





WE KNOW HOW

Enhancing facility performance, saving electrical energy and reducing carbon emissions through advanced know how and customised interventions.



In a Nutshell

WHO WE ARE

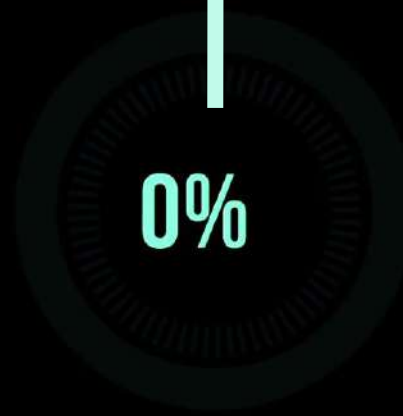
SEMAN Group designs and installs custom systems to eliminate power quality issues, improve facility reliability, increase electrical installations' reserve and reduce power consumption

Proven excellence

We have a track record of consistently exceeding expected results



year track record of delivering successful projects



track record of exceeding targeted energy savings in 500+ projects

World leading technical expertise

Seman's founder, **Dr. K. Satsios**, senior member of IEEE, and global authority on power quality & energy saving. over 50 PhDs and scientists specialized in power quality and power savings

Global Presence

WHO WE ARE

Offices in 7 countries:

United States

Canada

UAE

Germany

Greece

Bulgaria

Romania



Fields of Operation

Energy Saving in existing Factories, Skyscrapers, Commercial Centers, Data Centers & Power Distribution Lines.

Design and Construction of new electrical installations with Energy Saving philosophy.

 **WE KNOW HOW**





Prominent Clients

SUCCESSFUL PARTNERSHIPS



Measurable Results

Proving the real improvements

Decreased electricity consumption/cost



Lower electricity by **7 to 13%** (kWh/€, \$)

7-13%

Decreased thermal stress & reduced maintenance costs



Lower thermal stress & electric equipment's maintenance cost by **40 to 70%**

40-70%

Increased power reserve



Increased available power by **15 to 35%** (kVA)

15-35%



Unique Selling Proposition (USP)



Guaranteed energy savings
with money back policy



100% success in overpassing our saving goals

REAL CASES OF OUR PORTFOLIO

	Guaranteed saving according to the contract (%)	▲ Saving achieved (%)	Annual Energy Cost without energy saving systems (€)	Annual Energy Cost with energy saving systems (€)	Annual Money Saving (€)	Guaranteed Pay Back Period of the project (years)	▼ Real Pay Back Period of the project (years)
DIAXON S.A.	9,20	11,50	€3,520,983.53	€3,116,070.43	€404,913.10	2,50	2,00
HELLENIC PETROLEUM CC PLANT	6,80	9,80	€9,686,422.15	€8,737,152.78	€949,269.37	2,00	1,39
ALFAWOOD S.A. GREVENA	14,00	18,60	€3,978,713.72	€3,238,672.97	€740,040.75	1,66	1,25
ADOCIM TURKEY TITAN GROUP	5,00	6,10	€12,235,990.30	€11,489,594.79	€746,395.51	2,20	1,80
PAPASTRATOS S.A.	5,86	10,34	€2,095,178.43	€1,878,536.97	€216,641.45	2,00	1,32
ALFAWOOD S.A. BULGARIA	12,00	13,10	€253,782.01	€220,536.56	€33,245.45	1,30	1,19
ALUMIL S.A. KILKIS	9,80	11,60	€3,211,293.17	€2,838,783.16	€372,510.00	2,00	1,69
ALMARAI SAUDI ARABIA	8,60	10,95	€20,881,109.54	€18,866,319.54	€2,014,790.00	3,14	2,45
ALUNEF	11,00	12,59	€299,647.04	€261,921.48	€37,725.56	2,00	1,75
ALPRO BOSNIA	11,00	13,69	€351,560.48	€303,431.85	€48,128.63	2,66	2,14
RAJHI STEEL SAUDI ARABIA	10,15	15,74	€5,005,900.00	€4,217,971.34	€787,928.66	3,20	2,06
GENERAL MILLS HELLAS S.A.	11,05	20,69	€445,124.41	€353,028.17	€92,096.24	2,60	1,39
ZANAE S.A.	9,28	11,64	€789,812.27	€697,878.12	€91,934.14	2,25	1,79
VODAFONE S.A.	6,80	14,20	€889,252.26	€762,777.74	€126,474.52	2,33	1,12
COCA COLA SCHIMATARY	8,80	9,00	€4,150,773.26	€3,763,092.05	€387,681.20	1,67	1,60
HALYPS CEMENT S.A. ITALCEMENTI GROUP	5,32	9,00	€8,072,350.25	€7,345,838.46	€726,511.79	3,00	1,80
THRACE MILLS S.A.	11,00	12,11	€768,627.77	€661,019.89	€107,607.89	1,65	1,56
DRUJBA GLASSWORKS PLOVDIV BG	7,80	11,64	€3,340,102.59	€2,951,314.67	€388,787.92	2,16	1,86



CASE STUDIES

PROUD OF OUR WORK





CASE STUDY:

Rajhi Steel, Saudi Arabia Steel Mill

(55 MW installed power)



Rajhi Steel, Saudi Arabia Steel Mill

38 customised interventions installed

Guaranteed Savings

-10,15%

Achieved Savings

-15,74%

Annual savings

\$790.000 USD





CASE STUDY:

Almarai, Saudi Arabia Dairy Factory

(80 MW installed power)



Almarai, Saudi Arabia Dairy Factory

243 customised interventions installed

Guaranteed Savings

-8,60%

Achieved Savings

-10,95%

Annual savings

\$2.015.000 USD





CASE STUDY:

Hellenic Petroleum, Greece Oil & Gas Plant

(50 MW installed power)



Hellenic Petroleum, Greece Oil & Gas Plant

Customised interventions installed at MV and LV

Guaranteed Savings

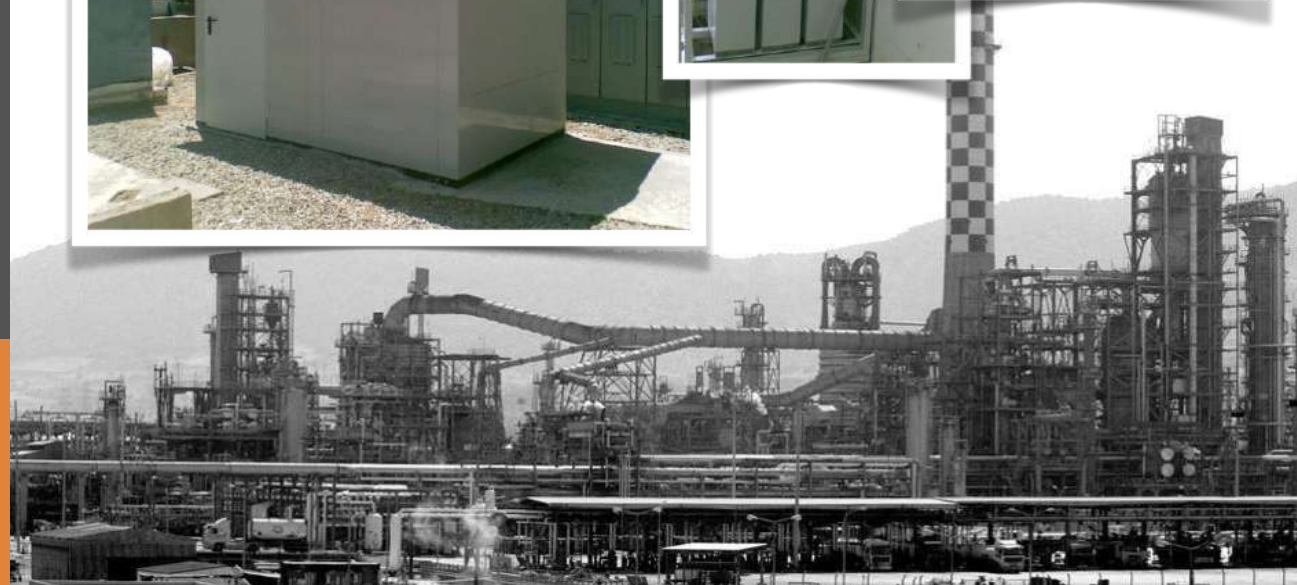
-6,80%

Achieved Savings

-9,80%

Annual savings

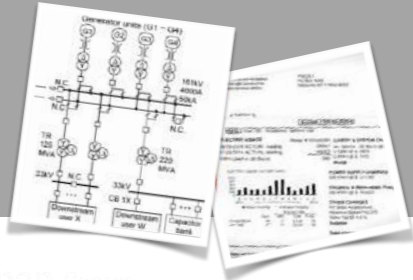
\$950.000 USD



SEMANT's Know How application

Evaluate Opportunity

- Gather electrical system data
- Preliminary scientific study
- Guaranteed savings and financial return



Scientific Study

- On-site measurements
- FEM simulations
- Load flow analysis
- Custom Interventions design



Build & Install

- Build equipment
- Software development
- Install during planned maintenance



6 - 9 months

Validate Results

- Commission
- Measure and calculate savings according to International Standards





Discovering your saving opportunity

You provide:

Electrical bills
(last 12 or 24 months)

Single-line drawings

Nominal data of the
installed electric loads
and power
transformers

Data of the installed
power electronics



Our Artificial Intelligence expert system provides:

Guaranteed electric energy savings

Types and installed power of custom interventions

Cost benefit analysis
(financial return)

