



ENGINEERING IN DETAIL THAT WORKS

PRODUCING TRULY CONSTRUCTIBLE BIM SINCE 2008



WHERE WE ARE

SDENG is located in Volos, Greece.

A large, dynamic and modern city on the coast of the Pagasetic Gulf, shaded by the beautiful Pelion with its picturesque villages.

Volos is located almost in the center of Greece, between the capital Athens and the second largest city Thessaloniki.

Amongst the many advantages of the city, Volos is home of the Polytechnic University of Thessaly, where the most talented Engineers are recruited every year and join our team.

WHO WE ARE

We are one of the few EU based Engineering Firms, dedicated exclusively to workshop design of super-large steel projects

SDENG was founded in 2008 by Aris Theodorou Structural Engineer AUTH & Vasilis Gastis Mechanical Engineer UTH. The professional background for both of us comes from the steel fabrication industry.

Our first major project was the Elefsis Refinery Upgrade Project (14.000tns) in which the end user was Hellenic Petroleum S.A. and our client was Tecnicas Reunidas S.A.



WHY WE DO THIS

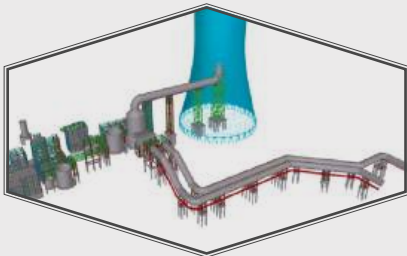
In SDENG and on every project we seek engineering excellence.

Industrial background and experience in all stages of fabrication is an added value in the engineering work chain and this is our strategic advantage.

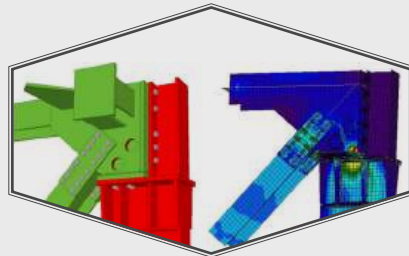
BENEFITS OF IMPLEMENTING BIM STRATEGY TO LARGE SCALE

- Reduction of overall construction cost by 10%
- Reduction of overall construction time by 15%.
- Reduction of overall engineering schedule by 30% due to automated processes and elimination of repetitive tasks.
- Creation of an engineering core that can support and coordinate project teams with no geographical restrictions.
- Homogenized engineering products in Steel-Civil-Pipe-Electrical disciplines and identifying grey areas in between.
- Excellence in engineering products.

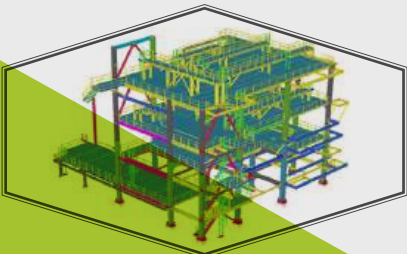
WHAT WE DO



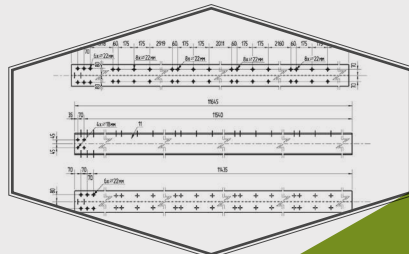
**Conceptual
Modeling**



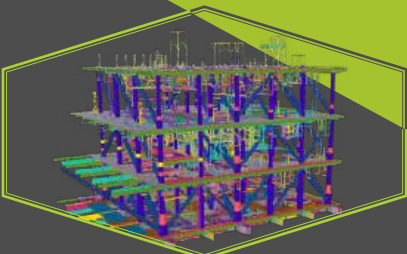
**Connection design
using FEM**



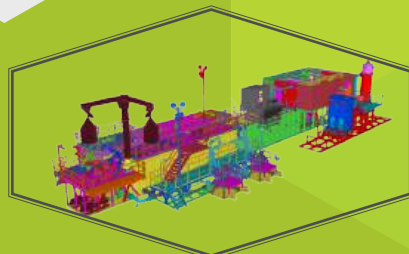
**Workshop Design
Modeling**



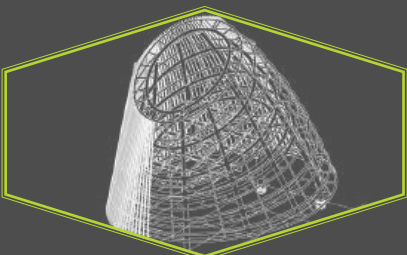
Fabrication Drawings



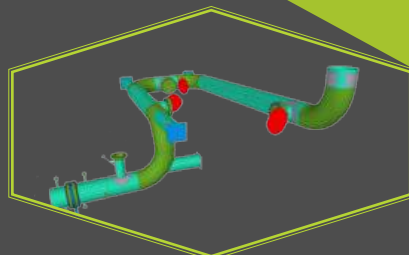
Offshore Structures



**Mechanical Structural
Modeling & Workshop Design**



**Special Steel Structures
Shells, AESS**



**Pipe Modeling &
Workshop Design**

CERTIFICATES



CERTIFICATE

Management system as per
ELOT ISO/IEC 27001 : 2013
 Information Technology - Security Techniques-Information Security Management Systems
 - Requirements

In accordance with TÜV HELLAS (TÜV NORD) S.A. procedures, it is hereby certified that

SDENG ENGINEERING BUREAU
"IASON" Terminal Building C
382 21 Port of Volos
Hellas

SDENG ENGINEERING BUREAU

applies a Management System in line with the above standard for the following scope

**Detail Engineering Services by Using Building Information Modeling (B.I.M.)
 Technology for Structural Steel Projects.**

S.o.A.: Version 2, Dated from: 09.09.2022

Certificate Registration No. 048 19 0024
 Audit Report No. IS-0143/2022



TÜV HELLAS (TÜV NORD) S.A. Certification Body
 Athens, 2022-09-23

This certification was conducted in accordance with the TÜV HELLAS (TÜV NORD) S.A. auditing and certification procedures and is subject to regular surveillance audits.

Valid from 2022-09-25
 Valid until 2025-09-24
 Initial certification 2019






TÜV HELLAS S.A. 282, Mesogeion Ave., 155 62 Cholongas Athens, Greece



CERTIFICATE

Management system as per
ISO 9001 : 2015
Quality Management Systems-Requirements

In accordance with TÜV HELLAS (TÜV NORD) S.A. procedures, it is hereby certified that

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SDENG ENGINEERING BUREAU

applies a management system in line with the above standard for the following scope

**Detailed Engineering Services by Using Building Information Modeling (B.I.M.)
 Technology for Structural Steel Projects.**

Certificate Registration No. 041 19 0082
 Audit Report No. E-3270/2022



TÜV HELLAS (TÜV NORD) S.A. Certification Body
 Athens, 2022-07-04

This certification was conducted in accordance with the TÜV HELLAS (TÜV NORD) S.A. auditing and certification procedures and is subject to regular surveillance audits.

End of validity of previous certificate: 2022-06-30
 Valid from 2022-07-04
 Valid until 2025-06-30
 Initial certification 2019






TÜV HELLAS S.A. 282, Mesogeion Ave., 155 62 Cholongas, Athens, Greece

PROJECTS



Burglenfeld Raw Mill & Preheater Tower / 2017 / Germany

Client	Heidelberg Cement A.G.
Contractor	IKN GmbH
Services	Detail engineering services, connection & workshop design
Scope	4.500 Tn new steel structures
Duration	10 months



MAE MOH Power Plant / 2015 / Thailand

Client	Electricity Generating Authority of Thailand
Contractor	SETEC Energy
Services	Detail engineering services, connection & workshop design
Scope	8.000 Tn new steel structures
Duration	11 months



Eleusis Refinery Upgrade Project / 2009 / Greece

Client	Hellenic Petroleum S.A.
Contractor	Tecnicas Reunidas S.A.
Services	Detail engineering services & workshop design
Scope	14.000 Tn new & 1.500 Tn revamped steel structures
Duration	12 months



VGO Deep Processing Complex (Stage 1) / 2013 / Russia

Client	LUKOIL
Contractor	Tecnicas Reunidas S.A.
Services	Detail engineering services & workshop design
Scope	5.000 Tn new steel structures
Duration	9 months



Event Center of Ayia Napa Marina / 2020 / Cyprus

Client	ALUMIL
Contractor	TERNA S.A.
Services	Detail engineering services, workshop design
Scope	400 Tn steel, aluminum and glass structures
Duration	6 months



Integrated Gas Development Phase II / 2019 / UAE

Client	ADNOC LNG
Contractor	Tecnicas Reunidas S.A.
Services	Detail engineering services & workshop design
Scope	16.000 Tn new & 1.000 Tn revamped steel structures
Duration	24 months



Shah Deniz Stage 2 / 2014 / Azerbaijan

Client	BP Exploration
Contractor	AZFEN Tekfen Engineering
Services	Detail engineering services, connection & workshop design
Scope	5.000 Tn new steel structures
Duration	6 months



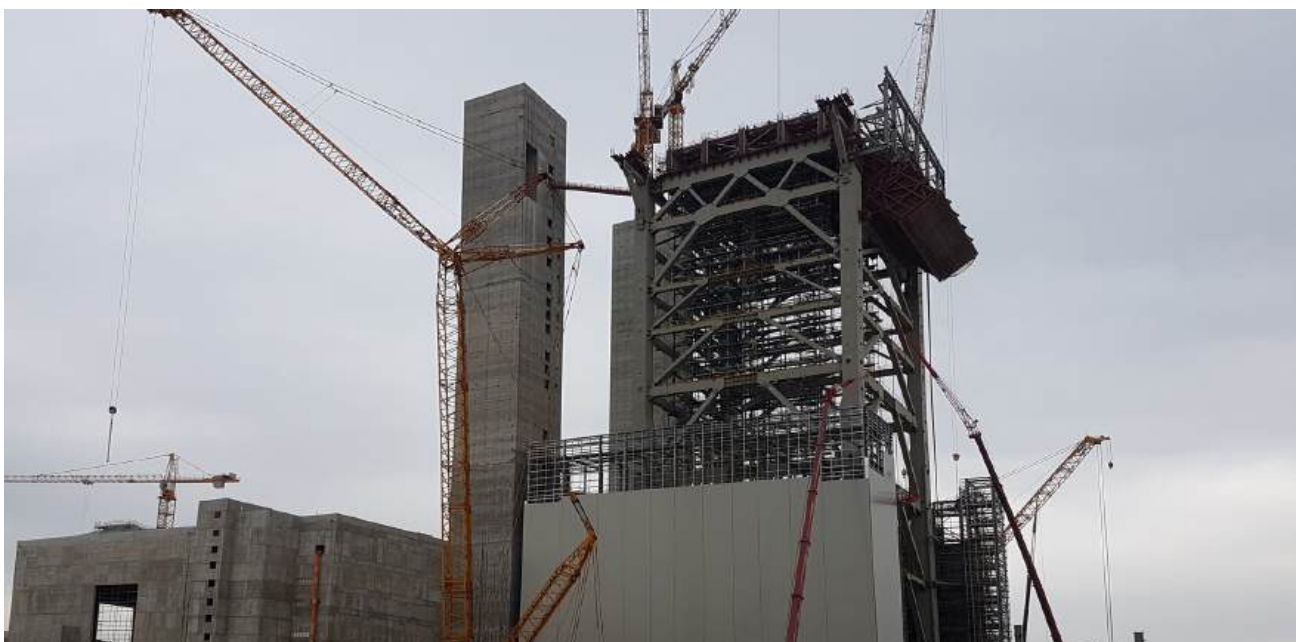
Baku Olympic Stadium / 2013 / Azerbaijan

Client	SOCAR
Contractor	Tekfen Construction
Services	Detail engineering services, connection & workshop design
Scope	20.000 Tn new steel structures
Duration	12 months



Cessao Onerosa Area Development / 2015 / Brazil

Client	Petrobras
Contractor	Tekfen Engineering / Technip S.A.
Services	Detail engineering services & workshop design
Scope	22.000 Tn new steel structures
Duration	18 months



Ptolemais Unit V 660 MW Power Plant / 2018 / Greece

Client	Public Power Company of Greece
Contractor	TERNA S.A.
Services	Detail engineering services & workshop design
Scope	7.500 Tn new steel structures
Duration	12 months



Upgrade, Maintenance, Management & Operation of Aegean Regional Airports / 2019 / Greece

Client	FRAPORT GREECE
Contractor	INTRAKAT S.A.
Services	Detail engineering services, workshop design
Scope	4.000 Tn new steel structures
Duration	12 months



Future Camp Nou

Client	Spotify Technology S.A.
Contractor	LIMAK HOLDING
Services	Detail engineering services, connection & workshop design
Scope	35.000Tn new steel structures
Duration	24 months

REFERENCES 2013-2023

YEAR	PROJECT	LOCATION /CLIENT	TONNAGE (tns)	DESIGN STANDARDS
2023	UP3-Future Camp Nou	SPAIN/LIMAK GROUP/FC BARCELONA	32000	EN
2022	Abu Dhabi Polymers Company Ltd. Borouge 4	UAE/ADNOC& BOREALIS AG	12000	AISC
	RLTO EXPANSION AND OFFPLOT FACILITIES OF THE NORTH FIELD EXPANSION PROJECT (EPC-3)	QATAR/Tecnicas Reunidas	4000	AISC
	Ammonia Urea Kingisepp2 (RU) EPC / RUSSIA	RUSSIA/TCM	4000	GOST
2021	ArcelorMittal Italia Desulfurization Project	ITALY / tkIS	250	EN
	CBR Project Cogen PI & BOP Project	CANADA / Tecnicas Reunidas	2500	CISC
	Prototype Electrolysis Plant HyLIOS	NA / tkUCE	7000	EN
2020	Arctic LNG 2 Project	RUSSIA / TechnipFMC, Renaissance Construction	15000	GOST
	NEW NAPHTHA COMPLEX EPC MOTOR OIL (HELLAS) – CORINTH REFINERIES S.A.	GREECE / TechnipFMC	5000	EN
	NCIC Fertilizer Complex	EGYPT / tkIS	7000	EN
2019	ADNOC INTEGRATED GAS DEVELOPMENT PHASE II	UAE / Tecnicas Reunidas	15000	AISC
	MOL POLYOL PROJECT	HUNGARY / tkIS	7000	EN
	UPGRADE MAINTENANCE MANAGEMENT & OPERATION OF 15 REGIONAL AIRPORTS	GREECE / Fraport S.A.	4000	EN
2018	BFI Fertilizer Complex	BRUNEY / tkIS	2000	AISC
	AST2 PROJECT	CANADA / Tecnicas Reunidas	6500	CISC
	PTOLEMAIS UNIT V 660MW POWER PLANT	GREECE / Public Power Company	7500	EN
2017	HEYDAR ALIYEV REFINERY	AZERBAIJAN / SOCAR AZFEN TEKFEN	2500	AISC
	BURGLENGENFELD RAW MILL AND PREHEATER TOWER	GERMANY / HEIDELBERG CEMENT A.G.	4500	EN
2016	TRANS ANATOLIAN NATURAL GAS PIPELINE PROJECT	TURKEY / TEKFEN	1500	AISC
	SHELVER CEMENT CO	GERMANY / HEIDELBERG CEMENT A.G.	3000	EN
	GAS TRAIN 5 PROJECT MMA REFINERY	UAE / Tecnicas Reunidas	8500	AISC
2015	DEIR ALI II COMBINED CYCLE POWER PLANT	SYRIA / ANSALDO ENERGIA METKA GROUP	3500	EN
	MAE MOH POWER PLANT SETEC ALSTOM POWER SYSTEMS	THAILAND / ELECTRICITY GENERATING AUTHORITY OF THAILAND SETEC ENERGY	8000	AISC
	CESSAO ONEROSA AREA DEVELOPMENT VESSEL P-76	BRAZIL / TechnipFMC, TEKFEN	22000	AISC
	ONSHORE PIPELINE & HABSHAN MODIFICATIONS	UAE / Tecnicas Reunidas	7500	AISC
2014	SHAH DENIZ STAGE 2 PROJECT	AZERBAIJAN / AZFEN TEKFEN	5000	EN
	CMS CLINKER SDN. BHD.	MALAYSIA / Christian Pfeiffer	3000	EN
	NWR Sturgeon Refinery Project	CANADA / Tecnicas Reunidas	1000	CISC
2013	VGO Deep Processing complex (Stage 1)	RUSSIA / Tecnicas Reunidas	5000	GOST
	Baku Olympic Stadium	AZERBAIJAN / SOCAR TEKFEN	20000	EN
	Eurorig 10	ALGERIA / BENTEC	500	EN



ENGINEERING BUREAU

SDENG Engineering Bureau
IASON Terminal Building, Block C, Port of Volos, Greece, PO Box GR 38221
N 39.358866 / E 22.944539
T. +30 24210 44024
Commercial Register: No.44536, VAT No. EL 800390903

sdeng.gr