mandatory Items**

项目控制 PROJECT CONTROL

项目组织机构确定 Project Organization
项目职位描述 Project Job Descriptions
入职培训策略 Induction strategy
人力资源指派确认 Manpower Assignments
协调会议 Co-ordination Meetings
初步进度 Preliminary Schedule
项目总体控制计划 Overall Project Network
进度计划程序 Planning Procedure
项目质量计划 **Project Quality Plan ***
项目HS&E计划 **Project HS&E Plan ***
关键执行问题记录 **Critical Exe. Issue Records***
关键执行问题索引 **Critical Execution Issue Index ***
风险管理过程 **Risk Management Procedure***

费用控制 COST CONTROL

商业计划 Commercial Considerations Plan
财务审计计划 Financial Audits Program me
费用风险计划 Cost Contingency Plan
月费用审查会议 Monthly Cost Review Meetings
工时预算 Manhour Budgets
人员申请表的登记 PAF Register
详细费用报告/估算 Detailed Cost Report/Estimate
费用趋势报告 Cost Trend Report
变更程序 Variation Order Procedur

采购 PROCUREMENT

采购策略 Procurement Strategy
采购计划 Procurement Schedule
分包策略 Subcontract Strategy
投标商短名单 Bidders List
状态报告 Status Reporting
分包进度计划 Subcontract Programme
材料管理策略 Material Management Strategy

施工/调试 CONST./COMMISSIONING

施工策略 Construction Strategy
施工进度 Construction Schedule
调试策略 Commissioning Strategy
调试进度 Commissioning Schedule
现场组织机构 Field Organization
现场指派 Field Assignments
现场施工进场日期 Site Mobilization Date
发票接收策略 IR Strategy
施工程序 Construction Procedures

项目完工 PROJECT CLOSE-OUT

竣工图纸完成 As-built Drawings Complete
完工报告发表 **Project Close-out Report Issued ***
完工证明接收 Completion Certification Receive
最终发票支付 Final Invoices Paid
文件归档完成 Archiving Complete
履约保函解除 Performance Bonds Released



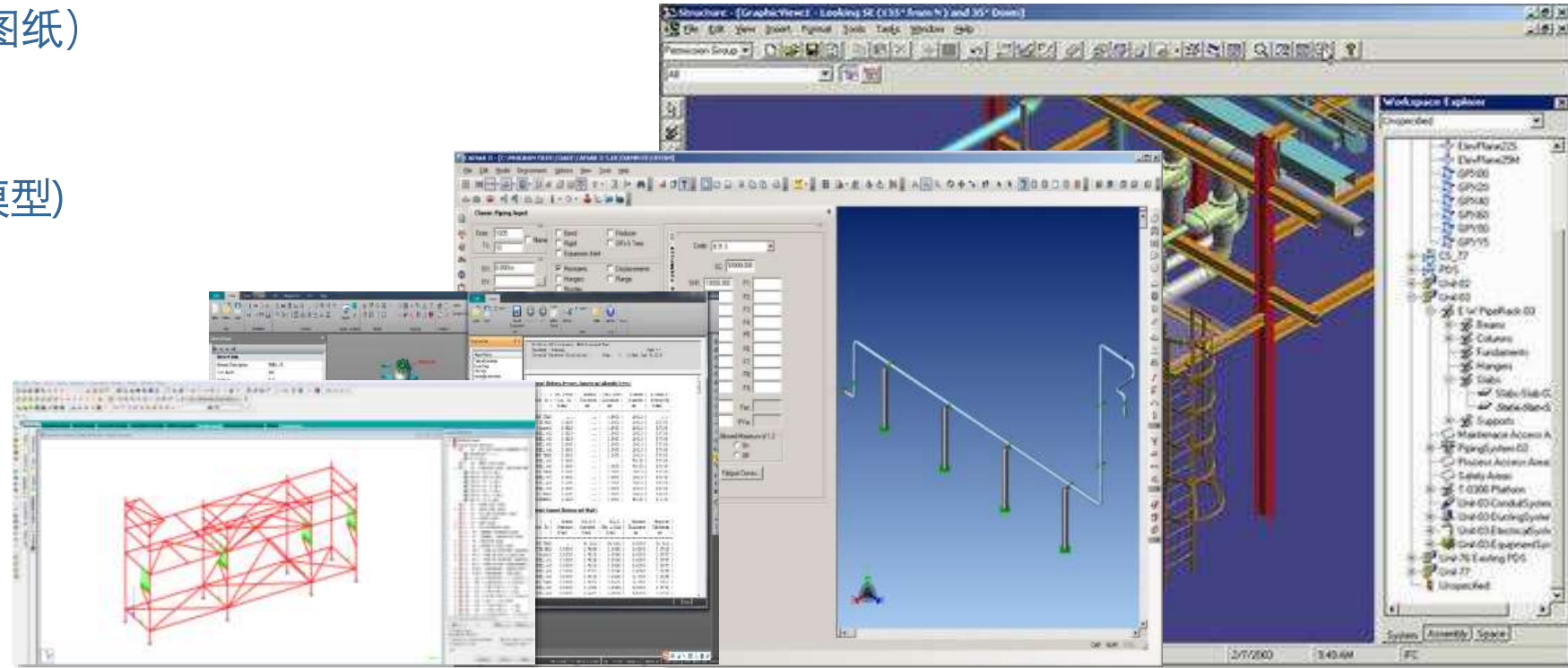
Engineering Execution & Deliverable

设计执行及出版



计算机整体工程 Computer Integrity Engineering(CIE)

- Ether Star LAN with Intranet Mode (网络)
- MS Office, AutoCAD (文件/图纸)
- ASPEN, Pro II (工艺模拟)
- HTRI, EDR (换热器)
- PDS, PDMS, SP3D, etc. (3D模型)
- PKPM, STAAD-PRO (结构)
- ESS2000+, Intools (仪电)
- Carrier Blockload (暖通)
- FASTANK (储罐)
- SW6, PV Elite (静设备)
- CAESARII (应力)
- P6, MS Project (进度计划)
- Teams, Vook(视频会议)





文控程序及管理

Document Controls and Management



000 DESIGN BASIC DOCUMENT	2024/6/18 20:30	文件夹
100 PROJECT MANAGEMENT	2024/4/23 14:30	文件夹
200 PROJECT SCHEDULE & CONTROL	2024/4/23 14:30	文件夹
300 CHINA LOCAL AUTHORITIES	2024/4/23 14:30	文件夹
400 ENGINEERING	2024/6/18 20:30	文件夹
500 PROCUREMENT	2024/4/23 14:30	文件夹
600 CONSTRUCTION INTERFACE	2024	
700 COMMISSIONING	2024	
800 SAFETY, HEALTH & ENVIRONME...	2024	
810 QA-QC	2024	
930 ADMINISTRATION	2024	
940 DIS WORKING FOLDER	2024	
999 DCC DROP-IN	2024	
999 DIS DROP-OUT	2024	

400 Engineering General	2024/8/2 14:56
410 Process	2024/8/16 18:51
420 Piping & Layout	2024/7/23 10:56
431 Plot Plan	2024/4/23 14:30
432 Architecture	2024/4/23 14:31
433 Civil & Structure	2024/4/23 14:30
441 Mechanical	2024/4/23 14:30
442 Machinery&Package	2024/4/23 14:30
450 Electrical & Telecom	2024/4/23 14:30
460 Instrument & Control	2024/4/23 14:30
470 Fire Fighting & Water Plumbing	2024/4/23 14:30
480 HVAC	2024/4/23 14:30

Typical project folder structure

Project folder access right matrix

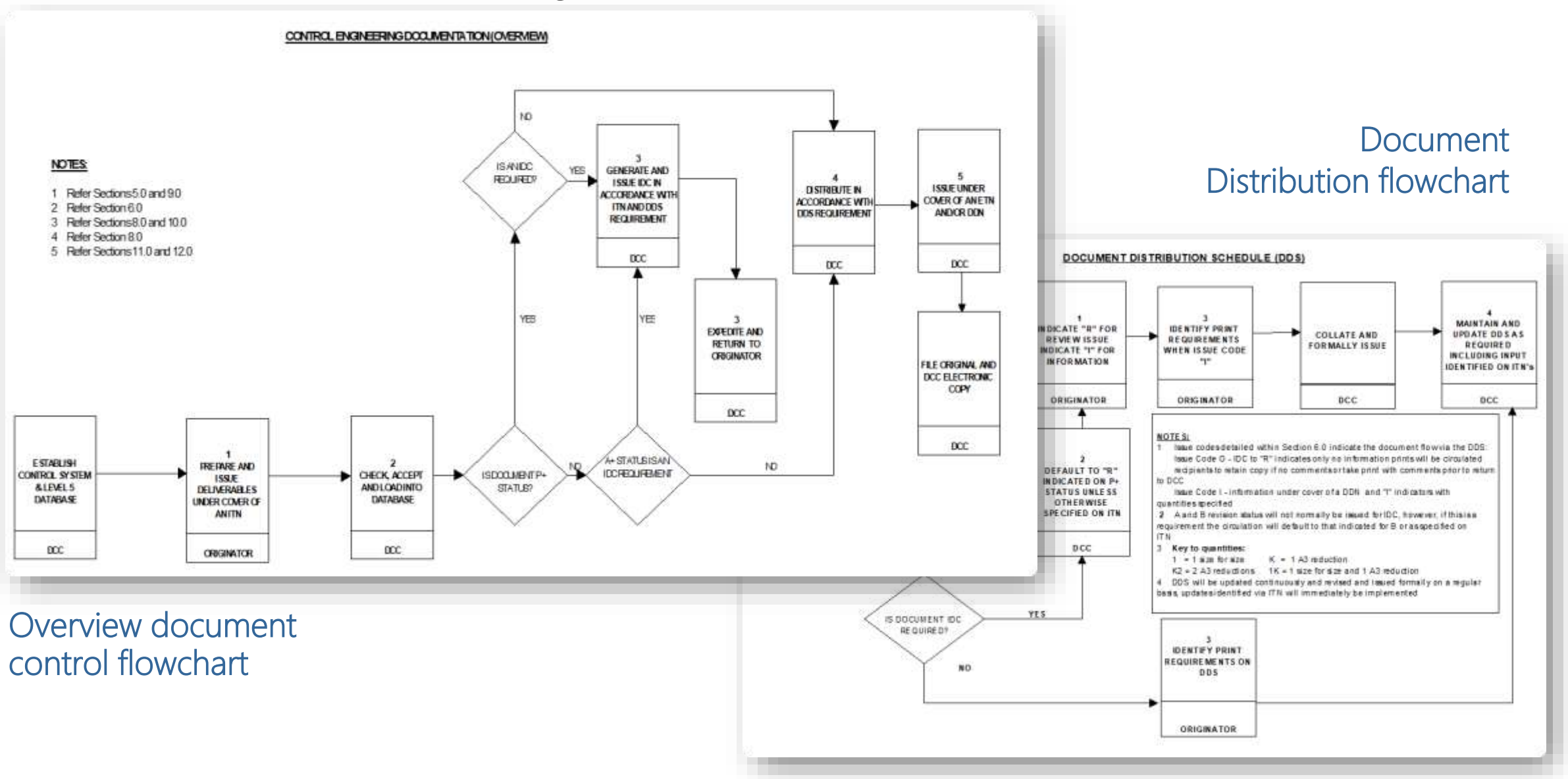
上海海陆重工股份有限公司 SHANGHAI HAILU ENGINEERING CO., LTD. E006 中 006 + 006 中 006 + 006 中 006				DSM		Confidential Class				Document No.							
				Uncontrolled				Project	Area	Dis	Doc	Rev	Rev				
								11A23	100	100	301	002	P01				
FOLDER ACCESS RIGHT																	
DCC Electronic Filing System & Access Matrix																	
FOLDER NAME				PROJECT DISCIPLINES													
PROJECT SERVER	DOMAIN	PRIMARY	SECONDARY	SUB-FOLDERS	Owner	400	410	420	430	440	450	460	470	480	490	500	
					Owner	DESIGN	400	410	420	430	440	450	460	470	480	490	500
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					Owner	DESIGN <td>400</td> <td>410</td> <td>420</td> <td>430</td> <td>440</td> <td>450</td> <td>460</td> <td>470</td> <td>480</td> <td>490</td> <td>500</td>	400	410	420	430	440	450	460	470	480	490	500
PROJECT SERVER	PROJECT BASIC DATA	PROJECT BASIC DATA	PROJECT BASIC DATA	PROJECT BASIC DATA	Owner	DESIGN <td>400</td> <td>410</td> <td>420</td> <td>430</td> <td>440</td> <td>450</td> <td>460</td> <td>470</td> <td>480</td> <td>490</td> <td>500</td>	400	410	420	430	440	450	460	470	480	490	500
					Owner	DESIGN <td>400</td> <td>410</td> <td>420</td> <td>430</td> <td>440</td> <td>450</td> <td>460</td> <td>470</td> <td>480</td> <td>490</td> <td>500</td>	400	410	420	430	440	450	460	470	480	490	500
PROJECT SERVER	PROJECT BASIC DATA	PROJECT BASIC DATA	PROJECT BASIC DATA	PROJECT BASIC DATA	Owner	DESIGN <td>400</td> <td>410</td> <td>420</td> <td>430</td> <td>440</td> <td>450</td> <td>460</td> <td>470</td> <td>480</td> <td>490</td> <td>500</td>	400	410	420	430	440	450	460	470	480	490	500
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PROJECT SERVER	PROJECT BASIC DATA	PROJECT BASIC DATA	PROJECT BASIC DATA	PROJECT BASIC DATA	Owner	DESIGN <td>400</td> <td>410</td> <td>420</td> <td>430</td> <td>440</td> <td>450</td> <td>460</td> <td>470</td> <td>480</td> <td>490</td> <td>500</td>	400	410	420	430	440	450	460	470	480	490	500
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PROJECT SERVER	PROJECT BASIC DATA	PROJECT BASIC DATA	PROJECT BASIC DATA	PROJECT BASIC DATA	Owner	DESIGN <td>400</td> <td>410</td> <td>420</td> <td>430</td> <td>440</td> <td>450</td> <td>460</td> <td>470</td> <td>480</td> <td>490</td> <td>500</td>	400	410	420	430	440	450	460	470	480	490	500
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PROJECT SERVER	PROJECT BASIC DATA	PROJECT BASIC DATA	PROJECT BASIC DATA	PROJECT BASIC DATA	Owner	DESIGN <td>400</td> <td>410</td> <td>420</td> <td>430</td> <td>440</td> <td>450</td> <td>460</td> <td>470</td> <td>480</td> <td>490</td> <td>500</td>	400	410	420	430	440	450	460	470	480	490	500
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PROJECT SERVER	PROJECT BASIC DATA	PROJECT BASIC DATA	PROJECT BASIC DATA	PROJECT BASIC DATA	Owner	DESIGN <td>400</td> <td>410</td> <td>420</td> <td>430</td> <td>440</td> <td>450</td> <td>460</td> <td>470</td> <td>480</td> <td>490</td> <td>500</td>	400	410	420	430	440	450	460	470	480	490	500
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PROJECT SERVER	PROJECT BASIC DATA	PROJECT BASIC DATA	PROJECT BASIC DATA	PROJECT BASIC DATA	Owner	DESIGN <td>400</td> <td>410</td> <td>420</td> <td>430</td> <td>440</td> <td>450</td> <td>460</td> <td>470</td> <td>480</td> <td>490</td> <td>500</td>	400	410	420	430	440	450	460	470	480	490	500
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PROJECT SERVER	PROJECT BASIC DATA	PROJECT BASIC DATA	PROJECT BASIC DATA	PROJECT BASIC DATA	Owner	DESIGN <td>400</td> <td>410</td> <td>420</td> <td>430</td> <td>440</td> <td>450</td> <td>460</td> <td>470</td> <td>480</td> <td>490</td> <td>500</td>	400	410	420	430	440	450	460	470	480	490	500
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PROJECT SERVER	PROJECT BASIC DATA	PROJECT BASIC DATA	PROJECT BASIC DATA	PROJECT BASIC DATA	Owner	DESIGN <td>400</td> <td>410</td> <td>420</td> <td>430</td> <td>440</td> <td>450</td> <td>460</td> <td>470</td> <td>480</td> <td>490</td> <td>500</td>	400	410	420	430	440	450	460	470	480	490	500
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PROJECT SERVER	PROJECT BASIC DATA	PROJECT BASIC DATA	PROJECT BASIC DATA	PROJECT BASIC DATA	Owner	DESIGN <td>400</td> <td>410</td> <td>420</td> <td>430</td> <td>440</td> <td>450</td> <td>460</td> <td>470</td> <td>480</td> <td>490</td> <td>500</td>	400	410	420	430	440	450	460	470	480	490	500
					Owner	DESIGN <td>400</td> <td>410</td> <td>420</td> <td>430</td> <td>440</td> <td>450</td> <td>460</td> <td>470</td> <td>480</td> <td>490</td> <td>500</td>	400	410	420	430	440	450	460	470	480	490	500
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PROJECT SERVER	PROJECT BASIC DATA	PROJECT BASIC DATA	PROJECT BASIC DATA	PROJECT BASIC DATA	Owner	DESIGN <td>400</td> <td>410</td> <td>420</td> <td>430</td> <td>440</td> <td>450</td> <td>460</td> <td>470</td> <td>480</td> <td>490</td> <td>500</td>	400	410	420	430	440	450	460	470	480	490	500
					Owner	DESIGN <td>400</td> <td>410</td> <td>420</td> <td>430</td> <td>440</td> <td>450</td> <td>460</td> <td>470</td> <td>480</td> <td>490</td> <td>500</td>	400	410	420	430	440	450	460	470	480	490	500
PROJECT SERVER	PROJECT BASIC DATA	PROJECT BASIC DATA	PROJECT BASIC DATA	PROJECT BASIC DATA	Owner	DESIGN <td>400</td> <td>410</td> <td>420</td> <td>430</td> <td>440</td> <td>450</td> <td>460</td> <td>470</td> <td>480</td> <td>490</td> <td>500</td>	400	410	420	430	440	450	460	470	480	490	500
					Owner	DESIGN <td>400</td> <td>410</td> <td>420</td> <td>430</td> <td>440</td> <td>450</td> <td>460</td> <td>470</td> <td>480</td> <td>490</td> <td>500</td>	400	410	420	430	440	450	460	470	480	490	500
PROJECT SERVER	PROJECT BASIC DATA	PROJECT BASIC DATA	PROJECT BASIC DATA	PROJECT BASIC DATA	Owner	DESIGN <td>400</td> <td>410</td> <td>420</td> <td>430</td> <td>440</td> <td>450</td> <td>460</td> <td>470</td> <td>480</td> <td>490</td> <td>500</td>	400	410	420	430	440	450	460	470	480	490	500
					Owner	DESIGN <td>400</td> <td>410</td> <td>420</td> <td>430</td> <td>440</td> <td>450</td> <td>460</td> <td>470</td> <td>480</td> <td>490</td> <td>500</td>	400	410	420	430	440	450	460	470	480	490	500
PROJECT SERVER	PROJECT BASIC DATA	PROJECT BASIC DATA	PROJECT BASIC DATA	PROJECT BASIC DATA	Owner	DESIGN <td>400</td> <td>410</td> <td>420</td> <td>430</td> <td>440</td> <td>450</td> <td>460</td> <td>470</td> <td>480</td> <td>490</td> <td>500</td>	400	410	420	430	440	450	460	470	480	490	500
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文控程序及管理

Document Controls and Management



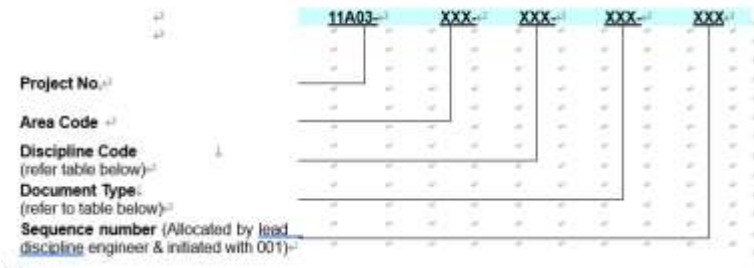
Document Distribution flowchart



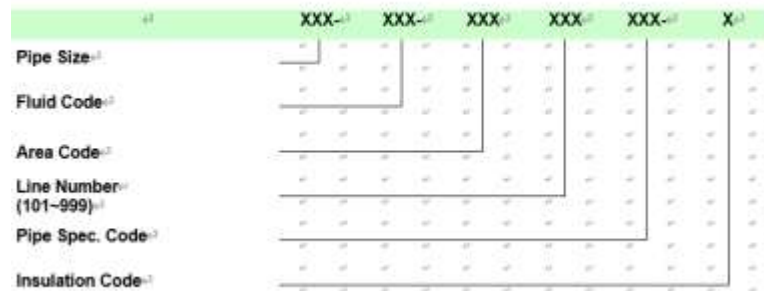
文控程序及管理 Document Controls and Management



Numbering system as:-



Pipe line numbering philosophy as follows:-



Numbering system
example

Version control
System example

Standard Revision Code ¹									
Document Type ²		Revisions ³							
		P01 ⁴	P01+ ⁵	A00 ⁶	A01 ⁷	A01+ ⁸	C00 ⁹	C01 ¹⁰	Z00 ¹¹
Drawings ¹²	Sketches (SKH) ¹³	Preliminary ¹⁴	Issued for Comment ¹⁵	Issue for AFD ¹⁶	Approved for Design ¹⁷	¹⁸	¹⁹	²⁰	²¹
	Base Design Drawing (P&ID etc) ²²	Preliminary ²³	Issued for Comment ²⁴	Issue for AFD ²⁵	Approved for Design ²⁶	²⁷	Issue for AFD(note1) ²⁸	Approved for Construction ²⁹	As-Built ³⁰
	Drawings/Schedules (Maintained) ³¹	Preliminary ³²	Issued for Comment ³³	³⁴	³⁵	³⁶	Issue for AFD(note1) ³⁷	Approved for Construction ³⁸	As-Built ³⁹
	Drawings/Schedules (For Construction) ⁴⁰	Preliminary ⁴¹	Issued for Comment ⁴²	⁴³	⁴⁴	⁴⁵	Issue for AFD(note1) ⁴⁶	Approved for Construction ⁴⁷	⁴⁸
Design Documents ⁴⁹	Survey Report (OSR) ⁵⁰	Preliminary ⁵¹	Issued for Comment ⁵²	Issue for AFD ⁵³	Approved for Design ⁵⁴	⁵⁵	⁵⁶	⁵⁷	⁵⁸
	Data Sheet (DAT) ⁵⁹	Preliminary ⁶⁰	Issued for Comment ⁶¹	Issue for AFD ⁶²	Approved for Design ⁶³	Approved for Purchase ⁶⁴	Issue for AFD(note1) ⁶⁵	Approved for Construction ⁶⁶	As-Built ⁶⁷
	Design Philosophy (PHL) ⁶⁸	Preliminary ⁶⁹	Issued for Comment ⁷⁰	Issue for AFD ⁷¹	Approved for Design ⁷²	⁷³	⁷⁴	⁷⁵	⁷⁶
	Calculation (CAL) ⁷⁷	Preliminary ⁷⁸	Issued for Comment ⁷⁹	Issue for AFD ⁸⁰	Approved for Design ⁸¹	⁸²	⁸³	⁸⁴	⁸⁵
	Stress Analysis Report(RPT) ⁸⁶	Preliminary ⁸⁷	Issued for Comment ⁸⁸	Issue for AFD ⁸⁹	Approved for Design ⁹⁰	⁹¹	⁹²	⁹³	⁹⁴
Purchasing Doc. ⁹⁵	Requisition (REQ) ⁹⁶	Preliminary ⁹⁷	Issued for Comment ⁹⁸	Issue for AFD ⁹⁹	Approved for Enquiry ¹⁰⁰	Approved for Purchase ¹⁰¹	¹⁰²	¹⁰³	¹⁰⁴
	Equipment Specification(SPC) ¹⁰⁵	Preliminary ¹⁰⁶	Issued for Comment ¹⁰⁷	Issue for AFD ¹⁰⁸	Approved for Enquiry ¹⁰⁹	Approved for Purchase ¹¹⁰	¹¹¹	¹¹²	¹¹³
	Technical Bid Evaluation(TBA) ¹¹⁴	Preliminary ¹¹⁵	Issued for Comment ¹¹⁶	¹¹⁷	¹¹⁸	Approved for Purchase ¹¹⁹	¹²⁰	¹²¹	¹²²



前期设计交付 FEED Deliverables



Project	Area/Unit	Dist	Doc	No.	Rev	Sheets
11A03	100	100	LST	001	A01	5
DELIVERABLE LIST 文件目录						
Basic Design 基础设计						
Client	DSM Zibo Pharmaceutical Co. Ltd.	Job No.	11A03			
Location	Zibo, Shandong	Phase	Basic Design			
Plant	DSM project 山东鲁南医药产业园	Area	主项			
Item	Doc/Dwg description	Doc/Dwg No.	Rev	Refer/Std Dwg	Sheet	Size
3.5	EQUIPMENT LIST	MB-001			11	A3
3.6	Line List	11A03-100-410-LST-001	A01		11	A3
3.7	P&ID (Process & UT)	11A03-100-410-PID-001-008 11A03-100-410-UT-001-009	A01		40	A1
3.8	Preliminary ULDe	11A03-100-410-UL-001-009	A01		6	A1
3.9	Utility Consumption & Summary	11A03-100-410-LST-003	A01		7	A3
3.10	Equipment Data Sheets	11A03-100-410-D-001-307	A01		150	A4
3.11	PSV Datasheet	11A03-410-100-D-001-502	A01		2	A4
3.12	Calculation of Tank Bayonet	11A03-100-410-C-AL-101-104	A01		4	A4
3.13	Pump Calculation	11A03-100-410-CAL-001-042	A01		42	A3
3.14	Cause & Effect	11A03-100-410-C-CE-001	A01		4	A3
3.15	Alarm & Trip List	11A03-100-410-LST-004	A01		9	A4
4	SECTION 4-PIPING					
4.1	Piping deliverable list	11A03-100-420-LST-001	A01		2	A4

第 2 页 共 13 页

Deliverable List

Project	Area/Unit	Dist	Doc	No.	Rev	Sheets
11A03	100	100	LST	001	A01	5
DELIVERABLE LIST 文件目录						
Basic Design 基础设计						
Client	DSM Zibo Pharmaceutical Co. Ltd.	Job No.	11A03			
Location	Zibo, Shandong	Phase	Basic Design			
Plant	DSM project 山东鲁南医药产业园	Area	主项			
Item	Doc/Dwg description	Doc/Dwg No.	Rev	Refer/Std Dwg	Sheet	Size
3.5	EQUIPMENT LIST	MB-001			11	A3
3.6	Line List	11A03-100-410-LST-001	A01		11	A3
3.7	P&ID (Process & UT)	11A03-100-410-PID-001-008 11A03-100-410-UT-001-009	A01		40	A1
3.8	Preliminary ULDe	11A03-100-410-UL-001-009	A01		6	A1
3.9	Utility Consumption & Summary	11A03-100-410-LST-003	A01		7	A3
3.10	Equipment Data Sheets	11A03-100-410-D-001-307	A01		150	A4
3.11	PSV Datasheet	11A03-410-100-D-001-502	A01		2	A4
3.12	Calculation of Tank Bayonet	11A03-100-410-C-AL-101-104	A01		4	A4
3.13	Pump Calculation	11A03-100-410-CAL-001-042	A01		42	A3
3.14	Cause & Effect	11A03-100-410-C-CE-001	A01		4	A3
3.15	Alarm & Trip List	11A03-100-410-LST-004	A01		9	A4
4	SECTION 4-PIPING					
4.1	Piping deliverable list	11A03-100-420-LST-001	A01		2	A4

第 4 页 共 11 页

Final deliverable folder structure

SECTION 1-PROJECT GENERAL

SECTION 2-LICENSOR DATA

SECTION 3-PROCESS

SECTION 4-PIPING

SECTION 5-PLOT PLAN

SECTION 6-ARCHITECTURE

SECTION 7-STRUCTURE

SECTION 8-MECHANICAL

SECTION 9-MACHINERY

SECTION 10-ELECTRICAL

SECTION 11-TELECOM

SECTION 12-INSTRUMENT

SECTION 13-FF & PLUMBING

SECTION 14-HVAC

SECTION 15-COST ESTIMATE

11A03-100-100-LST-001 Rev A01 Project Deliv

Proposal Cover

3.1 Basis for Study

3.2 Process Flow Scheme

3.3 Mass Balance

3.4 Equipment List

3.5 Utility Spec and Site Condition

3.6 P&ID

3.7 Line List

3.8 Utility consumption

3.9 Equipment Datasheet

3.10 Calculation

3.11 Cause&Effect and Alarm

11A03-100-410-LST-001 Rev A01 Pro...



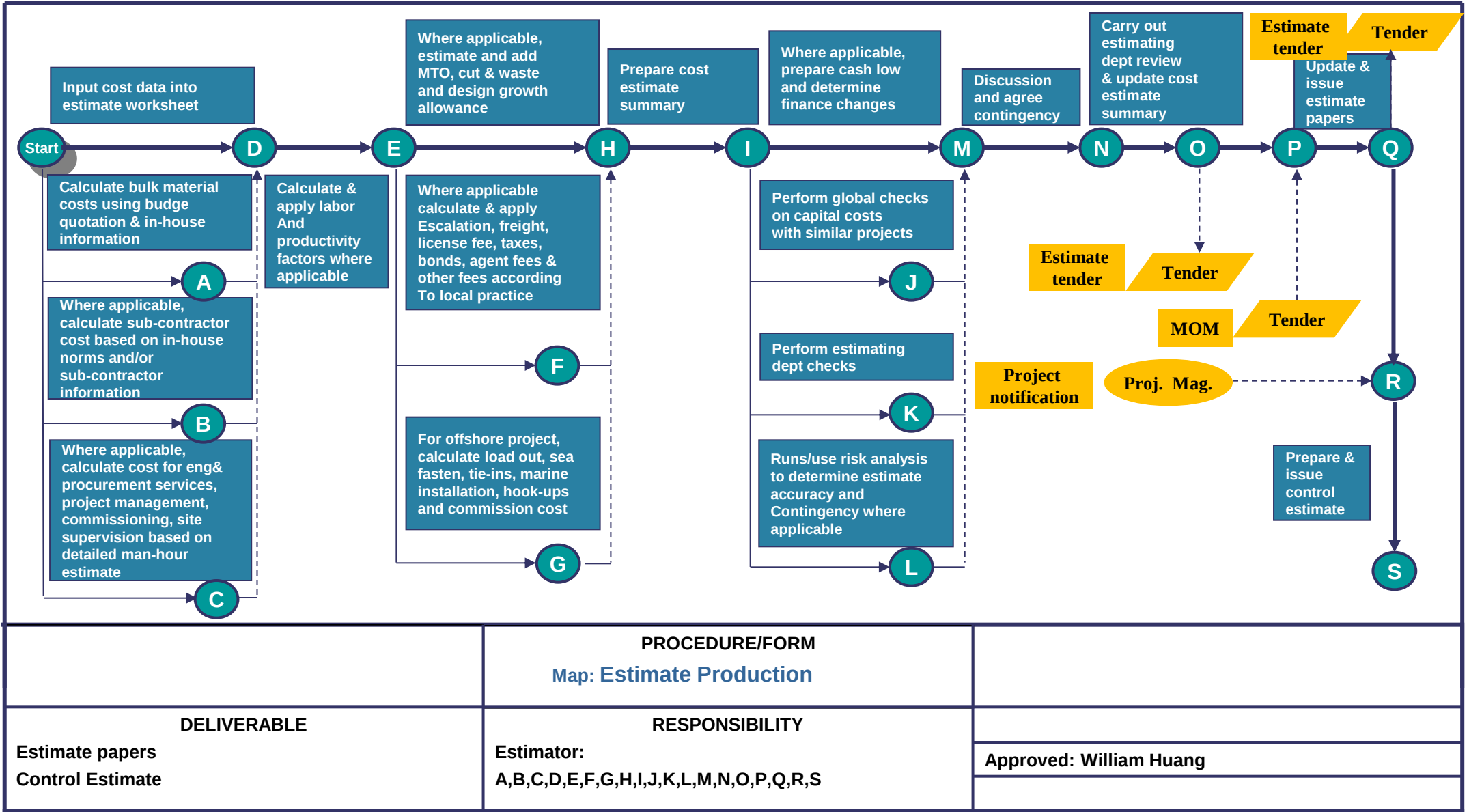
Cost Estimation Procedure & Execution

费用估算程序及执行



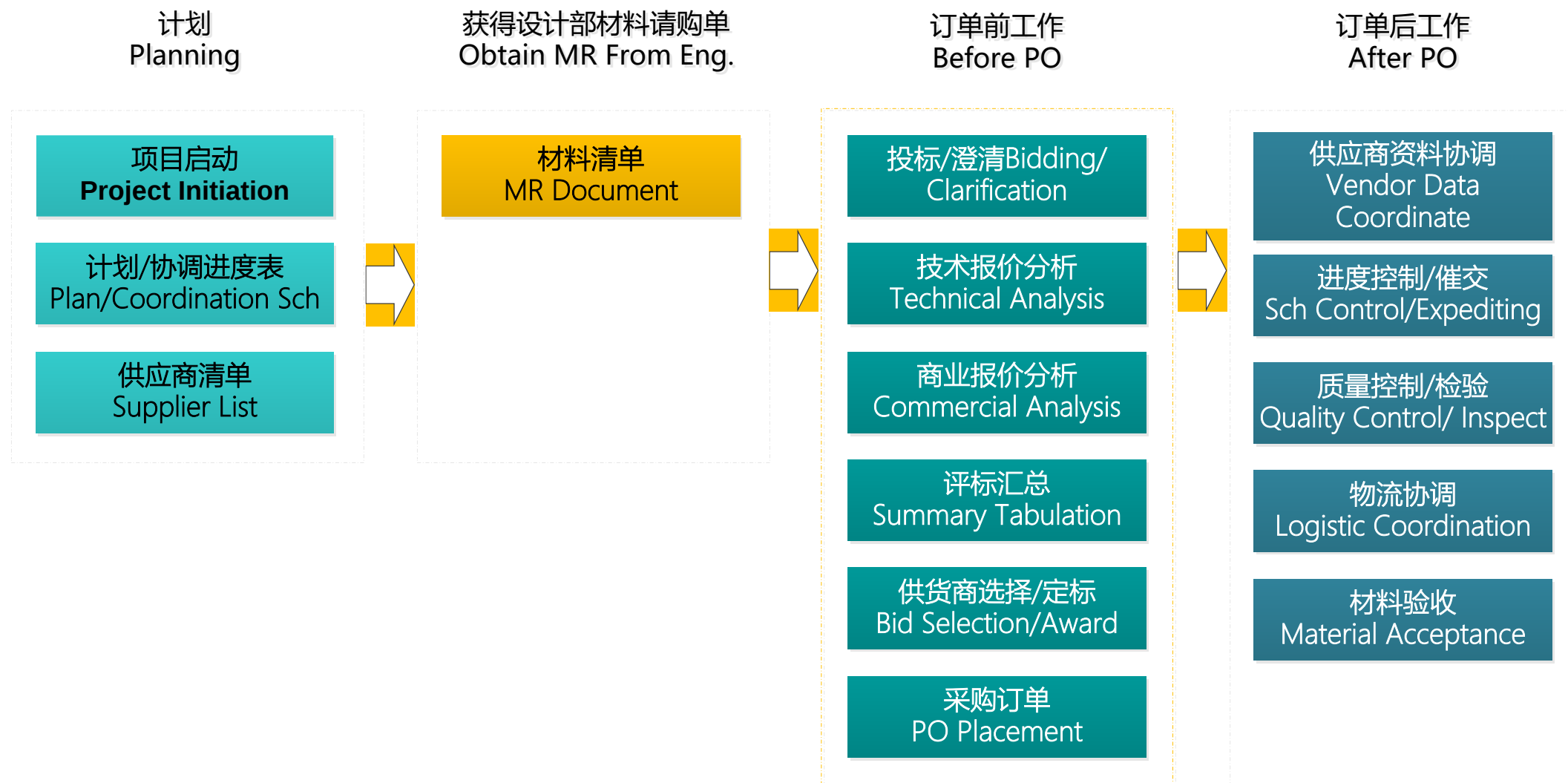
费用估算路径图

Cost estimation – Road Map



Procurement Management Services & Local Vendor list

采购管理程序/执行，及本地供应商数据库





供应商数据库
Vendors



Nr	Vendor Name	Address	Location	Contact Name	Phone & Fax	Email Address	Industrial Involvement	Scope Capability
1 Static Equipment								
1.1 Reactor Column & Pressure Vessels								
1	Nanjing Chemical Industrial (Group) Chemical Machinery Works 南京化学工业(集团)公司化工机械厂	Dachang District Nanjing Jiangsu 210048 江苏省南京市大厂区	Jiangsu	Mo Weimin 莫为明	Tel:025-7791262 Fax:025-7793622 BJ: 64223768		Acetic acid reactor, Ammonia converter, pressure vessel and heat exchanger, agitators, Purifiers, storage tank, tanks, agitator, Spherical tanks	Cold Rolling (thickness x width): 80x3000mm Press Head: q235Bx120, Lifting: 20t+14t Heat Treatment Furnace (W x H x L): 5.5x5.5x17m, RT: 250mm
2	Shanghai Boiler Works 上海锅炉厂	No. 250 Huayin Road, Minghang District, Shanghai 上海闵行区银路250号	Shanghai	Ma Yiming 马一鸣 Lu Ming 陆明 Li Wei 立伟	Tel:021- 9430065/5670799/588 2907/5643023/91, 6222543/535854/6430198 9/5878766/5876243 Fax:021- 6430198/58855703		Utility boiler, industrial boiler, high pressure chemical vessel, nuclear pressure vessel, pressure vessel and heat exchanger, agitators, Spherical tanks, Purifiers	Cold Rolling (thickness x width): 100x4500mm, Press Head: q235Bx120, Lifting: 200t+20t, Heat Treatment Furnace (W x H x L): 7.5x4.5x20m, RT: 400mm, Boiler Capacity: 1525t/h
3	Southwest Chemical Machinery Co., Ltd. 西南化机股份有限公司	Shifang City, Sichuan 618407 四川什邡	Sichuan	Guo Zhi 郭志 Zuo 左	Tel:0838-8301624, 8216607 Fax:0838- 8204843		Steam turbine condenser, spherical tank, column, pressure vessel and heat exchanger, fabrication	Cold Rolling (thickness x width): 55x2500mm Press Head: q235Bx100, Lifting: 100t+100t Heat Treatment Furnace (W x H x L): 5x5x10m, RT: 150mm
4	Shanghai Power Equipment Co. 上海动力设备有限公司	No. 2200 Yanshu Road Shanghai 200090	Shanghai	Yang Guang 杨光	Tel Fax:021-65430371		Vessels & Tanks, Exchangers	Cold Rolling (thickness x width): 75x2000mm Press Head: q235Bx100, Lifting: 150t+50t Heat Treatment Furnace (W x H x L): 4.5 x 4.5 x 16 m, RT: 300mm
5	Jinxi Chemical Machinery Plant 锦西化工机械厂	No. 25 Huaji Road, Lianshan District, Huludao City 126001 Liaoning 辽宁省葫芦岛市连山区	Liaoning	Cai Wenquan 蔡文权	Tel:0429-2126263 Fax:0429-2126260		Stainless steel electro-polishing tanks & vessels, urea synthesizer tanks, vessels & exchangers, pressure vessel and heat exchanger, agitators, storage tanks, tank agitator	Cold Rolling (thickness x width): 70x3000mm Press Head: q200Bx180, Lifting: 200t+70t Heat Treatment Furnace (W x H x L): 4 x 4 x 4.4 x 22.5m, RT: 350mm, Electro-Polishing: q 400x1600mm Roughness: 0.05
6	Jilin Chemical Industry Corporation Machinery Factory 吉林化学工业公司机械厂	No. 9 East Zunyi Road, Jilin City, Jilin 132021 吉林省吉林市遵义路9号	Jilin	Lu Fengchun 陆凤春	Tel:0432-3038113 Fax:0432-3037061		Pressure vessel and heat exchanger, fabrication, storage tanks, Railway tanks & Containers, Tank agitator	Cold Rolling (thickness x width): 75x3000mm Press Head: q235Bx120, Lifting: 200t+200t Heat Treatment Furnace (W x H x L): 3.5 x 3.5 x 16m, RT: 300mm
7	Beijing Yanshan Petrochemical Co. Machinery Factory 北京燕山石化化工公司机械厂	No. 1 Gangbei Road, Yanshan District, 102902 北京市燕山区	Beijing	Li Jingzhan 李景展	Tel:010-69347643 Fax:010-69347643		Pressure vessel and heat exchanger, fabrication, spiral shell reactor, pressure vessels, towers, railway tank, iron oxide pump, Storage tanks, tank agitator, spiral tank	Cold Rolling (thickness x width): 45x3000mm Press Head: q220Bx100, Lifting: 100t+50t Heat Treatment Furnace (W x H x L): 4 x 4 x 20m, RT: 300mm
8	Lanzhou Petrochemical Machinery Plant 兰州石化机械厂	112 Xijie Road(W), Lanzhou 730050 Gansu 甘肃省兰州市西津西路112号	Gansu	Xie Li 谢丽	Tel:0931-2336896 Fax:0931-2346907		Pressure vessel and heat exchanger, fabric, agitator, Purifier, storage tanks, tank agitator, Hydrogenating reactor, urea synthesizer, spherical tank	Cold Rolling (thickness x width): 80x3000mm Press Head: q300Bx300, Lifting: 300t+300t Heat Treatment Furnace (W x H x L): 4 x 4 x 30m, RT: 350mm
9	Jinzhou Heavy Machinery Plant 金州重型机械厂	No. 6 Longwan Road, Jinzhou district, Dalian 116100 辽宁省大连市金州区龙湾路6号	Liaoning	Liu Haiying 刘海鹰	Tel:0411- 7660093/7660112 Fax:0411- 7660067/7660380		Pressure vessel and heat exchanger, agitators, tank agitator, Ammonia converter, spherical storage tank, H.P. compressor, scrubber, heat exchanger, spherical tank	Cold Rolling (thickness x width): 75x3000mm Press Head: q200Bx120, Lifting: 200t+200t Heat Treatment Furnace (W x H x L): 3 x 3 x 20m, RT: 350mm
10	Dongfang Boiler (Group) Co., Ltd. 东方锅炉(集团)股份有限公司	Wuxin Street, Zigong City, Sichuan Province P.C. 643001 四川省自贡市五星街	Sichuan	Jiang Guojian 姜国健	Tel:0813- 4732216/4732184 Fax:0813-2203200		Boiler & Pressure Vessels	Cold Rolling (thickness x width): 150x4200mm, Press Head: q200Bx120, Lifting: 30t, Heat Treatment Furnace (W x H x L): 4.2x4.5x24m, RT: 400mm, Boiler Capacity: 2510t/h

3000+ Vendor sourcing
for
Mechanical equipment
Machinery equipment
Electrical
Instrument
Bulk material
Etc.

名称	修改日期
CBA	2018/11/1 9:54
ITB	2018/11/1 9:54
MRQ-M24	2018/11/1 9:54
PO	2018/11/1 9:54
T8A	2018/11/1 9:54
VP	2018/11/1 9:54
技术标书	2018/11/1 9:54
技术澄清	2018/11/1 9:54
招标投标函	2018/11/1 9:54


KINGMIX

COMMERCIAL BID APPRAISAL

Document No.

燃气输配工程

Project Information

Project Title

Date of Issuance

Location of Project

Contract Type

Contract Value

Contract Duration

Contract Conditions

Contract Documents

Contract Terms

Contract Conditions

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Contract Terms

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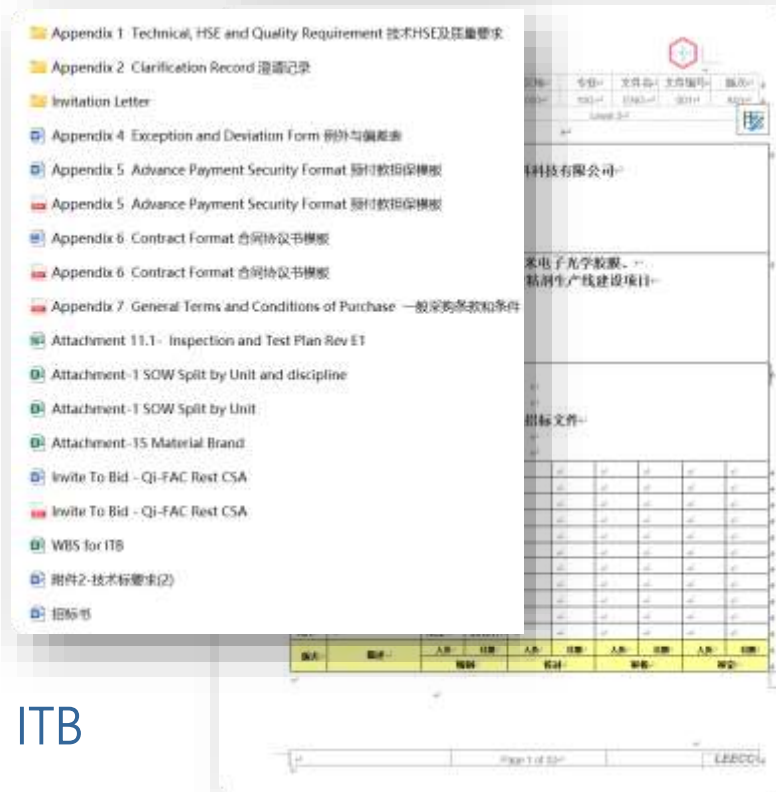
Contract Terms

TBA
Commercial bidding
analysis

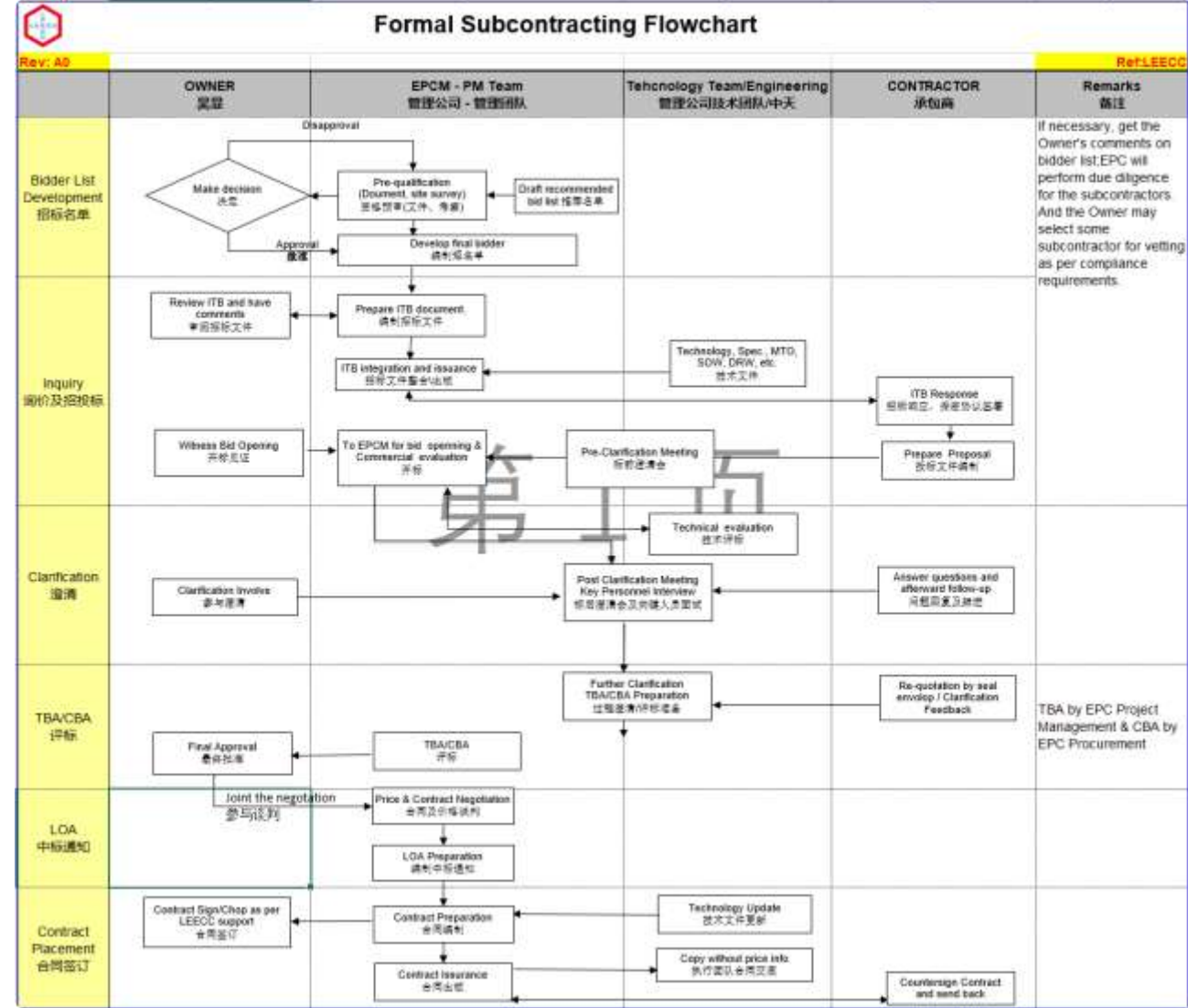
TBA
Technical bidding analysis



分包管理 Contracting



ITB



Contracting flowchart

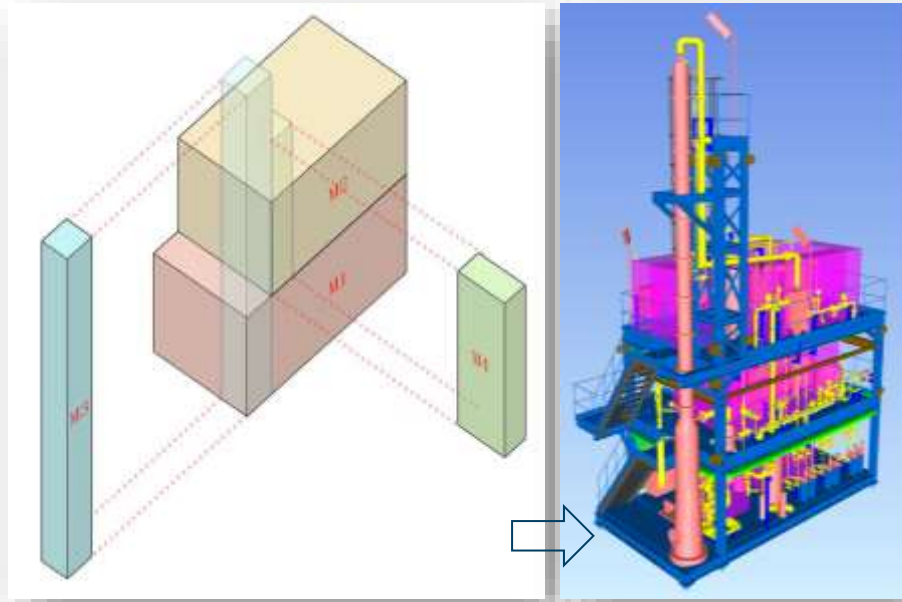


Modularization Engineering Execution- Skid Mounted

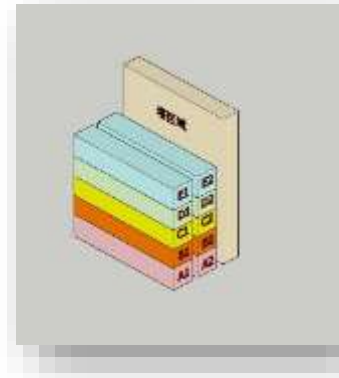
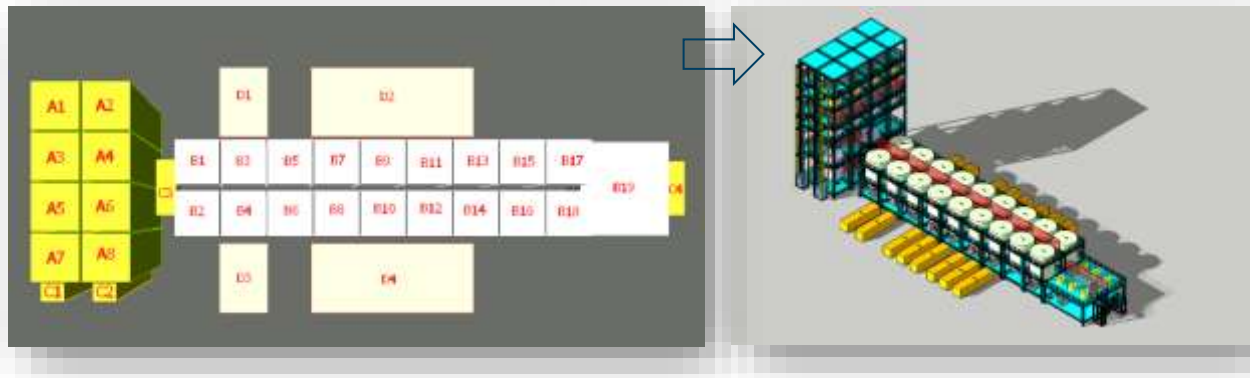
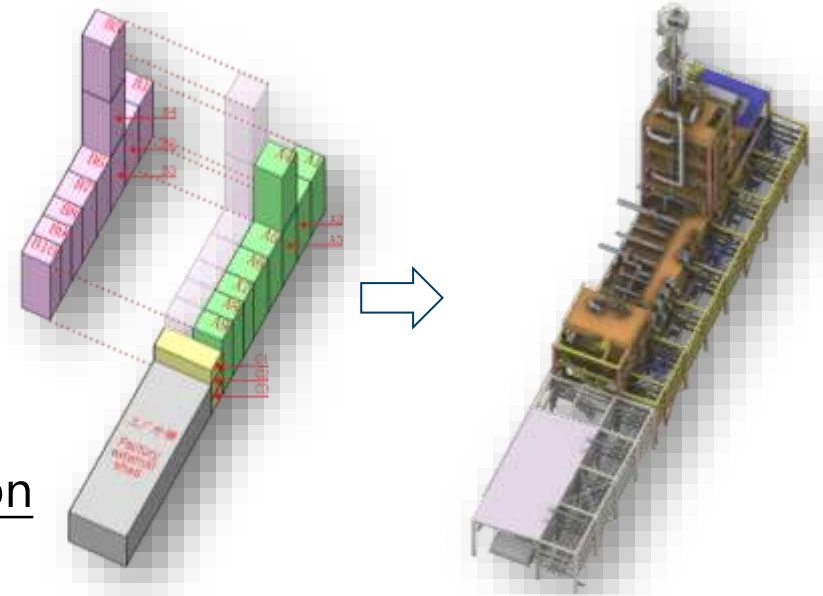
撬装式组合模块化项目执行



模块切分研究 Module Cut Study

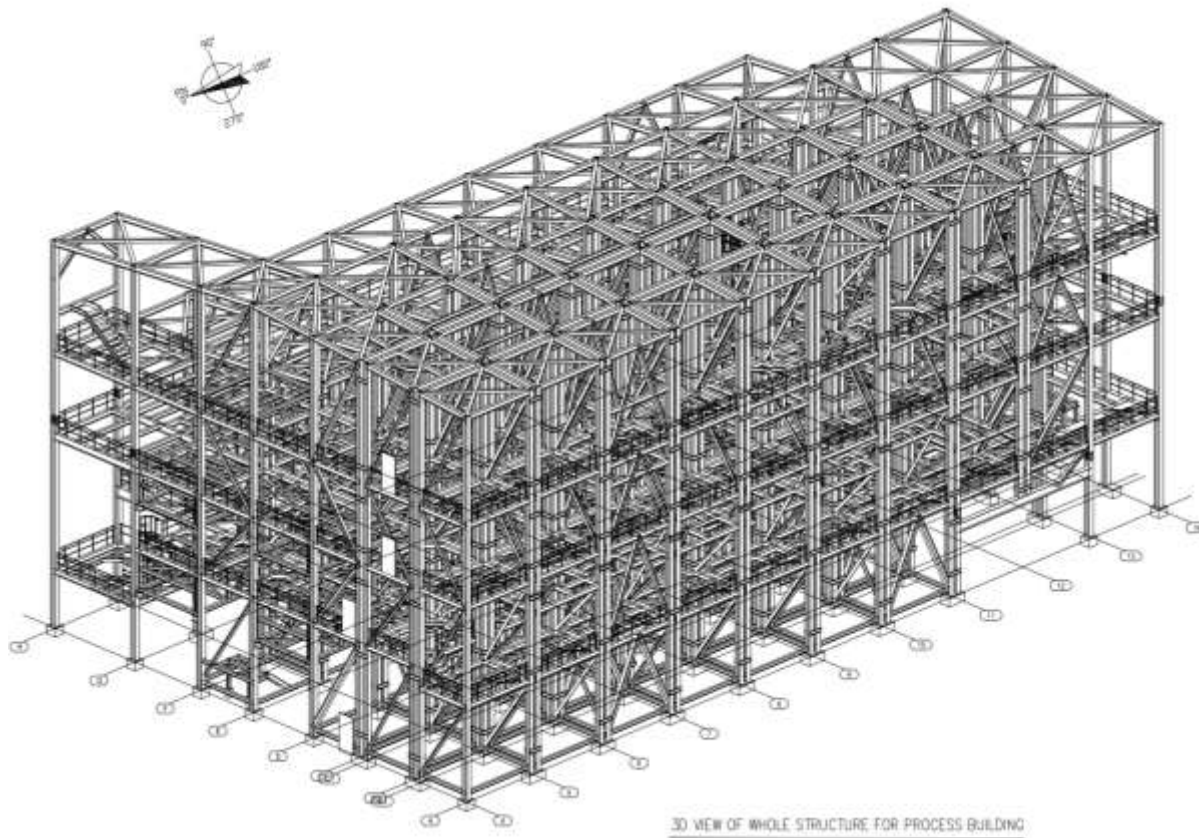


Model Cut & Partition
模块切分研究

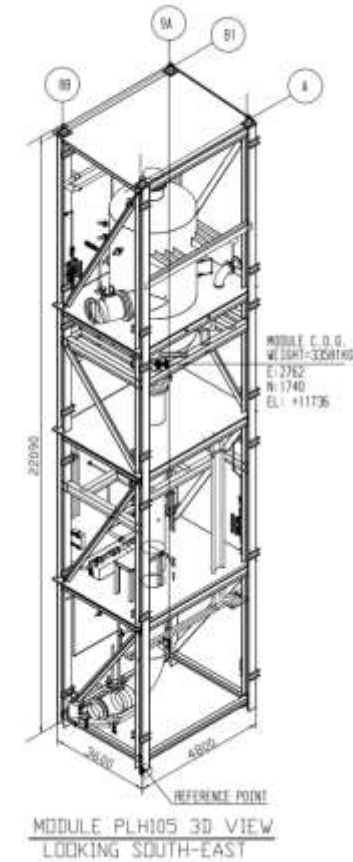




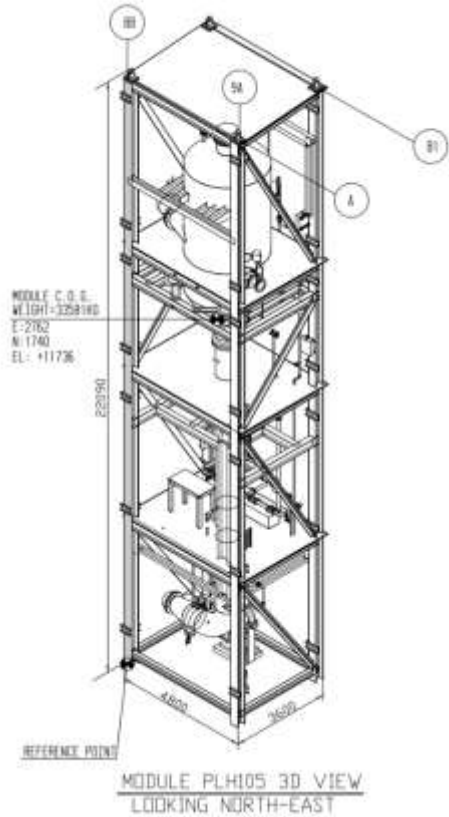
模块计算 Module Calculation



3D VIEW OF WHOLE STRUCTURE FOR PROCESS BUILDING



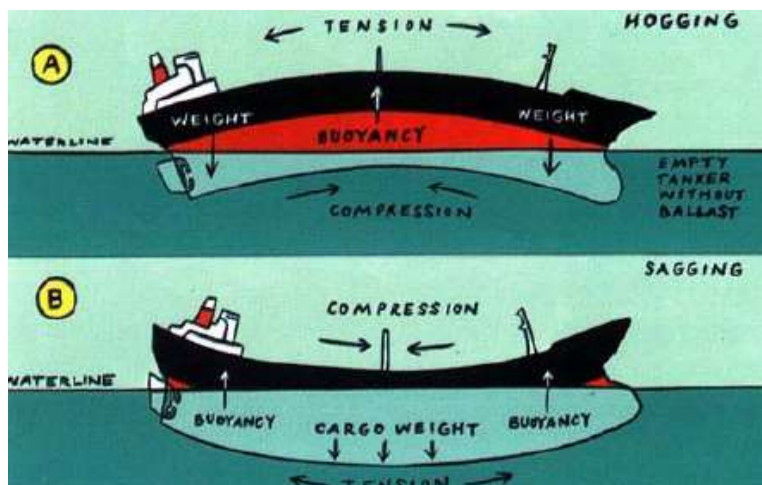
MODULE PLH105 3D VIEW
LOOKING SOUTH-EAST



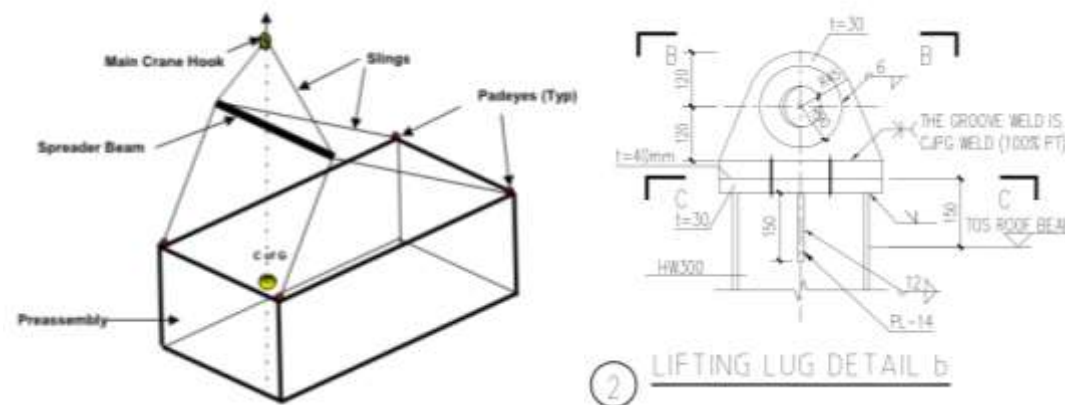
MODULE PLH105 3D VIEW
LOOKING NORTH-EAST

Integral Structure Calculation
整体厂房模拟计算

Individual Module Structure Calculation
单个模块模拟计算

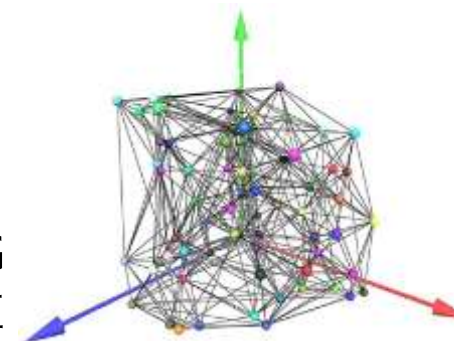


Sea transportation design 海运工况设计

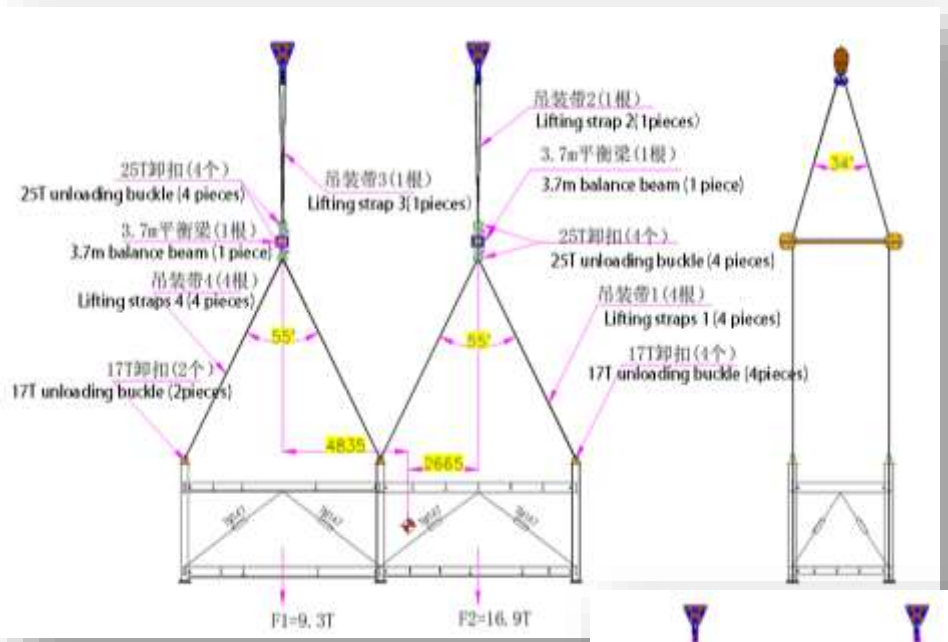


Lifting point calculation and lifting lug design

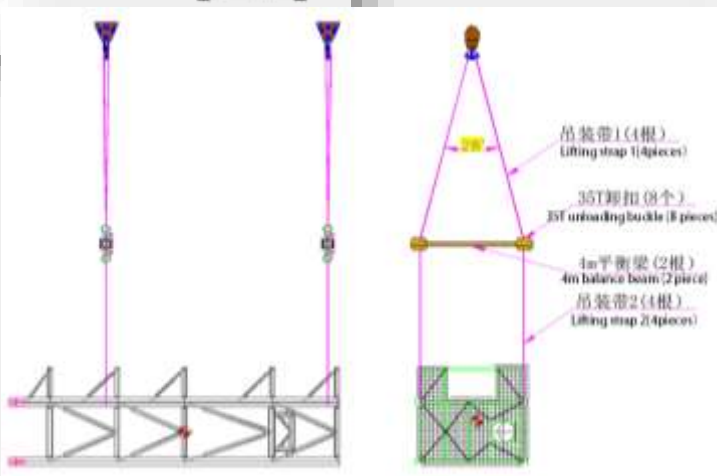
COG 重心计算



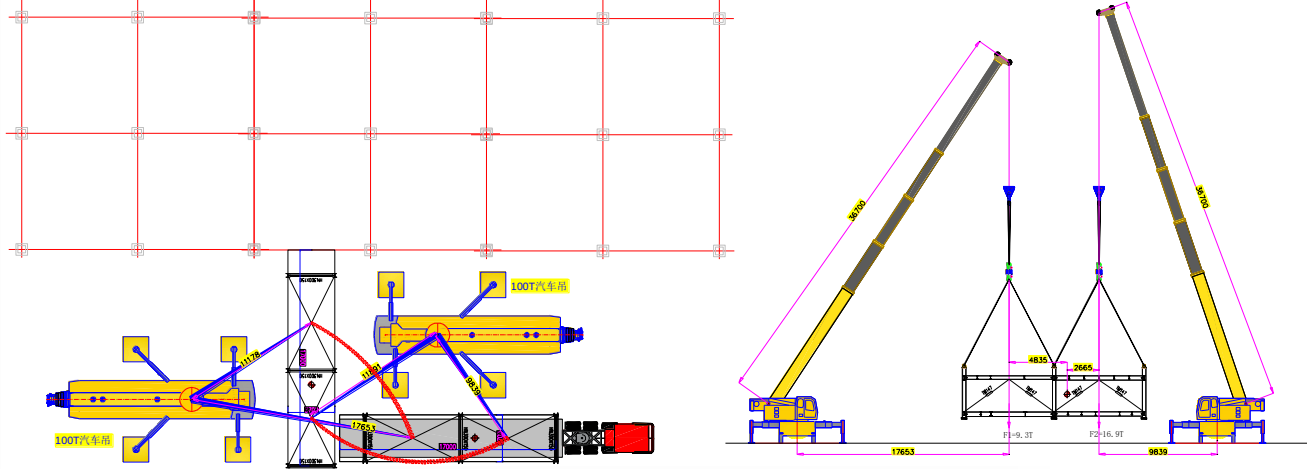
模块吊装设计及计算 Module Lifting Design / Calculation



吊索及配件
Lifting sling & Accessories



吊车站位 Crane Location Design



XCT100主臂性能表 (表中起重重量单位t, 臂长、幅度单位m)

配置40t全伸支腿7.9m

臂长	15.0	16.0	17.0	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0	36.0	37.0	38.0	39.0	40.0		
15.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	
16.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
17.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
18.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
19.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
20.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
21.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
22.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
23.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
24.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
25.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
26.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
27.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
28.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
29.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
30.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

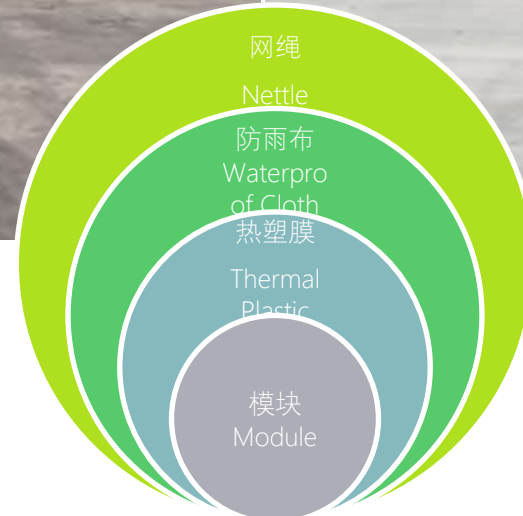
吊车选型 Mobile crane selection

Module Design Delivery





模块包装设计 Module Package Design



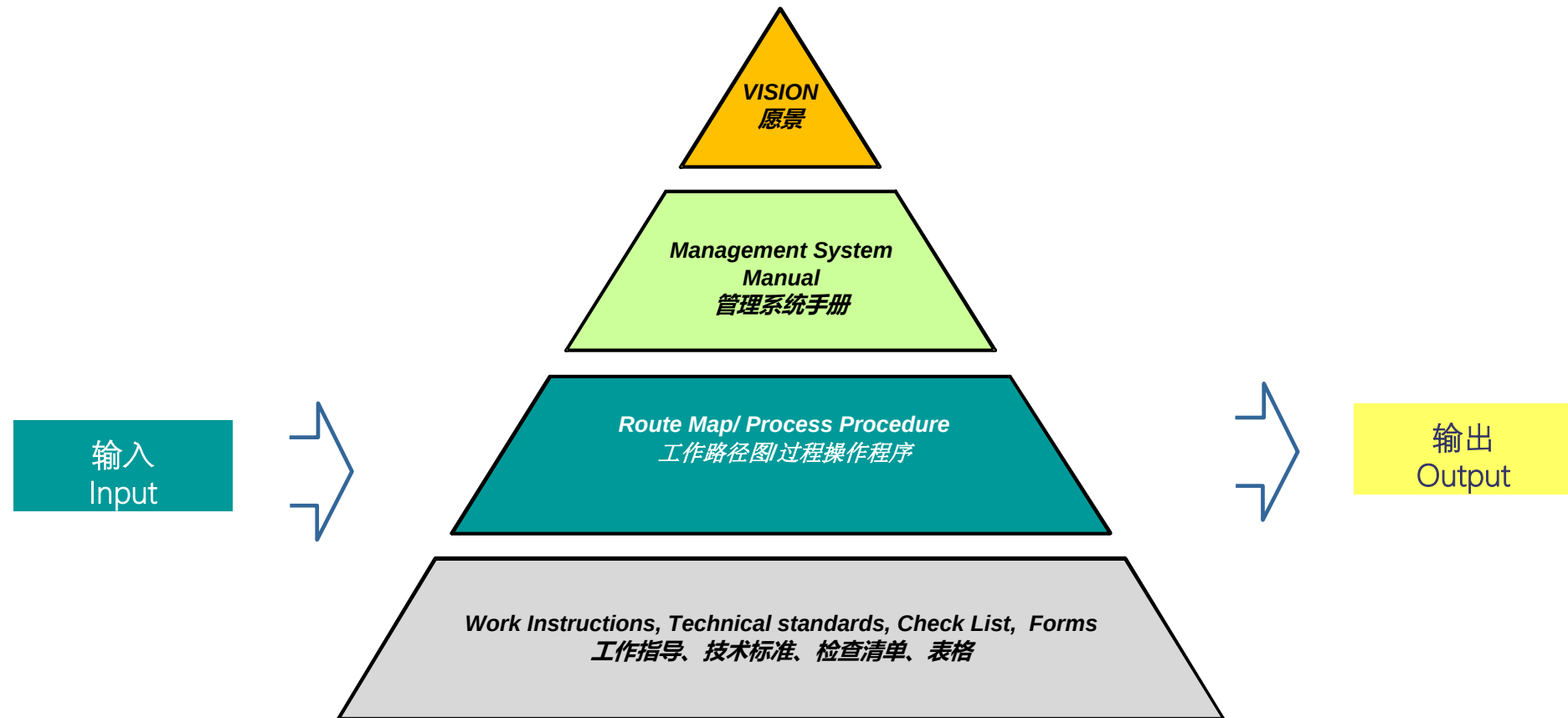


Quality System

质量体系



管理结构 Management Structure





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 G:\A01\系统工作\计划\Quality Assurance\图例\图\QAP-300-PRG-308 A01 Quality Manual.docx

Document No. 文件号	File	Area	Min.	Enc.	No.	Rev.
Doc Hierarchy 文档等级			Level 2			
7.3	Organizational and Technical Interfaces 组织间技术接口					22
7.4	Design Input 设计输入					23
7.5	Design Output 设计输出					24
7.6	Design Review 设计评审					27
7.7	Design Verification 设计验证					27
7.8	Design Validation 设计确认					27
7.9	Design Changes 设计变更					27
8.0	DOCUMENT AND DATA CONTROL					
8.1	General 总则					
8.2	Approval and Issue 批准及发布					
8.3	Document and Data Changes 文、数变更					
8.4	PLM/CAD/PLM 数据					
8.5	General 总则					
8.6	Purchasing Data 采购数据					
16.	CONTROL OF CUSTOMER SATISFACTION					
16.1	PRODUCT IDENTIFICATION AND					
16.1.1	General 总则					
16.1.2	Identification and Traceability 识别和追溯					
16.2	PROCESS CONTROL 过程控制					
16.3	General 总则					
16.4	Planning 计划					
16.5	Special Processes Requiring Pre-Approval 特殊过程					
16.6	Commissioning, Operation and Testing 调试、运行和试验					
16.7	INSPECTION AND TESTING 检验和试验					
16.8	General 总则					
16.9	Receiving Inspection and Tests 进货检验和试验					
16.10	In-Process Inspection and Tests 过程检验和试验					
16.11	Final Inspection and Testing 最终检验和试验					
16.12	Inspection and Testing Records 检验和试验记录					
16.13	Calibration 校准					
16.14	Inspection and Test Status 检验和试验状态					
16.15	CONTROL OF NON CONFORMANCES					
16.16	General 总则					
16.17	Process 过程					
16.18	CORRECTIVE AND PREVENTIVE ACTION 纠正及预防措施					

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体系保证 System Assurance

- 完善的主体质量活动控制计划系统
Master Quality Activity Control Plan
- 工作检查清单系统
LEECC Check List system
- 手册/标准
Technical Standard/Practice

		Master Quality Activity Control Plan		Issue No.	Rev
Advanced Document		Document No.			
A	DECLARATION CONTROL				
1	Non-Declared Control procedures	QMS-001-PRC-001		001-01	001-01-01
2	Control of Supplier QCA's	QMS-002-PRC-002		001-01	001-01-02
3	Control of Customer Control Procedures for Company Procedures	QMS-003-PRC-003		001-01	001-01-03
4	Control of Customer Marketing and Service Control	QMS-004-PRC-004		001-01	001-01-04
5	Control of Customer Control - Inventory List	QMS-005-PRC-005		001-01	001-01-05
6	File, Storage and Control of Documents	QMS-006-PRC-006		001-01	001-01-06
7	Control of New Technical Documentation	QMS-007-PRC-007		001-01	001-01-07
8	Control of New Technical Documentation	QMS-008-PRC-008		001-01	001-01-08
9	Control of New Technical Documentation	QMS-009-PRC-009		001-01	001-01-09
10	Control of New Technical Documentation	QMS-010-PRC-010		001-01	001-01-10
11	PROJECT MANAGEMENT	QMS-101-PRC-011		001-01	001-01-11
12	PROJECT MANAGEMENT MANUAL	QMS-102-PRC-012		001-01	001-01-12
13	Introduction	QMS-103-PRC-013		001-01	001-01-13
14	Corporate Approval of Project Management	QMS-104-PRC-014		001-01	001-01-14
15	Core Business Process	QMS-105-PRC-015		001-01	001-01-15
16	Project Management Process	QMS-106-PRC-016		001-01	001-01-16
17	Project Execution Plan	QMS-107-PRC-017		001-01	001-01-17
18	Pre-Release and Customer	QMS-108-PRC-018		001-01	001-01-18
19	Post-Release and Customer	QMS-109-PRC-019		001-01	001-01-19
20	Project Management Manual	QMS-110-PRC-020		001-01	001-01-20
21	Project Management Manual	QMS-111-PRC-021		001-01	001-01-21
22	Project Management Manual	QMS-112-PRC-022		001-01	001-01-22
23	Project Management Manual	QMS-113-PRC-023		001-01	001-01-23
24	Project Management Manual	QMS-114-PRC-024		001-01	001-01-24
25	Project Management Manual	QMS-115-PRC-025		001-01	001-01-25
26	Project Management Manual	QMS-116-PRC-026		001-01	001-01-26
27	Project Management Manual	QMS-117-PRC-027		001-01	001-01-27
28	Project Management Manual	QMS-118-PRC-028		001-01	001-01-28
29	Project Management Manual	QMS-119-PRC-029		001-01	001-01-29
30	Project Management Manual	QMS-120-PRC-030		001-01	001-01-30
31	CONTRACT MANAGEMENT	QMS-121-PRC-031		001-01	001-01-31
32	Contract Management	QMS-122-PRC-032		001-01	001-01-32
33	Contract Management	QMS-123-PRC-033		001-01	001-01-33
34	Contract Management	QMS-124-PRC-034		001-01	001-01-34
35	Contract Management	QMS-125-PRC-035		001-01	001-01-35
36	Contract Management	QMS-126-PRC-036		001-01	001-01-36
37	Contract Management	QMS-127-PRC-037		001-01	001-01-37
38	Contract Management	QMS-128-PRC-038		001-01	001-01-38
39	Contract Management	QMS-129-PRC-039		001-01	001-01-39
40	Contract Management	QMS-130-PRC-040		001-01	001-01-40
41	CLAIMS	QMS-131-PRC-041		001-01	001-01-41
42	Claims	QMS-132-PRC-042		001-01	001-01-42
43	Claims	QMS-133-PRC-043		001-01	001-01-43
44	Claims	QMS-134-PRC-044		001-01	001-01-44
45	Claims	QMS-135-PRC-045		001-01	001-01-45
46	Claims	QMS-136-PRC-046		001-01	001-01-46
47	Claims	QMS-137-PRC-047		001-01	001-01-47
48	Claims	QMS-138-PRC-048		001-01	001-01-48
49	Claims	QMS-139-PRC-049		001-01	001-01-49
50	Claims	QMS-140-PRC-050		001-01	001-01-50
51	QA/PC	QMS-141-PRC-051		001-01	001-01-51
52	QA/PC	QMS-142-PRC-052		001-01	001-01-52
53	QA/PC	QMS-143-PRC-053		001-01	001-01-53
54	QA/PC	QMS-144-PRC-054		001-01	001-01-54
55	QA/PC	QMS-145-PRC-055		001-01	001-01-55
56	QA/PC	QMS-146-PRC-056		001-01	001-01-56
57	QA/PC	QMS-147-PRC-057		001-01	001-01-57
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61	QA/PC	QMS-151-PRC-061		001-01	001-01-61
62	QA/PC	QMS-152-PRC-062		001-01	001-01-62
63	QA/PC	QMS-153-PRC-063		001-01	001-01-63
64	QA/PC	QMS-154-PRC-064		001-01	001-01-64
65	QA/PC	QMS-155-PRC-065		001-01	001-01-65
66	QA/PC	QMS-156-PRC-066		001-01	001-01-66
67	QA/PC	QMS-157-PRC-067		001-01	001-01-67
68	QA/PC	QMS-158-PRC-068		001-01	001-01-68
69	QA/PC	QMS-159-PRC-069		001-01	001-01-69
70	QA/PC	QMS-160-PRC-070		001-01	001-01-70
71	QA/PC	QMS-161-PRC-071		001-01	001-01-71
72	QA/PC	QMS-162-PRC-072		001-01	001-01-72
73	QA/PC	QMS-163-PRC-073		001-01	001-01-73
74	QA/PC	QMS-164-PRC-074		001-01	001-01-74
75	QA/PC	QMS-165-PRC-075		001-01	001-01-75
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78	QA/PC	QMS-168-PRC-078		001-01	001-01-78
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83	QA/PC	QMS-173-PRC-083		001-01	001-01-83
84	QA/PC	QMS-174-PRC-084		001-01	001-01-84
85	QA/PC	QMS-175-PRC-085		001-01	001-01-85
86	QA/PC	QMS-176-PRC-086		001-01	001-01-86
87	QA/PC	QMS-177-PRC-087		001-01	001-01-87
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90	QA/PC	QMS-180-PRC-090		001-01	001-01-90
91	QA/PC	QMS-181-PRC-091		001-01	001-01-91
92	QA/PC	QMS-182-PRC-092		001-01	001-01-92
93	QA/PC	QMS-183-PRC-093		001-01	001-01-93
94	QA/PC	QMS-184-PRC-094		001-01	001-01-94
95	QA/PC	QMS-185-PRC-095		001-01	001-01-95
96	QA/PC	QMS-186-PRC-096		001-01	001-01-96
97	QA/PC	QMS-187-PRC-097		001-01	001-01-97
98	QA/PC	QMS-188-PRC-098		001-01	001-01-98
99	QA/PC	QMS-189-PRC-099		001-01	001-01-99
100	QA/PC	QMS-190-PRC-100		001-01	001-01-100

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LEECG CHECK LIST SUMMARY		DESCRIPTION	REMARKS
ITEM NO.	SOC NO.	ISSUE COST ESTIMATE	
1	400-CHE-001	Process Estimate	
2	300-LOCAL-001	LOCAL AUTHORITY COORDINATION	
3	300-CHE-001	Legal Project Operation Route Map	
4	300-CHE-002	Legal Project Operation Route Map	
5	300-CHE-003	Legal LA Coordination Table	
6	400-ENGINEERING	400 ENGINEERING	
7	400-ENGINEERING-GENERAL	400 Engineering General	
8	400-CHE-001	Project Risk Check-General	
9	400-CHE-002	Design for construction Phases	
10	400-CHE-003	Design Management Interface	
11	400-CHE-004	Checklist and Approval Notifications	
12	400-CHE-005	Legal Document Checking and Approval Schedules	
13	400-CHE-006	Legal OGC Check	
14	400-CHE-007	Guidelines for the Submission of Document for Company Review	
15	400-CHE-008	Constructability Checklist	
16	400-PROCESS	400 PROCESS	
17	400-PROCESS-DESIGN	Process Design	
18	400-CHE-001	Process Design of Gas Plant	
19	400-CHE-002	Process Design of Natural Gas Compressor Station	
20	400-CHE-003	Process Design of Effluent Plant	
21	400-CHE-004	Process Design and Engineering of Urethane Polyethylene (PE)	
22	400-CHE-005	Process Design and Engineering of DPM Plant	
23	400-CHE-006	Process Design and Engineering of ENEC Plant (BIC Process)	
24	400-CHE-007	Process Design and Engineering of VCM Plant	
25	400-PROCESS-ENGINEERING	Process Engineering	
26	400-CHE-001	Basic Engineering Design Data	
27	400-CHE-002	ITB Package	
28	400-CHE-003	Comments and Remarks in Technical Proposal Book	
29	400-CHE-004	PIV & HSD Preparation	
30	400-CHE-005	Safety Review	
31	400-CHE-006	Acc Consequence	
32	400-CHE-007	Acc System Design	
33	400-CHE-008	Acc Process Requirement	

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名称	LEEC Design Manual 设计手册	LEEC Design Manual 设计手册	LEEC Design Manual 设计手册
01 DMA-设计手册	01 DMA-设计手册	01 DMA-设计手册	01 DMA-设计手册
02 通用估算-设计手册	02 通用估算-设计手册	02 通用估算-设计手册	02 通用估算-设计手册
03 项目控制-设计手册	03 项目控制-设计手册	03 项目控制-设计手册	03 项目控制-设计手册
04 工艺系统-设计手册	04 工艺系统-设计手册	04 工艺系统-设计手册	04 工艺系统-设计手册
05 管道工程-设计手册	05 管道工程-设计手册	05 管道工程-设计手册	05 管道工程-设计手册
06 化工机械-设计手册	06 化工机械-设计手册	06 化工机械-设计手册	06 化工机械-设计手册
07 环境工程-设计手册	07 环境工程-设计手册	07 环境工程-设计手册	07 环境工程-设计手册
08 土壤工程-设计手册	08 土壤工程-设计手册	08 土壤工程-设计手册	08 土壤工程-设计手册
09 电气工程-设计手册	09 电气工程-设计手册	09 电气工程-设计手册	09 电气工程-设计手册
10 仪表工程-设计手册	10 仪表工程-设计手册	10 仪表工程-设计手册	10 仪表工程-设计手册
标准规范-修改建议-最新	标准规范-修改建议-最新	标准规范-修改建议-最新	标准规范-修改建议-最新
LEEC Design Manual.pdf	LEEC Design Manual.pdf	LEEC Design Manual.pdf	LEEC Design Manual.pdf
LEEC Design Manual.xls	LEEC Design Manual.xls	LEEC Design Manual.xls	LEEC Design Manual.xls



公司计算机网络及通信系统 Computer Network & Communication System

■ 计算机网络与通信系统 Computer network & communication system

拥有严格的安全政策程序和信息安全接入安全措施。可支持电子邮件、视频会议、协同设计、项目管理、数据库、信息交换与信息资源共享、防火墙。实现企业网络化办公并确保信息安全。

With strict security policy procedure & information access security approaches, it supports email, video conferencing, collaborative design, project management, database, information exchange & information resource sharing, and firewall. Realize enterprise network office and ensure information security.

■ 公司/项目档案管理程序

Company/Project file management procedures;

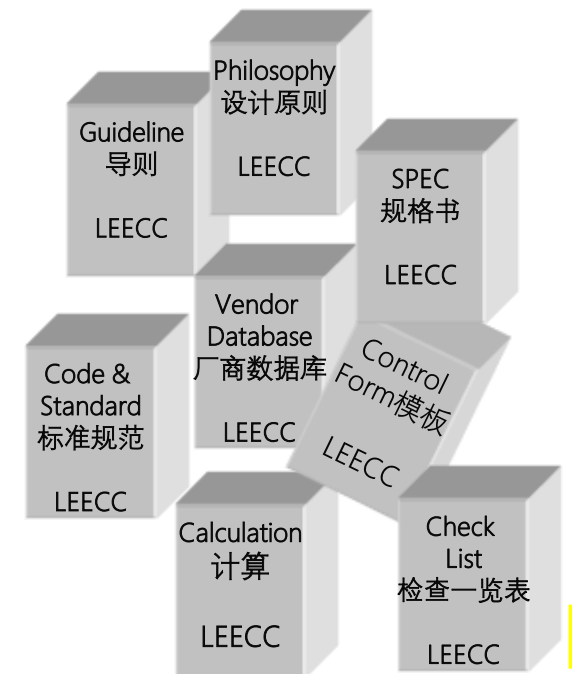
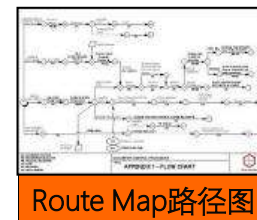
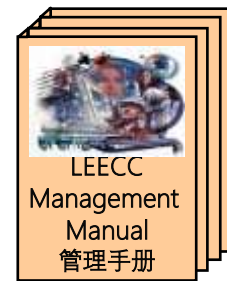
■ 公司/项目知识产权保护(IPP)管理程序

Company/Project intellectual property protection (IPP) management procedures

■ 信息资源库, 包括

Information data base, including

- 企业业务相关的标准规范及法规资源;
Code & Standards, regulatory Info;
- 企业管理程序资源
Enterprise management procedure/Practice
- 供应商信息资源等
Supplier information data base etc.



3

业务范围

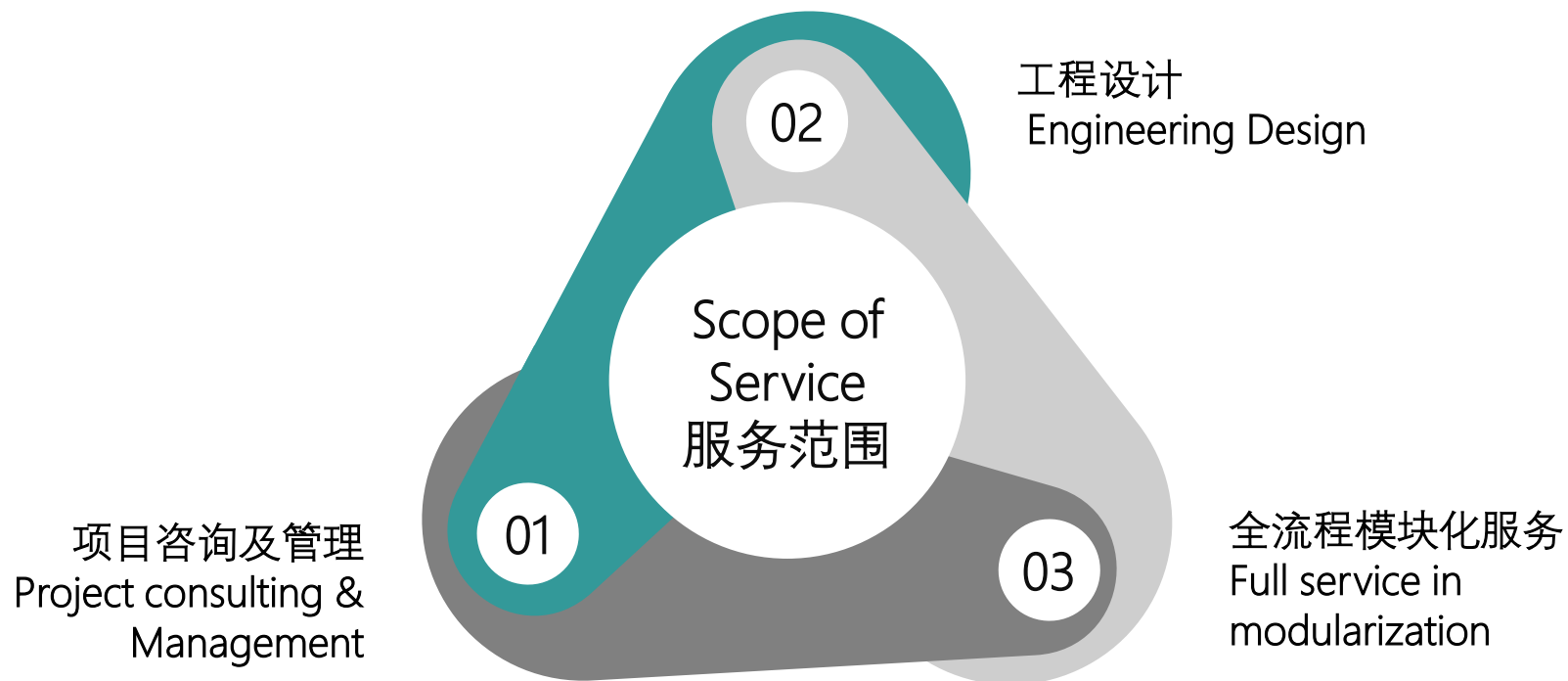
What We Do

- 模块化全流程服务
Full service in modularization
- 工程设计
Engineering Design
- 项目咨询及管理
Project Consulting & Management Service



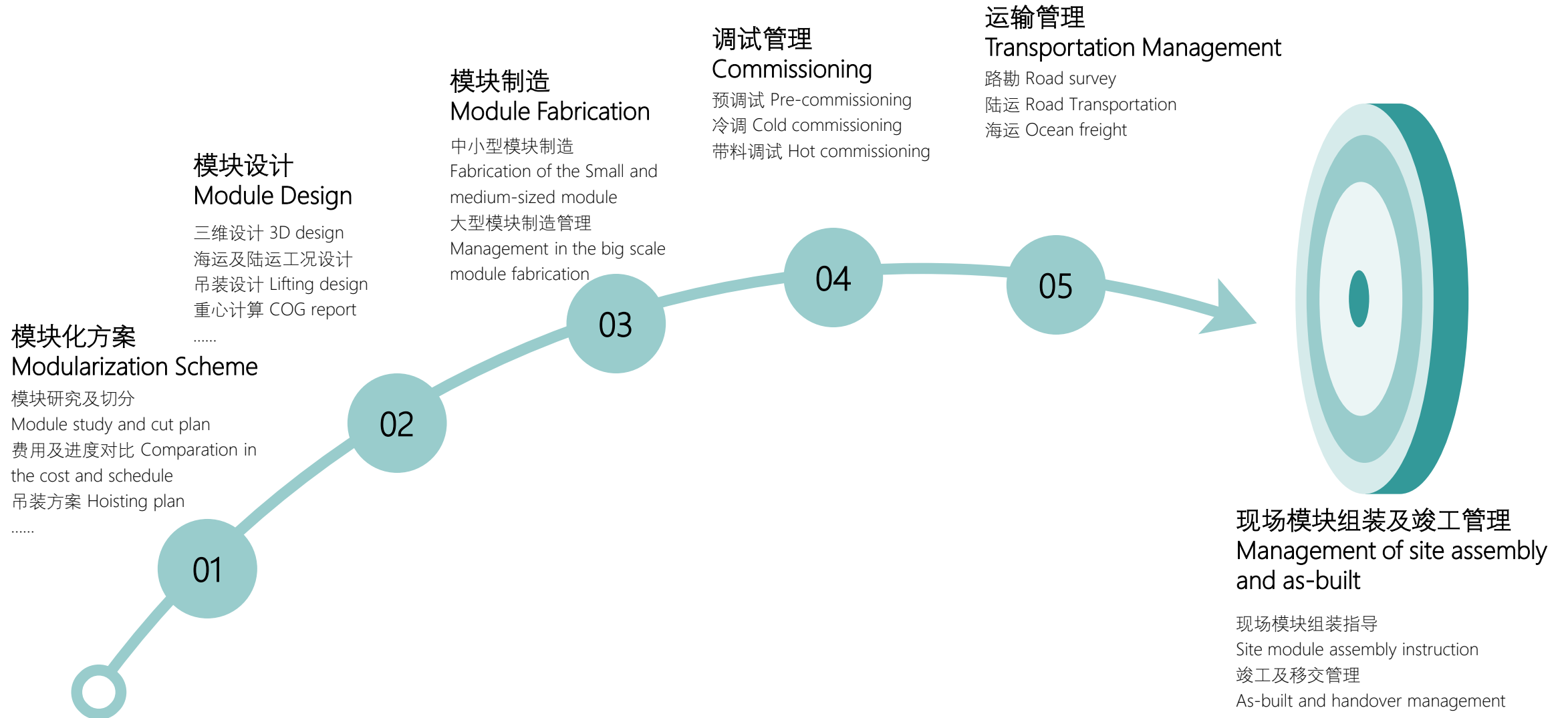
服务范围

Scope of Service



模块化全流程服务

Services in the whole process of modularization





工艺包开发
Process Package
Development

安全及可操作性分析
HAZOP Study
安全诊断
Safety Audit

设施合规性评估
Facility LA Compliance
Assessment
改造评估
Modification Assessment

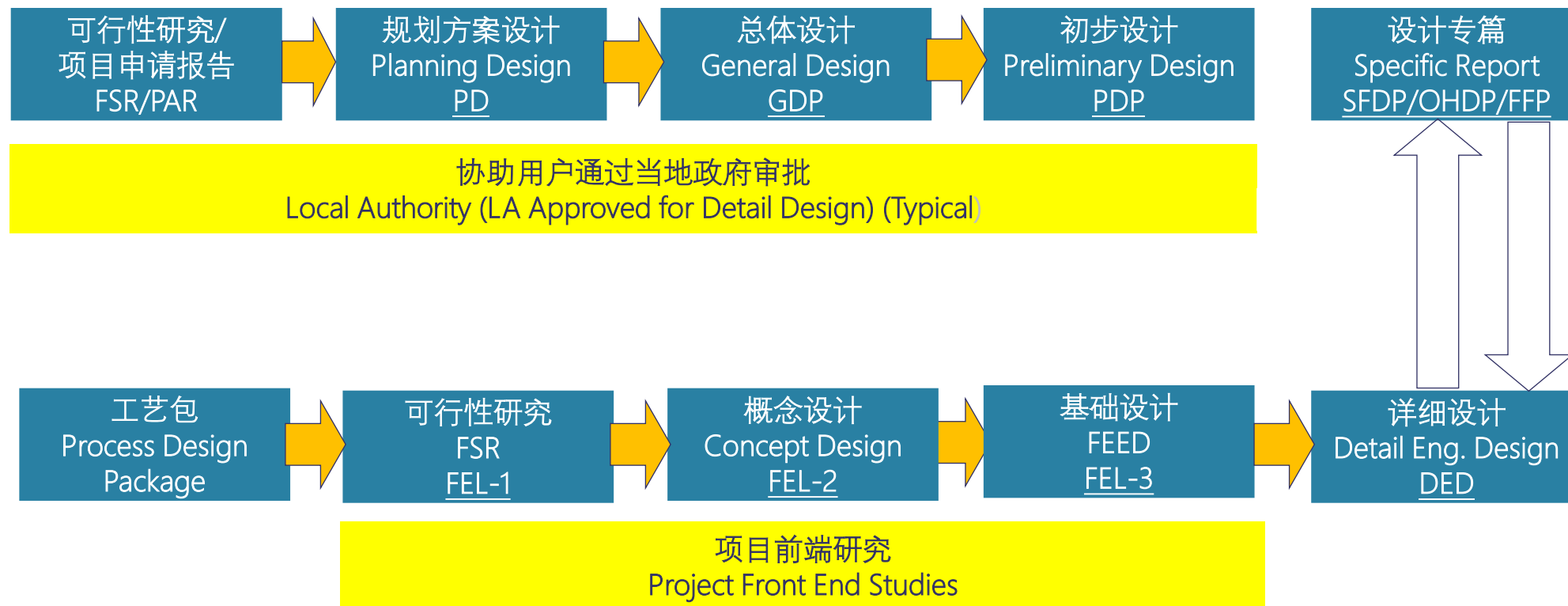


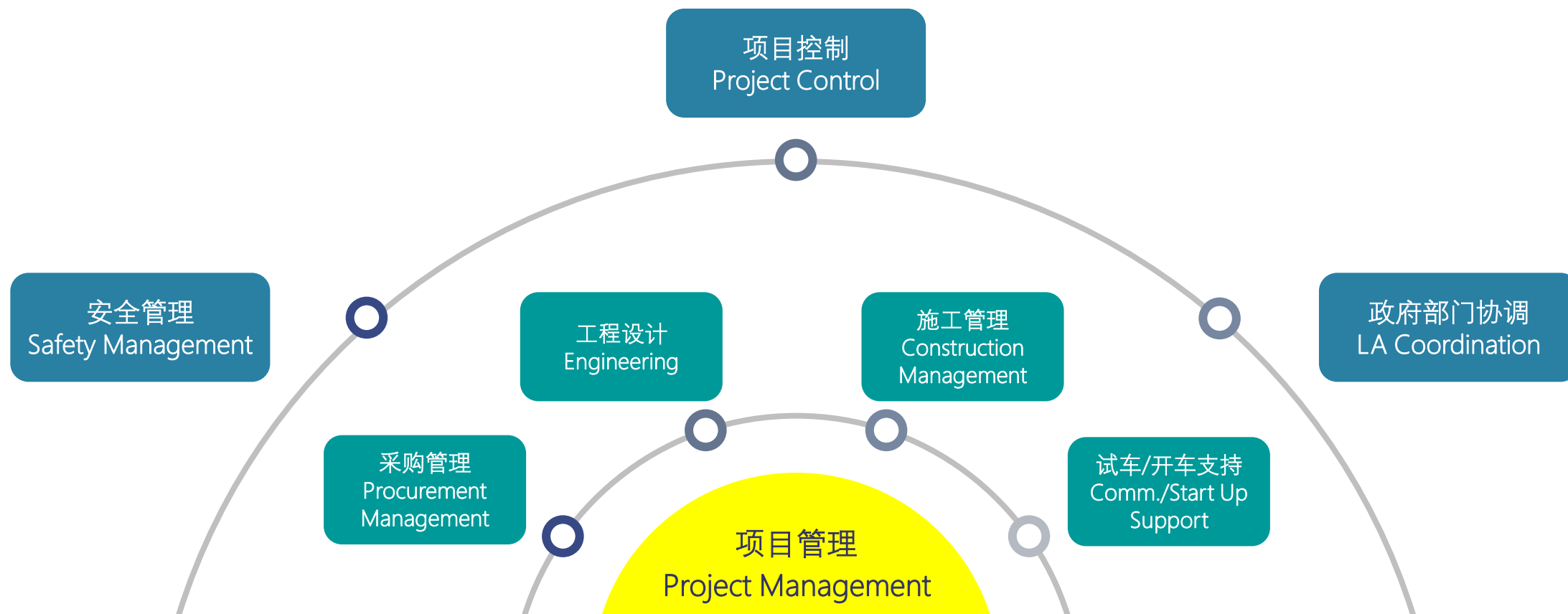
项目计划
Project Planning
场址选择
Site Selection

费用估算
Cost Estimate
价值工程
Value Engineering

项目申请报告
PAR
可行性研究
Feasibility Study









选择LEECC理由

Why Select LEECC



价值观
Vision

专注以实现客户价值
Realize Customer Value with Focus

执行模式
Operation Mode

国际项目模式+中国资源
International Project Model + China Resources

模块化能力
Modularization capacity

全流程模块化服务能力
Services in the whole process of modularization

安全交付
Safety

安全交付
Safe Delivery



4

典型项目运作

Typical Project Execution

- 项目启动
Project Initiation
- 项目管理
Project Management
- 模块方案
Modularization Scheme
- 开工会
Kick Off Meeting
- 工程设计
Engineering Design
- 采购管理
Procurement Management
- 施工管理
Construction Management
- 进度计划及控制
Planning & Schedule Control
- 风险评估/关键事项管理
Risk Evaluation & Critical Issue Management
- 费用控制
Cost Control
- 质量控制
Quality Control
- 政府部门协调
Local Authority Coordination



常规建设项目 Stick Built Project





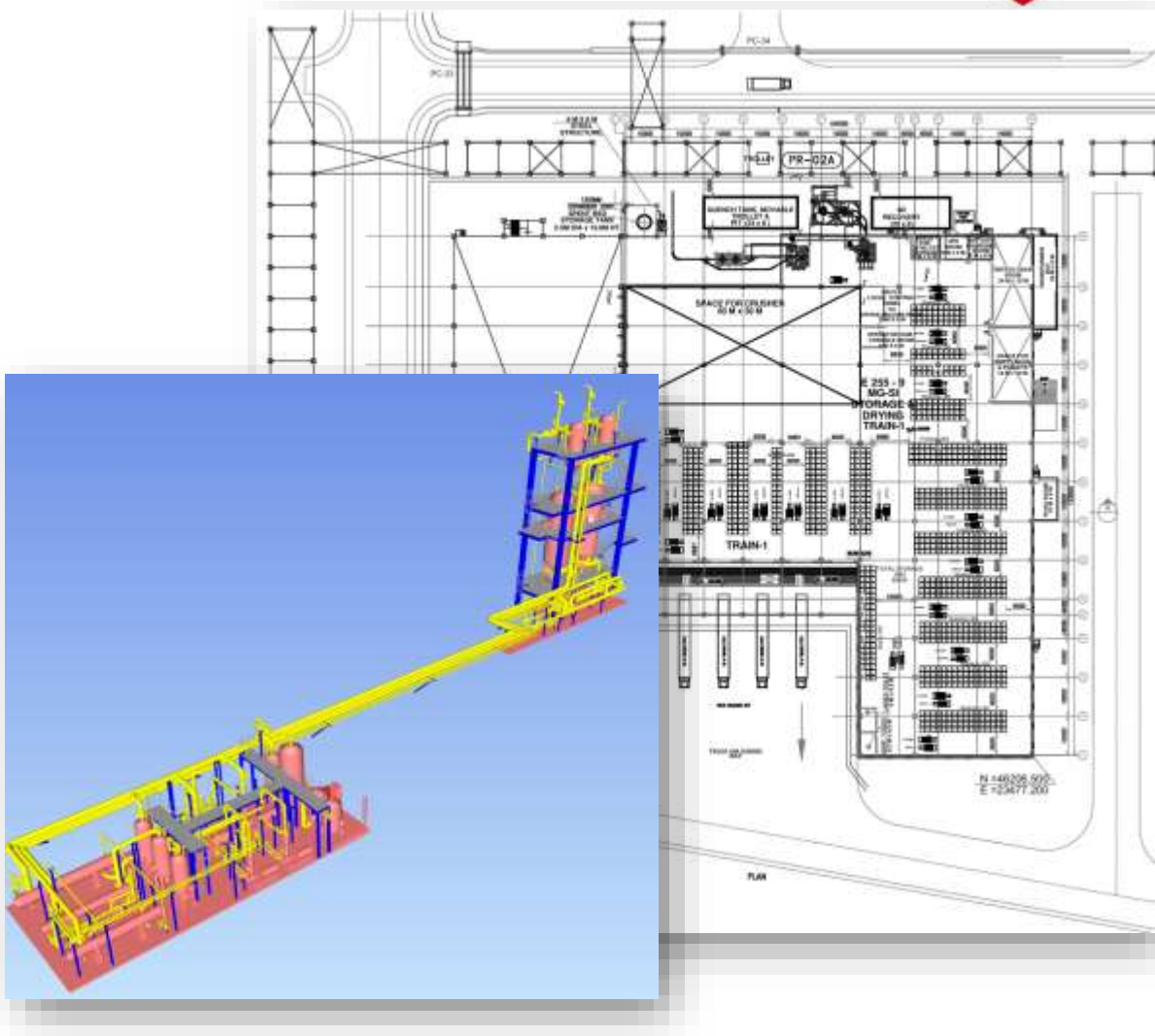
LEECC 典型项目

LEECC Project Reference



India Reliance Group

业主名称	印度信实工业集团
项目地点	印度古吉拉特邦，贾姆讷格尔
项目	综合光伏制造设施多晶硅干燥项目
工作范围	详细设计及采购管理
执行时间	2024 – 2025
Client	Reliance
Location	JAMNAGAR, GUJARAT, INDIA
Project	Integrated PV Manufacturing Facility Polysilicon drying Project
Scope of Work	Detail Design and Procurement Management
Execution Time	2024-2025





四川中科振兴新材料有限公司

业主名称	四川中科振兴新材料有限公司
项目地点	四川 南充
项目	年产5000吨特种聚碳酸酯项目
工作范围	详细设计
执行时间	2024-2025
Client	Sichuan Zhongke Zhenxing New Material Co., Ltd..
Location	Nanchong, Sichuan
Project	5000T/Y special polycarbonate project
Scope of Work	Detail Design
Execution Time	2024-2025





LEECC 典型项目

LEECC Project Reference



江苏昊显 电子光学胶膜电子专用胶黏剂项目

业主名称 江苏昊显材料科技有限公司

项目地点 江苏盐城

项目名称 年产电子光学胶膜2000平方米、15772吨电子专用胶黏剂项目

项目描述 建筑面积：26541m², 占地20022m², 年产600万平方米OCA光学胶膜、1400万平方米半导体及电子胶带、4716吨UV光学胶、4880吨偏光片胶水、1997吨水性丝印胶、1998吨水性浸渍胶、2181吨电子胶黏剂

工作范围 工艺包设计, EPCM

执行时间 2024-2025

Client Jiangsu Haoxian Material Technology Co. Ltd.

Project Location Jiangsu Yancheng

Projects Electron optical adhesive Material Project, Green Field

Scope of Work Process Package Design, EPCM

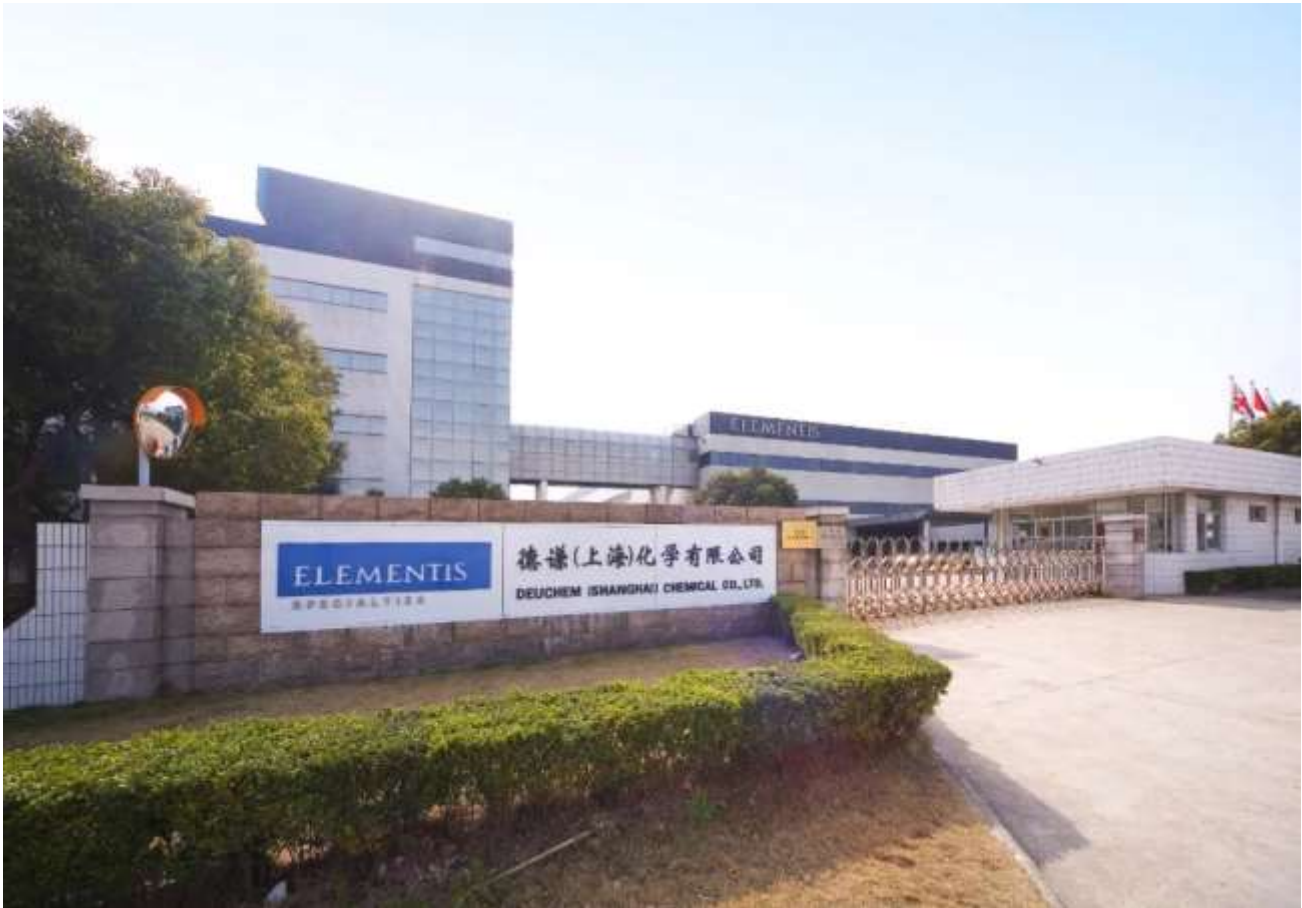
Execution Time 2024-2025





ELEMENTIS PANDA PROJECT

业主名称	德谦（上海）化学有限公司
项目地点	上海松江
项目	PANDA PROJECT
项目描述	总投资：5000万 扩建项目
工作范围	工艺包设计，基础设计, 详细设计
执行时间	2024.6~2024.12
Client	Deuchem (Shanghai) Chemical Co., Ltd.
Project Location	Song Jiang, Shanghai
Projects	New Material Project, Expansion Project
Scope of Work	Process package design, Basic Design, Detail Design
Execution Time	2024.6~2024.12





LEECC 典型项目

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陶氏化学项目Dow Chemical Projects(Chemical)

业主名称	陶氏化学（张家港）有限公司
项目地点	江苏省张家港市
项目	化工新项目，扩建和改造
总投资	长期合作
工作范围	基础设计,成本估算，详细设计，工程咨询, 工程服务
执行时间	2005-现在

Client	Dow Chemical (Zhangjiagang) Co. Ltd.
Project Location	Zhangjiagang, Jiangsu
Projects	Chemical Projects for Green Field, Revamping & modifications
Capes Cost	Long Term Cooperation
Scope of Work	Basic Design, Cost Estimate, Detail Design, Engineering Consulting, Engineering Service
Execution Time	2005-Present





LEECC 典型项目

LEECC Project Reference



帝斯曼项目DSM Projects(Chemical, Pharmaceutical, Life Science, material Science)

业主名称	帝斯曼中国有限公司
项目地点	广东省佛山，江苏靖江、江阴、常州，湖北荆州等
项目	树脂，制药，生命科学和材料科学(洁净厂房), 新建，扩建，改造
总投资	长期合作
工作范围	EPCM合同，前端工程研究，成本估算与价值工程，详细设计，工程咨询，工程服务等
执行时间	2009-现在
Client	DSM China Co. Ltd.
Location	Foshan Guangdong, Jingjiang/Jiangyin/Chang Zhou, Jiangsu, Jingzhou Hubei etc.
Project	Resin, Pharmaceutical, Life Science and Material Science Projects (Clean Room). Green Field, Revamping, Modification
Capex	Long Term Cooperation
Scope of Work	EPCM Contracts, Front End Engineering, Cost Estimate & Value Engineering, Detail Design, Other Eng. Consulting, Engineering Service Etc.
Execution Time	2009-Present





阿克苏诺贝尔项目 Akzo Nobel Projects (Chemical)

业主名称	阿克苏诺贝尔
项目地点	浙江省宁波, 上海, 常州, 重庆等
项目	树脂, 粉末涂料, 过氧化氢, 化学添加剂产品新建, 扩建, 改造
总投资	长期合作
工作范围	EPCM合同, 施工管理, 基础设计, 成本估算, 详细设计, 工程咨询, 工程服务
执行时间	2011~现在
Client	Akzo Nobel
Location	Ningbo, Shanghai, Changzhou, Chongqing etc.
Products	Resin, Powder painting, Peroxide, Chemical additive Projects. Green Field, Revamping, Modification
Capex Cost	Long Term Cooperation
Scope of Work	EPCM Contract, Construction Management, Basic Design, Cost Estimate, Detail Design, Engineering Consulting, Engineering Service
Execution Time	2011~Present





德邦材料 - 高端电子材料生产基础建设项目

业主名称	德邦（昆山）材料有限公司
项目地点	江苏昆山
项目	电子材料项目，新建
项目描述	建设用地面积约45238.6平方米（含洁净厂房），主要生产封装材料、集成电路晶圆UV膜、光伏叠晶材料等。
工作范围	基础设计, 详细设计
执行时间	2021-2022

Client	Debang (Kunshan) Material Co. Ltd.
Project Location	Kunshan, Jiangsu
Projects	Electronic Chemical Project, Green Field
Scope of Work	Basic Design, Detail Design
Execution Time	2021-2022





LEECC 典型项目

LEECC Project Reference



合众硅基 - 年产85000吨有机硅新材料项目

业主名称	云南众合硅基新材料有限公司
项目地点	云南曲靖
项目	新材料项目, 新建
项目描述	用地面积约55750.56平方米, 主要生产特种生胶 (高乙烯基、高分子量生胶、苯基生胶)、小分子硅油 (羟基硅油、聚氨酯改性硅油等)、特种混炼胶 (阻燃胶、陶瓷胶等)、液体胶, 改性硅油 (含氢硅油、乙烯基硅油、氨基硅油、苯基硅油、苯基硅油等)
工作范围	基础设计, 详细设计
执行时间	2020-2022

Client	Yunnan Hezong New Material Co. Ltd.
Project Location	Qujing, Yunnan
Projects	New Material Project, Green Field
Scope of Work	Basic Design, Detail Design
Execution Time	2020-2022



合众硅基 - 年产85000吨有机硅新材料项目
Hezong-Silicone





LEECC 典型项目

LEECC Project Reference



益曼特(荆州) Yimante Upgrade (Pharmaceutical)

业主名称	益曼特健康产品(荆州)有限公司
项目地点	湖北荆州
项目	益曼特升级改造项目（制药VE，含洁净厂房）
总投资	390,000,000RMB
工作范围	工厂合规性及改造评估，详细设计
执行时间	2019-2020
Client	Yimante Health Products (Jingzhou) Co., Ltd.
Location	Jingzhou Hubei
Project	Yimante Upgrade Project. Pharmaceutical, VE Factory(with clean room), Upgrading Modification
Capex	390,000,000RMB
Scope of Work	Local Authority Compliance Assessment, Detail Design.
Execution Time	2019-2020





意口艺脍食品(嘉兴)ISU Food

业主名称	嘉兴意口艺脍食品有限公司
项目地点	浙江嘉兴
项目	嘉兴ISU新工厂, 香肠, 火腿(食品, 洁净厂房, 冷库) , 22000m²
工作范围	初步设计, 详细设计
执行时间	2019-2020

Client	Independent Salumi Union Co., Ltd.
Location	Jiaxing, Zhejiang
Project	Jiaxing ISU New Plant, Sausage, Ham(Clean Room, Food, Cold Storage), 22000m²
Scope of Work	Preliminary Design, Detail Design.
Execution Time	2019-2020





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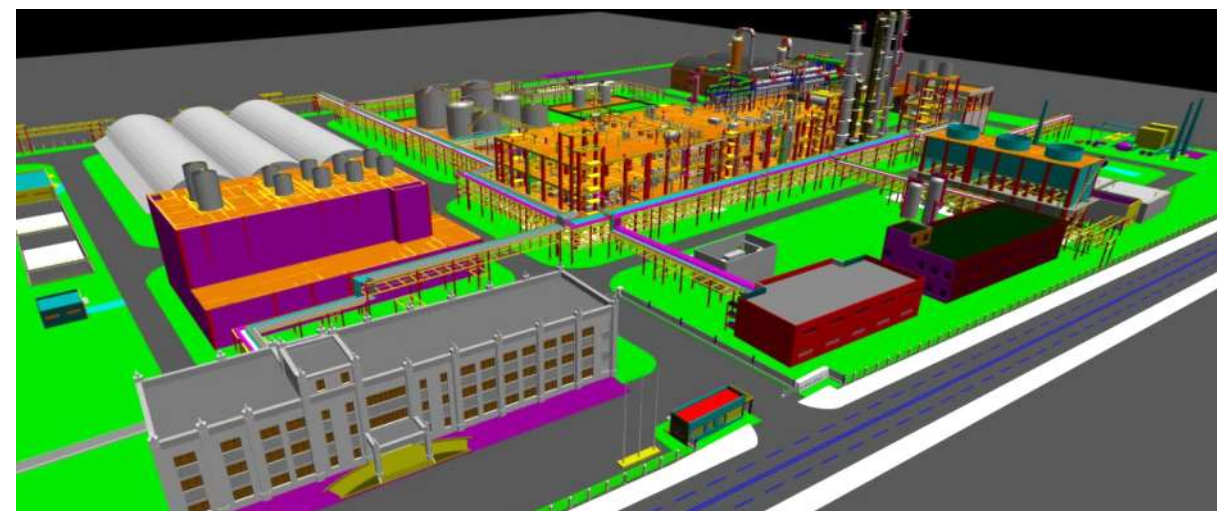
LEECC Project Reference



甘宁石化新材料股份有限公司Ganning Group(Petro-Chem./Chemical)

业主名称	湖北甘宁石化新材料有限公司
项目地点	湖北省枝江市
项目	非光气法聚碳酸酯树脂, 70,000吨/年
总投资	1,000,000,000RMB
工作范围	基础设计, 详细设计
执行时间	2017-2018

Client	Hubei Ganning New Material Co., Ltd.
Location	Zhijiang, Hubei
Projects	Non phosgene method Polycarbonate Resin, 70,000 t/a
Capex	1,000,000,000RMB
Scope of Work	Basic Design, Detail Design
Execution Time	2017-2018





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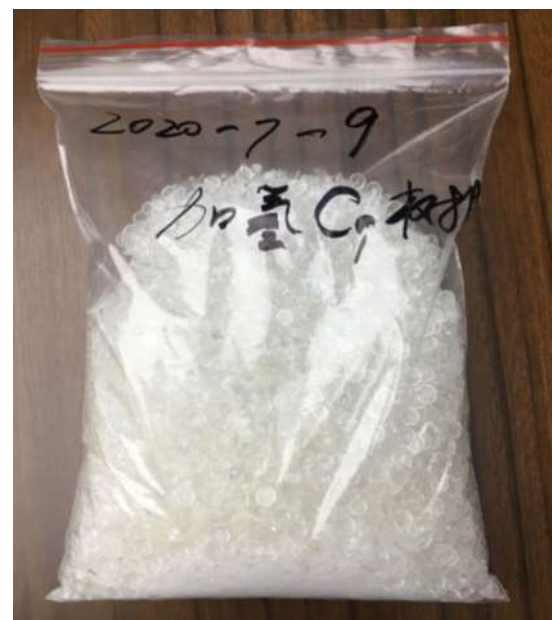
LEECC Project Reference



泰兴天马C5/C9Taixing Tianma C5/C9(Chemical/Material Science)

业主名称 泰兴天马化工有限公司
项目地点 泰州
项目 C5/C9 加氢树脂, 40,000 吨/年
总投资 350,000,000RMB
工作范围 工艺包, 初步设计, 基础设计, EPCM
执行时间 2017-2018

Client Taixing Tianma Chemical Co., Ltd.
Location Taizhou
Project C5/C9 Hydrogenation Resin,
40,000 t/a
Capex Cost 350,000,000RMB
Scope of Work Process Package, Preliminary Design,
Basic Design, EPCM Service
Execution Time 2017-2018





LEECC 典型项目

LEECC Project Reference



帝斯曼江山制药DSM Projects (Pharmaceutical)

业主名称	帝斯曼制药（江山）有限公司
项目地点	江苏靖江
项目	蓝天改造项目，制药VC产品工厂
总投资	900,000,000RMB
工作范围	系统改造评估，基础设计，成本估算， 详细设计，现场服务，EPCM
执行时间	2017-2018
Client	DSM Pharmaceutical (Jiangshan) Co., Ltd,
Location	Jingjiang, Jiangsu
Project	Blue Sky Modification Project , Pharmaceutical VC Factory
Capex	900,000,000RMB
Scope of Work	System Modification Assessment, Basic Design, Cost Estimation, Detailed Design, Site Service, EPCM
Execution Time	2017-2018





LEECC 典型项目

LEECC Project Reference



荷美尔(嘉兴)Hormel Food

业主名称 嘉兴荷美尔食品有限公司
项目地点 浙江嘉兴
项目 香肠, 火腿, 熟肉制品 (食品, 洁净厂房, 冷库)
工作范围 基础设计, 详细设计
执行时间 2015

Client Jiaxing Hermel Food Co. Ltd.
Location Jiaxing, Zhejing
Project Sausage, ham, cooked meat products (food, clean room, cold storage)
Scope of Work Basic Design, Detail Design.
Execution Time 2015





LEECC 典型项目

LEECC Project Reference



雀巢/银鹭厦门基地Nestle/Yinlu Food Xiamen New Base(Food)

业主名称 厦门银鹭食品集团有限公司
项目地点 福建厦门
项目 600,000吨/年 饮料, 104,000 m²
工作范围 概念设计, 基础设计, +/-10%成本估算, 详细设计
执行时间 2013-2014

Client Xiamen Yinlu Food Group Co. Ltd.
Location Xiamen, Fujian
Project 600,000t/a Beverage, 104,000 m²
Scope of Work Concept Design, Basic Design, +/-10%
Cost Estimate & Detail Design
Execution Time 2013-2014





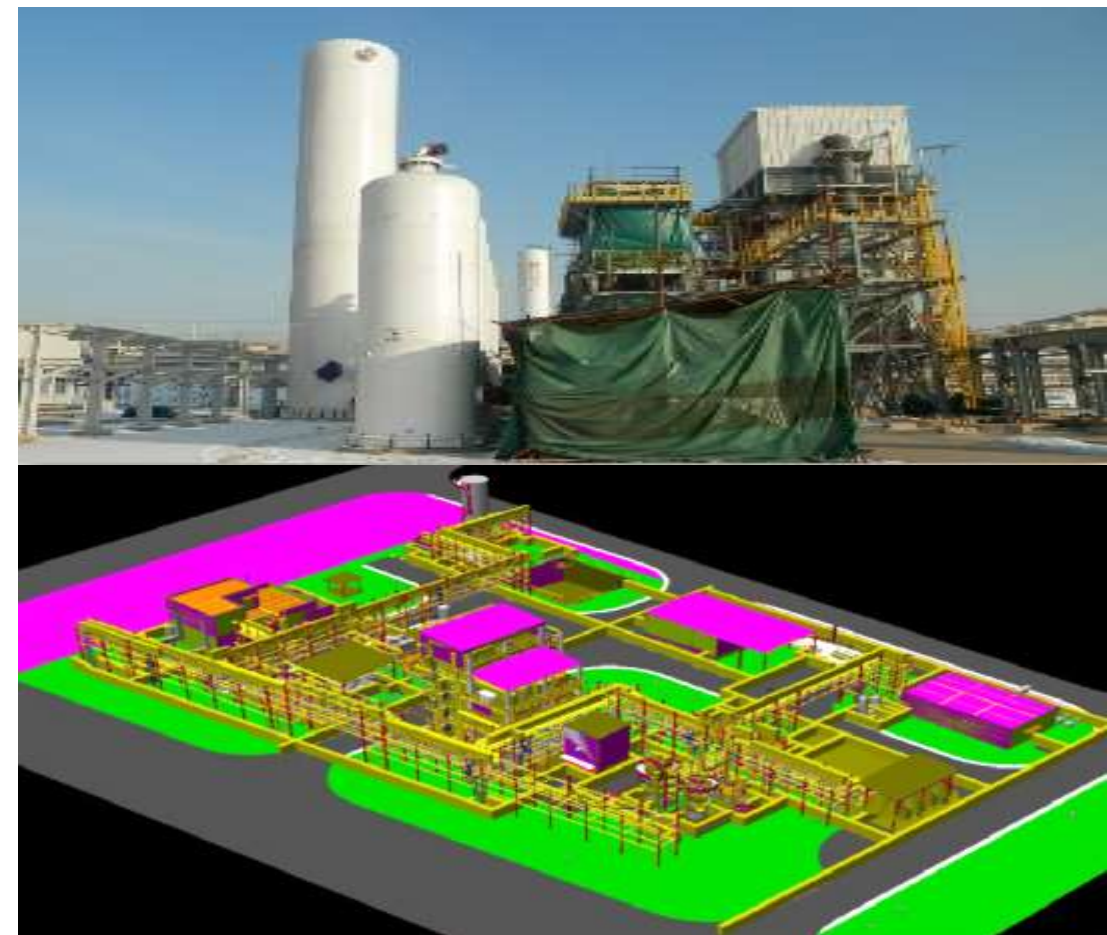
LEECC 典型项目

LEECC Project Reference



法液空辽阳氢气工厂 Air Liquide Liaoyang(Chemical)

业主名称	法液空
项目地点	辽阳
项目	天然气制H ₂ 工厂, 13,500Nm ³ /h
工作范围	详细工程设计, 模块设计
执行时间	2012年-2013年
Client	Air Liquide
Project	Liaoyang
Projects	Liaoyang H ₂ Plant, 13,500Nm ³ /h
Scope of Work	Detail Engineering Design, Modular Design
Execution Time	Year 2012-2013





太古冷链物流(廊坊) Swire Cold Chain Logistics Langfang

业主名称 太古冷链物流(廊坊)有限公司
项目地点 河北廊坊
项目 冷链物流, 建筑面积29,817m², 冷库24,125m²
工作范围 EPCM
执行时间 2012-2013

Client Swire Cold Chain Logistics (Langfang) Co. Ltd.
Location Langfang, Hebei
Project Cold Chain Logistics, Building area 29,817m², Cold warehouse 24,125m²
Scope of Work EPCM
Execution Time 2012-2013





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凡特鲁斯(南通) Vertellus Nantong(Pharmaceutical)

业主名称	凡特鲁斯南通有限公司
项目地点	江苏南通
项目	10,000 吨 / 年烟酸酰胺项目 (制药)
工作范围	详细设计
执行时间	2010-2011

Client	Vertellus(Nantong) Co., Ltd.
Location	Nantong, Jiangsu
Project	10,000t/a Niacin Amide
Scope of Work	Detail Design.
Execution Time	2010-2011





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诺维信布莱尔工厂 Novozymes Blair Factory (Pharmaceutical, Modular)

业主名称	诺维信布莱尔
项目地点	美国
项目	发酵罐160m ³ , 酶制剂 (制药)
工作范围	详细设计, 模块化设计
执行时间	2010
Client	Novozymes Blair
Location	USA
Project	Fermentation tank is 160 m ³ , Enzyme preparation
Scope of Work	Detail Design. Modular design
Execution Time	2010





道康宁张家港有机硅 Dow Corning Zhang Jiagang Siloxane (Chemical)

业主名称	道康宁(张家港)有机硅有限公司
项目地点	江苏省张家港市
项目	道康宁亚洲第三支柱产业2期项目190,000吨/年硅氧烷
总投资	1,500,000,000US\$
工作范围	初步设计, 详细设计
总投资	1,500,000,000US\$
执行时间	2007-2009

Client	Dow Corning
Location	Zhang Jiagang
Project	Dow Corning Asian 3rd Pillar project phase 2, 190,000t/a Siloxane
Scope of Work	PDP, Detail Design
Capex Cost	1,500,000,000US\$
Execution Time	2007-2009





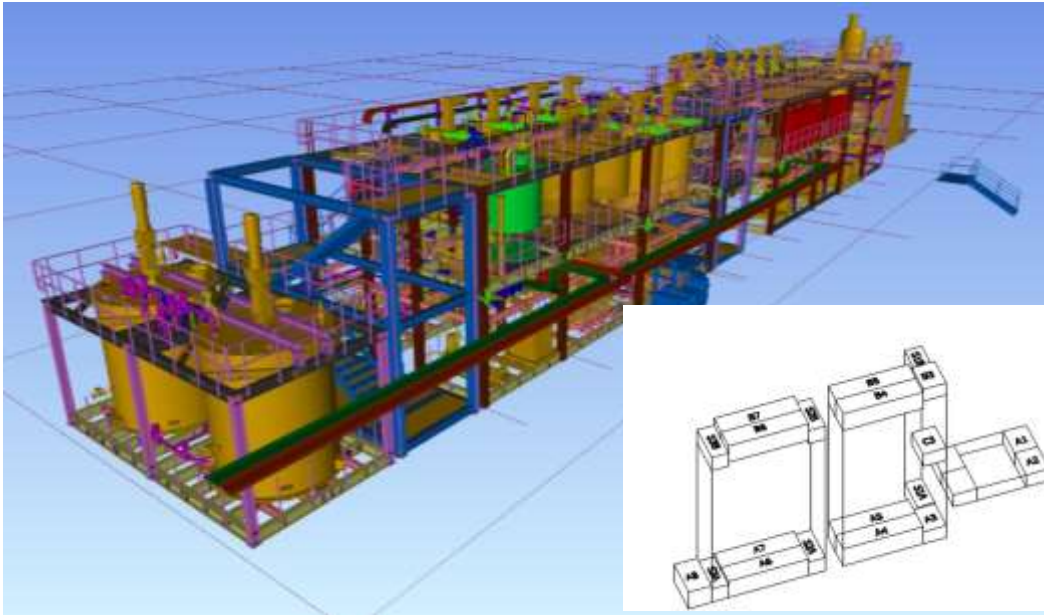
模块项目 Modularization Project





CNT导电浆料全产线模块化项目

业主名称	纳米材料公司
项目地点	美国
模块名称	导电浆料全产线模块
模块规模	17个模块， 最大模块3.5W x 17.5H x 4.5H, 34吨
合同模式	EPFCM, 工艺包, 设计、采购、制造、包装、管理、安装指导、调试
执行状态	2023.11-2025.3, 设计完成， 采购\制造进行中
Client	Nanomaterials Company
Location	US
Module Unit	Modularization for the conductive paste production line
Module Size	17sets, Max: 3.5m x 17.5m x 4.5m, 34 ton
Contract	EPFCM, Process Package Design, Procurement, Fabrication, Management, Construction
Status	2023.11~2025.3 Design done, procurement and fabrication ongoing





亿纬马来西亚电芯制造基地 NMP回收装置

业主名称	亿纬马来西亚
项目地点	马来西亚， 槟城
模块名称	NMP溶剂回收装置
模块规模	11个模块， 最大模块18m x 3.8m x 4.8m, 22吨
合同模式	E+C+M 模块设计、制造、包装及项目管理
执行状态	2024.6-2025.4， 设计完成， 采购、制造进行中
Client	EVE Malaysia
Location	Penang, Malaysia
Module Unit	NMP Recovery Unit
Module Size	11sets， Max: 18m x 3.8m x 4.8m, 22 ton
Contract	E+C+M, Design, Fabrication, Package, Management
Status	2024.8~2025.4, Design done, procurement/fabrication ongoing





上海市政府青浦区生物资源化利用中心项目

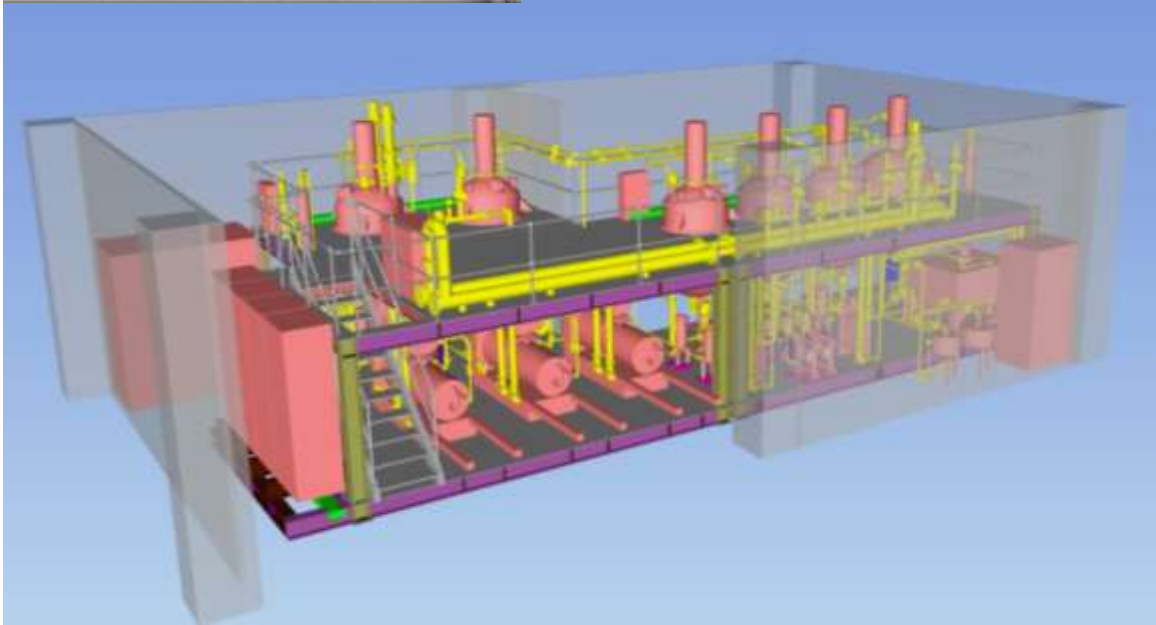
业主名称	上海市政工程设计研究总院(集团)有限公司
项目地点	上海，青浦
模块名称	青浦区生物资源化利用中心项目, 脱氨模块
模块规模	2个模块，最大模块8m x 4m x 4.4m, 20吨
合同模式	E+C+M 模块设计、制造、包装及项目管理
执行状态	2024.8-2024.12，设计完成，采购、制造进行中
Client	SMCDI
Location	Qingpu, Shanghai, RPC.
Module Unit	Qingpu Biological resource utilization center project, Ammonia unit
Module Size	2sets, Max: 8m x 4m x 4.4m, 20 ton
Contract	E+C+M, Design, Fabrication, Package, Management
Status	2024.8~2024.12, Design done, procurement/fabrication ongoing





乐天韩国正极材料LFP中试装置

业主名称	乐天
项目地点	韩国，全北益山市
模块名称	LFP中试装置，研磨工段模块
模块规模	3个模块，最大模块6.9m x 4m x 3.75m, 34吨
合同模式	E+C+M 模块设计、制造、包装及项目管理
执行状态	2024.9-2024.11，已交付
Client	Lotte
Location	Jeonbuk Yesan City, South Korea
Module Unit	LFP Pilot unit, Grinding modules
Module Size	3sets, Max: 6.9m x 4m x 3.75m, 34ton
Contract	E+C+M, Design, Fabrication, Package, Management
Status	2024.9~2024.11, Delivered





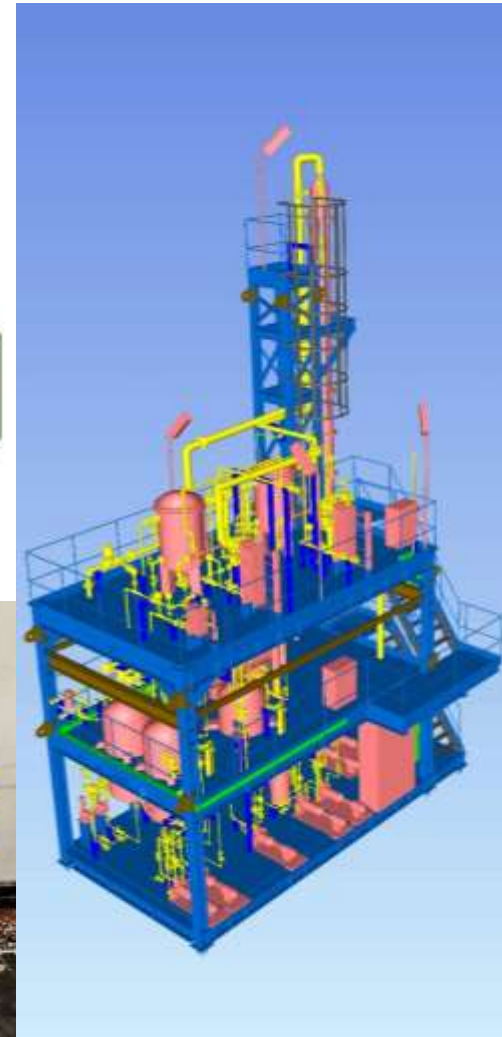
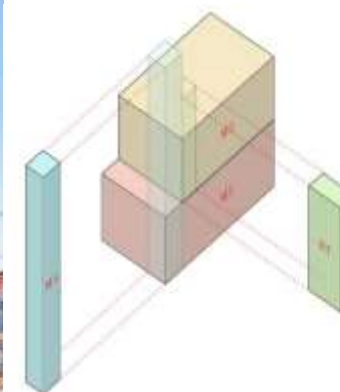
LEECC 典型项目

LEECC Project Reference



Ascend Elements 氨回收中试装置模块化项目

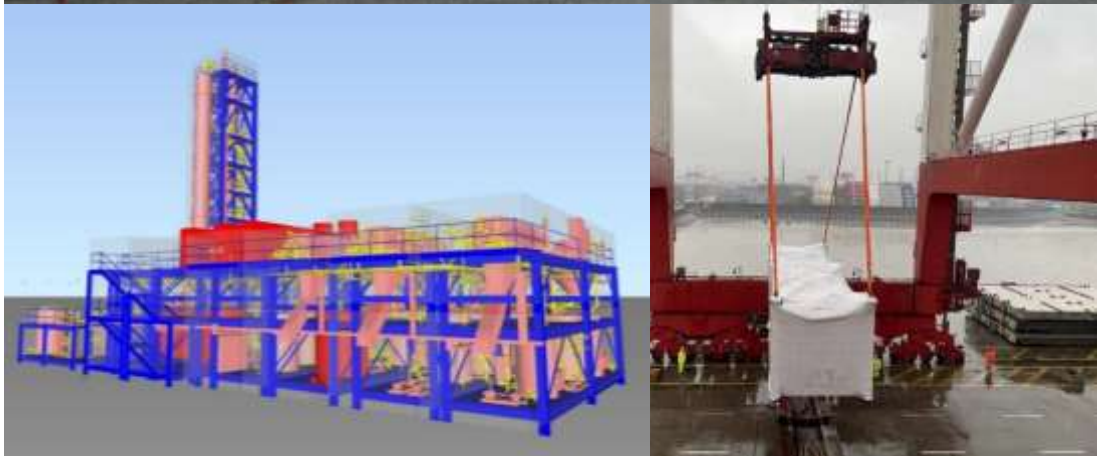
业主名称	Ascend elements
项目地点	美国，肯塔基洲
模块名称	脱氨中试装置
模块规模	4个模块，最大模块17.5m x 4m x 4.2m, 24吨
合同模式	EPFM 模块设计、采购、制造、包装及项目管理
执行状态	2024.3-2024.5，已交付
Client	Ascend elements
Location	Kentucky, US
Module Unit	Modularization for the ammonia recovery unit
Module Size	4sets, Max: 17.5m x 4m x 4.2m, 24 ton
Contract	EPFM, Design, Procurement, Fabrication, Management
Status	Delivered, 2024.3~2024.5





Ascend Elements 脱氨装置模块化项目

业主名称	Ascend elements
项目地点	美国，肯塔基洲
模块名称	锂电正极材料项目- 氨回收装置
模块规模	17个模块，最大模块3.5W x 17.5H x 4.5H, 34吨
合同模式	EPFM 模块设计、采购、制造、包装及项目管理
执行状态	2023.6-2024.3，已交付
Client	Ascend elements
Location	Kentucky, US
Module Unit	Modularization for the ammonia recovery unit
Module Size	17sets, Max: 3.5m x 17.5m x 4.5m, 34 ton
Contract	EPFM, Design, Procurement, Fabrication, Package, Management
Status	Delivered, 2023.6~2024.2





LEECC 典型项目

LEECC Project Reference



Ascend Elements MVR装置

业主名称	Ascend elements
项目地点	美国，肯塔基洲
模块名称	锂电正极材料项目 - MVR装置
模块规模	26套模块，最大17.9m x 3.9m x 4.3m，32吨
合同模式	EPFM 模块设计、制造、包装及项目管理
执行状态	2023.6-2024.1，已交付
Client	Ascend elements
Location	Kentucky, US
Module Unit	Modularization for the MVR unit
Module Size	26sets, Max: 17.9m x 3.9m x 4.3m, 32 ton
Contract	E+FM, Design, Fabrication, Package, Management
Status	Delivered, 2023.6~2024.1

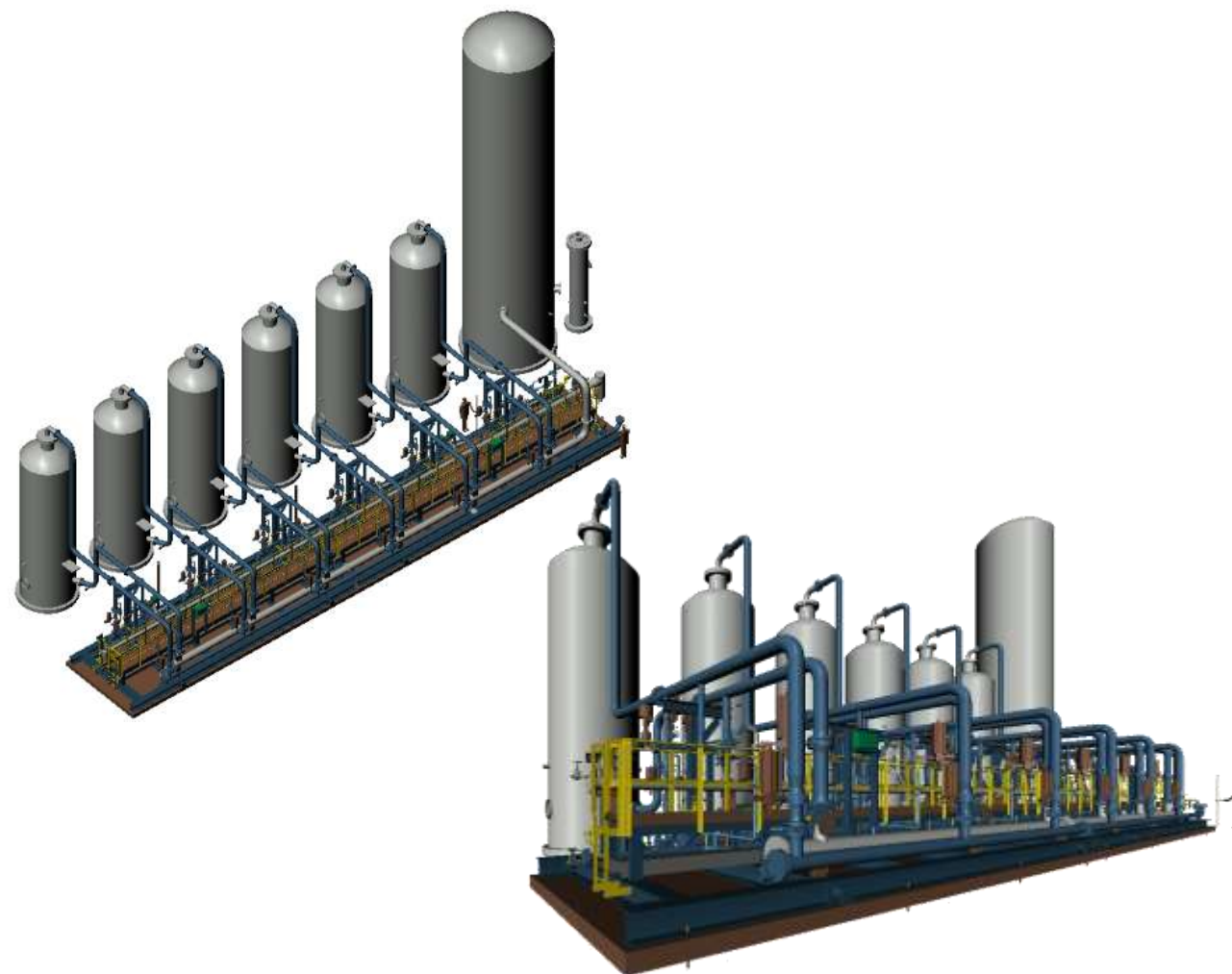




UOP PSA变压吸附氢气提纯装置

业主名称	UOP
项目地点	江苏斯尔邦
项目名称	丙烷产业链项目氢气变压吸附装置
工作范围	装置模块化设计
执行时间	2020

Client	UOP
Project Location	Jiang su, China
Projects	PSA
Scope of Work	Modularization design
Execution Time	2020





LEECC 典型项目

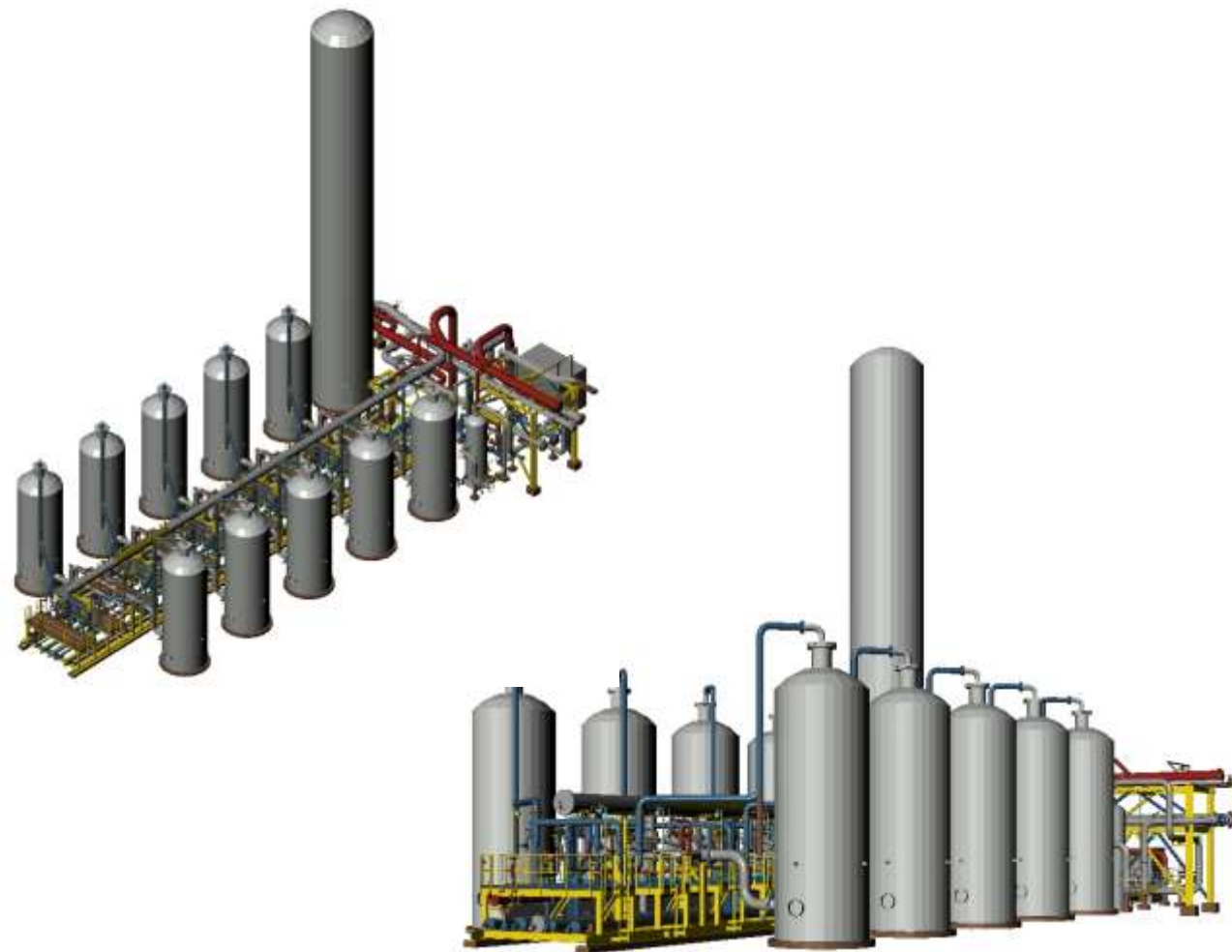
LEECC Project Reference



UOP PSA变压吸附氢气提纯装置

业主名称	UOP
项目地点	广西华谊
项目名称	变压吸附氢气提纯装置
工作范围	装置模块化设计
执行时间	2019

Client	UOP
Project Location	Guang Xi, China
Projects	PSA
Scope of Work	Modularization design
Execution Time	2019



我们今天所做的一切都是为了长远的未来

What we do today is there long term for the future



Today Through Tomorrow

THANK YOU