

INTRODUCING

syner^{te}tek^{PPA}

Global Engineering Solutions

By

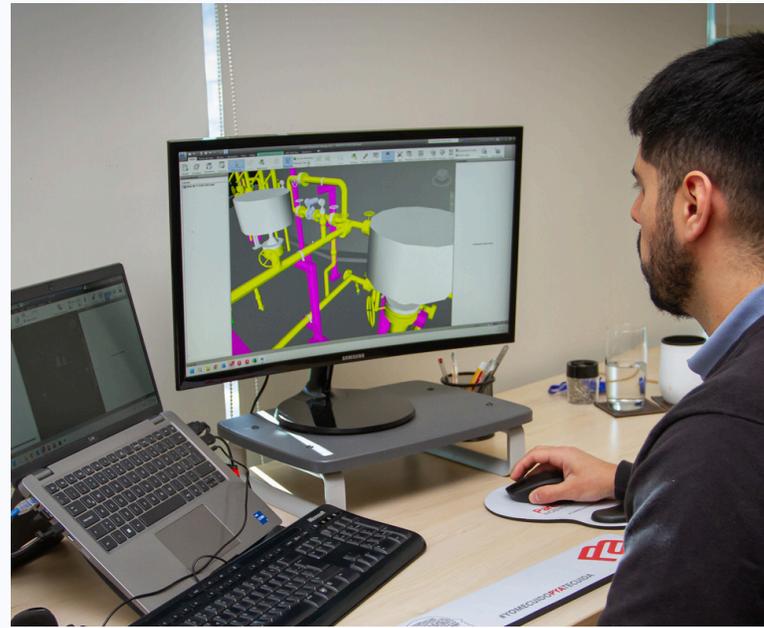


PegasusTSI and Pares&Alvarez, engineering services companies from USA and Chile, join their capabilities to create SynertekPPA.

Together we offer our vast combined experience in multiple industrial sectors:

PegasusTSI: polymers & chemicals, mining & minerals fertilizers, critical materials, power and consumer products.

Pares&Alvarez: Mining, oil & gas, energy, wood products, infrastructure and industrial manufacturing.



With a solid background in process engineering, SynertekPPA brings over 90 years of experience developing industrial projects around the world. From concept through feasibility, basic and detailed engineering, and supported with full procurement, project construction and commissioning management services, we can offer a complete range of project delivery services.

Throughout our joint history, we have worked in different corners of the world in The Americas, Europe, Middle East, Africa, Asia and Australia including Argentina, Peru, Chile, Brazil, Ecuador, Venezuela, Colombia, USA, Mexico, Spain, Germany, Turkey, Israel, Saudi Arabia, Qatar, UAE, Malaysia, Australia and Japan.



PegasusTSI Projects
Pares&Alvarez Projects

What we offer

With a team of more than 1,100 people having expertise in all engineering disciplines and with design and operating backgrounds, SynertekPPA has the experience to develop innovative and tailor-made solutions delivered with the highest standards of quality and collaboration.

Discipline	Employees
Process	61
Mechanical	97
Piping	26
Civil/Structural	170
Electrical	68
Instrumentation & Control	100
Cost Control	40
Constructability	9
Sustainability	4
HVAC & Architectural	9
BIM	17
QA/QC Inspector	71
Project Management / Project Engineering	85
Project Controls	52
Procurement/ Vendor Prints	17
Control Documents	15
Engineering Support	316
Total	1,111

SynertekPPA delivers the equivalent of over 2 million engineering hours per year

What we do

Through a close relationship with the client based on commitment, flexibility and responsibility, SynertekPPA create value for the clients' project in the areas of:

Front end Loading:

- Project Delivery Processes
- Project Management Processes and Planning
- Targeting Project Resources to Maximize Project Performance
- Laboratory Testing
- Technology Selection
- Financial Modeling
- Risk Management
- Use of Project Definition Rating Index (PDRI)
- Value Improvement Practice (VIP) Selection, Planning and Implementation
- Implementation of Industry Best Practices
- Documentation of Key Project Activities
- Preparation of Project Execution Plans (PEP) and Procedures

Engineering:

- Detailed engineering
- Equipment sizing & selection
- Mechanical specification
- Full-service process, mechanical-piping, electrical, I&C, civil-structural, telecommunications and industrial TI disciplines
- BIM & 3D modelling
- Architecture & urban planning
- Counterpart engineering
- Supply chain management: project supply chain strategy & planning, procurement & contract management, expediting, traffic & logistic

Commissioning services offered:

- Training and coaching services - Advice and methodology for commissioning chemical plants
- Pre-commissioning services - Management of activities associated with the checkout of new plant construction
- Commissioning services - Management of activities to bring the new plant into beneficial operation
- Owner Team
- Construction management
- Start-up services to support client teams

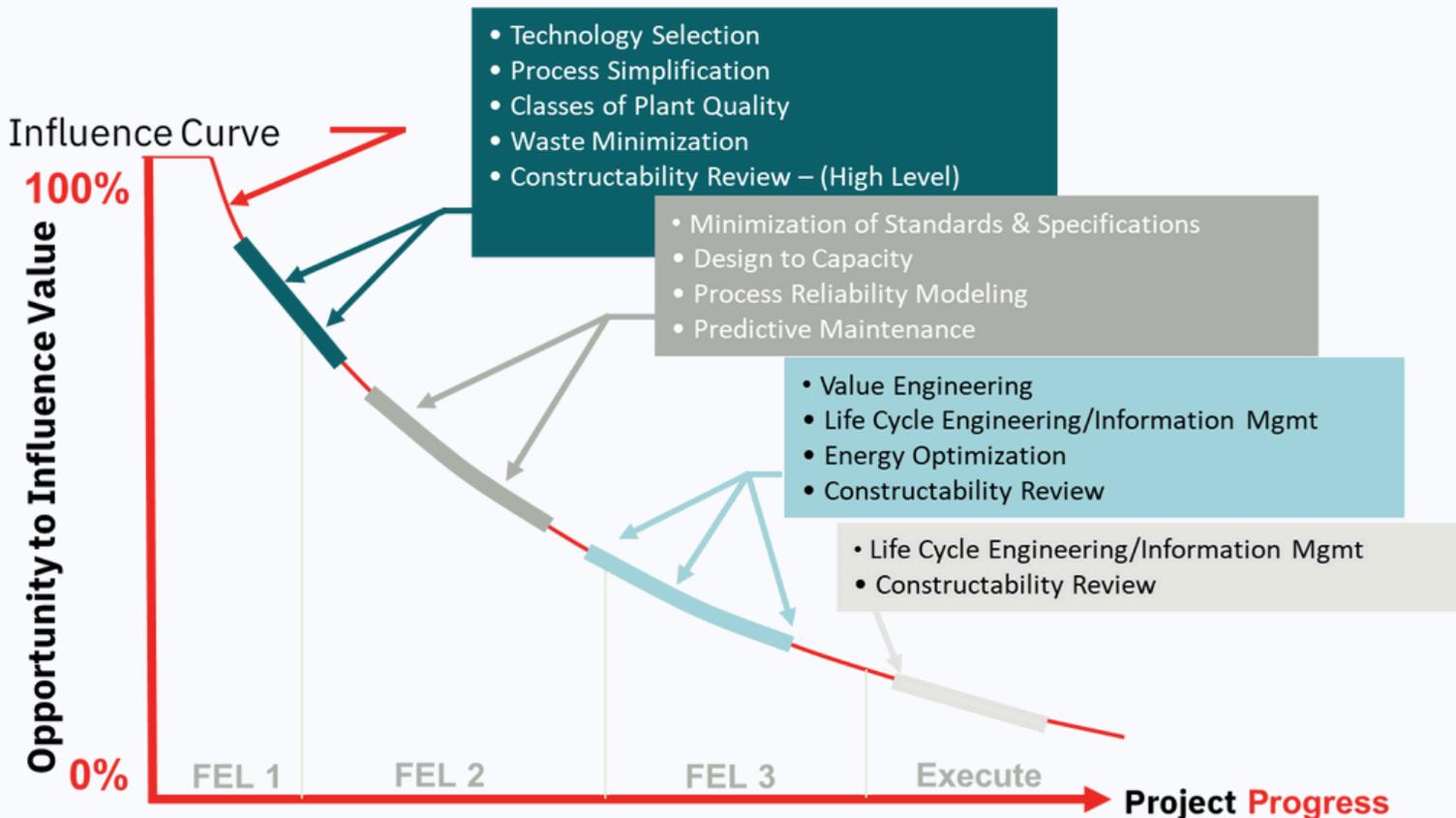


Value Improvement Practices

There are 12 VIPs currently identified by industry organizations for use on projects:

Value Engineering	Constructability	Classes of Plant Quality	Predictive Maintenance
Process Simplification	Waste Minimization	Energy Optimization	Minimization of Standards & Specifications
Design to Capacity	Technology Selection	Process Reliability Modeling	Life Cycle Engineering / Information Management (3D CAD)

When are VIPs Implemented



Applied Technologies

SynertekPPA strategically uses proven technology to improve the efficiency and quality of projects based on the application of Building Information Modeling (BIM) and Advanced Work Packaging (AWP) methodologies. With the experienced application of leading software in the construction industry and process plant design superior engineering solutions are delivered. We adapt the features and benefits of each of the advanced technological solutions to meet the requirements of our clients. This approach highlighting our ability to improve planning, collaboration and quality in the execution of complex engineering and construction projects. The application of the latest technology in BIM and AWP specialized software, combined with our own proprietary developments, allows us to create accurate digital models, optimized workflows, improved collaboration and allow for informed decisions throughout the project lifecycle.

Design Suites

<h3>Civil - Structural</h3>	<h3>Electrical - Instrumentation</h3>	<h3>Mechanical - Piping - Process</h3>
<h3>Point Cloud</h3>	<h3>Visual Constructability</h3>	<h3>4D and 5D Planning</h3>
<h3>Intelligent Document Management</h3>		<h3>BIM Review</h3>

Projects

Sterol Production Facility

Client: Arboris (Arizona Chemical/Härtling Joint Venture)

Location: Savannah, GA

US\$43 MM

Scope: FEL 1,2,3 / EPCM.



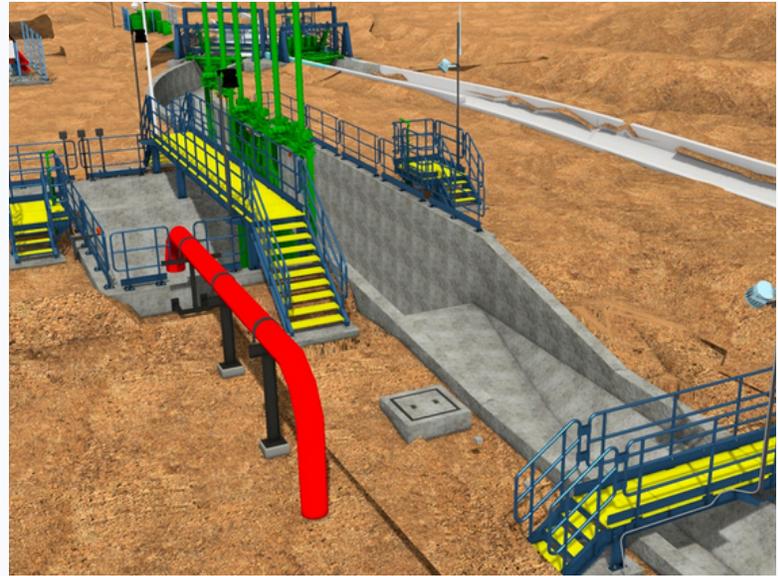
Talabre Dam: Engineering for Operational Continuity

Client: Codelco

Location: Calama, Antofagasta Region

US\$530 MM

Scope: Detailed and on-site engineering using BIM and AWP.



Rare Earth Magnet Recycling Facility

Client: HyProMag USA

Location: Fort Worth, Texas

US\$150 MM

Scope: Bankable Feasibility Study & EPCM.



Cuprochlor® Recovery Optimization for Secondary Sulphides - Minera Zaldivar

Client: Antofagasta Minerals

Location: Antofagasta Region

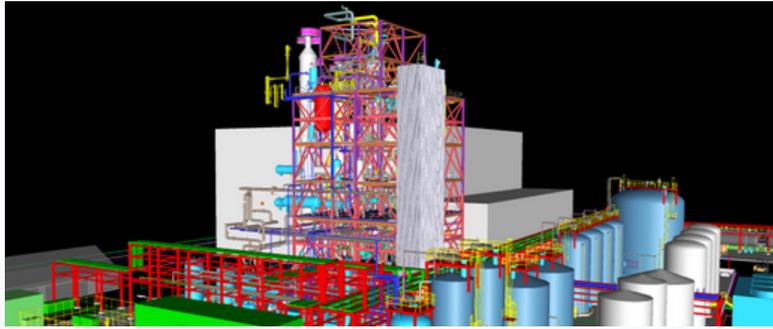
US\$210 MM

Scope: Feasibility study, basic and detailed engineering, 3D modeling using BIM, Capex estimation, factory inspection and on-site engineering.



CTO Fractionation Plant BEP

Client: Mainstream Pine Products
Location: South Carolina
US\$120 MM
Scope: FEED / Technology Integration.



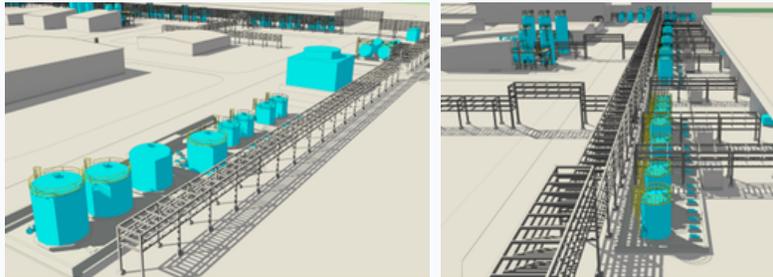
Rare Earths Project: First REE Processing Plant in Chile

Client: Aclara
Location: Penco, Bío Bío Region
US\$230 MM
Scope: Feasibility study and technical report for the Canadian NI 43-101 standard on disclosure for mining projects.



Rare Earth Separation Facility

Client: Lynas
Location: Seadrift, Texas
US\$300 MM
Scope: Detailed Engineering / FEED / Procurement.



PTX Plant for E-Methanol and E-Gasoline Production

Client: HIF
Location: Punta Arenas
US\$260 MM
Scope: Prepared and processed the EIS, performance the balance of plant for the MtG Plant and basic and detail engineering.



GTL Demonstration Plant

Client: Syntroleum
Location: Port o Catoosa, Ok
US\$35 MM
Scope: EPC.



Aconcagua Project: 1,000 l/s Multipurpose Desalination Plant

Client: IDE Technologies
Location: Puchuncaví, Vaparaíso Region
US\$162 MM
Scope: Architecture and detailed engineering.



Projects

Ammonia Plant OSBL (SIPCHEM)

Client: Haldor Topsoe
 Location: Jubail, KSA
 US\$271 MM
 Scope: FEED, LSTK ITB Package.



Plywood Plant Expansion and Modernization-EPCM Target Price

Client: CMPC Maderas
 Location: Collipulli, Araucania Region
 US\$120 MM
 Scope: Basic engineering, EPCM Contract.



Magesite Project

Client: Ma'aden – Saudi Arabian Mining Co.
 Location: Mine Site Zarghat, K.S.A. Process, Plant Site Al-Madinah, K.S.A.
 US\$90 MM
 Scope: FEED, EPCM, Commissioning.



New LPG Terminal for Northern Chile

Client: Oxiquim
 Location: Mejillones, Chile
 US\$27.5 MM
 Scope: Detailed engineering for semi-refrigerated LPG storage terminal, project management, planning, supervision and inspection.



Multiple projects

Client: Daikin America
 Location: Decatur, AL
 US\$35 MM
 Scope: Studies, FELs & Detailed Engineering & EPCM.



Fish Oil Processing Plant for Omega-3 Production

Client: Golden Omega
 Location: Arica, Chile
 US\$88 MM
 Scope: Conceptual, basic, detailed and on-site engineering, investment estimation, equipment procurement, construction program.



Projects

Methanol / Ammonia Complex

Client: Qatar Fuel Additives Company Limited
 Location: Mesaieed, Qatar
 US\$900 MM
 Scope: FEED



Expansion and Standardization of Berths Facilities at San Vicente Terminal

Client: SVTI
 Location: Talcahuano, Bío Bío Region
 US\$120 MM
 Scope: Studies, basic, detail & support engineering



Ultra Low Sulfur "Green" Diesel

Client: Takreer
 Location: Abu Dhabi, UAE
 US\$1.2 B
 Scope: FEED



Cryogenic Oxygen Production Plant

Client: Siderúrgica Huachipato
 Location: Talcahuano, Chile
 US\$20 MM
 Scope: Basic and detail engineering .



Phosphate Mining Project and SSP Production

Client: MBAC Fertilizer Corporation
 Location: Santana, Brazil
 US\$393 MM
 Scope: Pre-feasibility Study



Boron SX plant - Expansion of Lithium Carbonate Plant for Exar mining

Client: Tenova
 Location: Cauchari Salt Flat, Argentina
 US\$380 MM
 Scope: Detailed engineering



Leadership Team



Karl Ibadulla, Board Manager

Karl has over 45 years of experience in the areas of HSE, project management and process design for the fertilizer, chemical, pharmaceutical, oil & gas, refining, consumer products, environmental, industrial, and manufacturing, metals & mining, pulp & paper and power and energy business lines.

Stuart Singleton, Board Manager

Stuart has nearly 45 years of design and project management experience in the chemicals, fertilizer, polymers, petrochemicals, and gas processing industries. His primary responsibilities are to direct, promote, and coordinate financial aspects of the corporation to optimize performance and earnings, improve efficiency, help achieve its mission and goals, and to deliver outstanding customer service.



Víctor Contreras, Board Manager

Victor has over 38 years of work experience and has developed technical, administrative, and commercial skills. A Chemical Civil Engineer from the University of Concepción and representative of Chile in the 1984 Los Angeles Olympics in the rowing team, Víctor has led and developed more than 100 projects in various areas, organizations, and industrial sectors.



Ronald Sepúlveda, Board Manager

Ronald is a Chemical Engineer with over 34 years of experience in the areas of engineering and project management for a diverse range of industries, like specialty chemicals, fertilizers, minerals, consumer products, chemicals, and petrochemicals. Ronald's primary responsibility is to steer the organization in its business vision and strategic plan, achieving short-term results and long-term prosperity.



Andrés Jara, Board Manager

Andrés is a Chemical Civil Engineer from the University of Concepción. Since 2017 he has led the commercial area of Pares&Alvarez, where he consolidated the company's presence in the mining sector and extended the global reach of the firm with opening offices in Peru and Australia. Andrés has developed and managed more than 400 projects.



Ricardo Sepúlveda, Business Development

Ricardo is a Chemical Engineer from the University of Concepción with over 30 years of experience in business development and strategic growth. He leads global initiatives across the Chemicals, Renewable Fuels, Fertilizers, Critical Minerals, Petrochemicals, and Refining sectors. Ricardo provides executive leadership in expanding international partnership and market presence. He plays a key role in capturing opportunities across emerging and established markets worldwide.





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