



February 2015

## **Elvan S.A.**

20 km Lavriou Ave.,  
Peania, 19002  
Greece

Phone: +30 -210- 6644161 / +30 -210 – 6646091

Fax: +30- 210 6644166

<http://www.elvan.gr>

e-mail: [info@elvan.gr](mailto:info@elvan.gr)

## Basic Information

- ❑ Founded in 1972
- ❑ Manufacturer of cable trays and all associated accessories and lightning protection material
- ❑ Owned production facilities with production capacity of 5,000 tons of steel p.a.
- ❑ 96% owned by the founding family and managing director
- ❑ Current permanent staff : 42 (26 in production, 16 management)
- ❑ Operating in Greece and Romania (Elvan Electric Ro)
- ❑ Exporting to Balkans and Middle East

## Products

- ❑ Cable Trays
- ❑ Cable Ladders
- ❑ Marine Type Cable Trays
- ❑ Supports for Cable Trays
- ❑ Pipe Supports
- ❑ Heavy Duty Supports
- ❑ Lightning Protection Systems
- ❑ Supports for Solar Panels

## Certifications

- ☐ All products manufactured according to applicable international standards (EN ISO, DIN etc)
- The only company in Greece, and one of the few in Europe, certified for fire resistance of their cable trays for 90 minutes acc. to DIN 4102 – Part 12.
- ☐ ISO 9001:2000 for design, manufacturing and sales of cable trays and support systems by TUV NORD
- Inspection Reports from international audit companies (upon customer request) including inspection Reports by TUV (for the Great Mabruk Development project - Libya) and Lloyds (HELLENIC PETROLEUM Refinery in Thessaloniki – Greece).

## Elvan Managing Director

### Konstantinos Kastanis



Konstantinos is Elvan's Managing Director. He started working in Elvan as Sales Manager in 1988. In 2004, he took over the management of the company.

During this time Elvan, Konstantinos established himself as a major player in the Greek market while he managed to expand the company's operations in both new countries (Balkans, Middle East) as well as new products (lightning protection – photovoltaic supports). Sales have grown from 150.000€ in 1988 to 7.000.000€ in 2012.

He has graduated from the National Technical University of Athens with a degree in Mechanical Engineering and earned an MBA in the University of Indianapolis, USA.

He is fluent in German and English.



## COMPANY PROFILE

# **APPENDIX A**

## **REFERENCE LIST**



## COMPANY PROFILE



## ENERGY

Elvan has accumulated extensive experience and knowhow in oil and gas, energy and industrial projects having an impressive portfolio of successfully completed projects in this sector.

### Vassiliko Power Station Phase III

CYPRUS



**Contractor**

**Client**

**Status**

**Description**

Joint Venture: J&P (Overseas) Ltd 25% - J&P-Avax S.A. 75%

Electricity Authority of Cyprus

Completed 2009

Complete combined cycle power station of 220 MW, comprising of two 6FA+E General Electric gas turbines putting out 75 MW each, plus a 70 MW turbine utilizing the exhaust of the two gas turbines, making use of either diesel fuel or natural gas

### VTT Vasiliko Oil Tank Project CYPRUS



**Contractor**

**Client**

**Status**

**Description**

Joint Venture: J&P (Overseas) Ltd 45% - J&P Ltd 55%

VTT Vasiliko (Affiliate of Vitol International)

Completed 2014

Oil Tank Farm of a net capacity of 630,000 cubic meters (34 oil storage tanks and 1 oily water tank) at Vasiliko in the Republic of Cyprus.

<b>Great Mabruk Development Project</b>	
<b>LIBYA</b>	
	
<b>Contractor</b>	J&P (Overseas) Ltd
<b>Client</b>	TOTAL
<b>Status</b>	Completed 2007
<b>Description</b>	Detailed engineering, procurement and construction of Great Mabruk Field Development Gas & Oil Separation Plant (GOSP) for east and central Mabruk fields. Extension and rehabilitation of the existing GOSP facilities, de-salter, cleaning, dewaterers, 8" and 10" flow lines, water injection network and all relevant electrical instrumentation works, as well as control system equipment

<b>Combined Cycle Power Plant of 701 MW, Deir Ali-Damascus, SYRIA</b>	
<b>Contractor</b>	Consortium: METKA - ANSALDO Energia, with METKA as leader
<b>Client</b>	Public Establishment of Electricity for Generation (PEEG)
<b>Status</b>	<p>In progress</p> <p>Complete combined cycle power plant on turn-key basis working on natural gas (main fuel) and distillate oil (back-up fuel), and consisting of 3 sections:</p>
<b>Description</b>	<ul style="list-style-type: none"> <li>– Section 1: first open cycle gas turbine (OCGT) unit with capacity of 279MW at ISO conditions (complete, in operation)</li> <li>– Section 2: second open cycle gas turbine (OCGT) unit with capacity of 279MW at ISO conditions (complete, in operation)</li> <li>– Section 3: completion of the combined cycle plant with total net capacity 701MW at site Conditions (in progress)</li> </ul>

**Aliveri Unit V**

420MW Combined Cycle

GREECE



**Contractor**

Public Power Corporation S.A.

**Client**

METKA S.A.

**Status**

Completed 2007

**Description**

420 MW Single Shaft Combined Cycle Unit V, natural gas fired, with auxiliary installations.

**Lavrio Unit IV**

550MW Combined Cycle

GREECE



**Contractor**

Public Power Corporation S.A.

**Client**

Consortium: GEC Alstom - METKA

**Status**

Completed 1996

**Description**

550MW Combined Cycle Unit, natural gas fired with auxiliary installations



**Lavrio Unit V**

378MW Combined Cycle

GREECE



**Contractor**

Public Power Corporation S.A.

**Client**

METKA S.A.

**Status**

Completed 2004

**Description**

378MW Single Shaft Combined Cycle Unit V, natural gas fired with auxiliary installations

**Fast Track Simple Cycle Project of 146 MW, Zarqa – JORDAN**

**Contractor**

Consortium METKA - Power Projects

**Client**

Samra Electric Power Co. (SEPCO)

**Status**

Completed 2012

**Description**

Alstom GT13E2 gas turbine and related auxiliaries, with output of 146 MW at site conditions.

**Combined Cycle Project of 143 MW, Zarqa - JORDAN**

**Contractor**

Consortium METKA - Power Projects

**Client**

Samra Electric Power Co. (SEPCO)

**Status**

In progress

**Description**

143 MW expansion to an existing power plant, by addition of combined cycle plant of Alstom technology to the existing open cycle gas turbines

**Open cycle gas turbine power plant of 590,726 MW, Hassi R'mel - ALGERIA**

**Contractor**

Consortium General Electric - METKA S.A.

**Client**

Société Algérienne de Production de l'Electricité (SPE Spa)

**Status**

In progress

**Description**

Dual fuel (natural gas/diesel) open cycle power plant, with three gas turbines and a total output of 590,726 MW at site conditions.

**Open cycle gas turbine power plant of 368 MW, Hassi R'mel - ALGERIA**

**Contractor**

Consortium General Electric - METKA S.A.

**Client**

Société Algérienne de Production de l'Electricité (SPE Spa)

**Status**

In progress

**Description**

open cycle gas turbine power plant with two gas turbines and a total output of 368,152 MW at site conditions

<b>Aluminium of Greece Co-generation Plant, 320MW, GREECE</b>	
<b>Contractor</b>	METKA
<b>Client</b>	Aluminium of Greece S.A.
<b>Status</b>	Completed in 2005
<b>Description</b>	320 MW (electrical, guaranteed net output) co-generation plant
<b>Petrom Brazi, Combined Cycle Power Plant of 860 MW, ROMANIA</b>	
<b>Contractor</b>	Consortium GE Energy - METKA
<b>Client</b>	Petrom (member of OMV Group)
<b>Status</b>	Completed (2008)
<b>Description</b>	860 MW combined cycle power plant
<b>Megalopolis Unit V, 811 MW Combined Cycle, GREECE</b>	
<b>Contractor</b>	Public Power Corporation S.A.
<b>Client</b>	METKA S.A. (10%) – TERNA (90%)
<b>Status</b>	In progress
<b>Description</b>	Gas fired combined cycle power plant with a net power output of 811 MW
<b>Thisvi, 421 MW Combined Cycle Power Plant, GREECE</b>	
<b>Contractor</b>	ElpEdison Electricity Production
<b>Client</b>	Consortium: Edison - AKTOR
<b>Status</b>	Completed (2010)
<b>Description</b>	421 MW Combined Cycle gas-fired Power Plant
<b>Ghiona Hydropower Plant, 1 x 8.5 MW, GREECE</b>	
<b>Contractor</b>	METKA
<b>Client</b>	Public Power Corporation
<b>Status</b>	Completed
<b>Description</b>	Hydropower Plant, 1 x 8.5 MW
<b>Stratos Hydropower Plant, 2 x 3.5 MW, GREECE</b>	
<b>Contractor</b>	Consortium: VOEST ALPINE AG - METKA - ALSTOM JEUMONT - AEG HELLAS
<b>Client</b>	Public Power Corporation
<b>Status</b>	Completed
<b>Description</b>	Hydropower Plant, 2 x 3.5 MW
•	
<b>Hellenic Petroleum Refinery, Elefsina, GREECE</b>	
<b>Contractor</b>	AKTOR
<b>Client</b>	Hellenic Petroleum
<b>Status</b>	Completed
<b>Description</b>	Reconstruction of oil refinery units, installation of new towers and modern compressors and addition/ upgrading of automation systems in the control centre
<b>Hellenic Petroleum Refinery, Aspropyrgos, GREECE</b>	
<b>Contractor</b>	TERNNA
<b>Client</b>	Hellenic Petroleum
<b>Status</b>	Completed
<b>Hellenic Petroleum Refinery, Aspropyrgos, GREECE</b>	
<b>Contractor</b>	SITIE Italy

<b>Client</b>	Hellenic Petroleum
<b>Status</b>	Completed
<b>Hellenic Petroleum Refinery, Aspropyrgos, GREECE</b>	
<b>Contractor</b>	TECHIMP - Italy
<b>Client</b>	Hellenic Petroleum
<b>Status</b>	Completed

<b>Hellenic Petroleum Refinery, Thessaloniki, GREECE</b>	
<b>Contractor</b>	FOSTER WHEELER
<b>Client</b>	Hellenic Petroleum
<b>Status</b>	Completed

- |   |   |
|---|---|
| <ul style="list-style-type: none"> <li>• THERMAL POWER STATION AGHIOS DIMITRIOS V</li> <li>• THERMAL POWER STATION KOMOTINI</li> <li>• FILTERS MEGALOPOLI</li> <li>• FILTERS AGHIOS DIMITRIOS</li> <li>• THERMAL POWER STATION VASILIKOS IV CYPRUS</li> <li>• THERMAL POWER STATION VASILIKOS V CYPRUS</li> <li>• THERMAL POWER STATION THISVI</li> <li>• THERMAL POWER STATION MEGALOPLIS IV</li> <li>• REFINERY MOTOR OIL</li> <li>• REFINERY ELF LIBYA</li> <li>• REFINERY TOTAL LIBYA</li> <li>• REFINERYRABIGH – SAUDI ARABIA</li> <li>• Mina Abdulla Refinery – KUWAIT</li> </ul> | <ul style="list-style-type: none"> <li>ANSALDO</li> <li>ANSALDO - AECEK</li> <li>A.B.B.</li> <li>METKA</li> <li>J&amp;P – ABAE</li> <li>J&amp;P – ABAE</li> <li>TERNA</li> <li>TERNA</li> <li>VARIOUS CONTRACTORS</li> <li>J&amp;P INDUSTRIAL</li> <li>J&amp;P INDUSTRIAL</li> <li>SETE S.A.</li> <li>C.C.C.</li> </ul> |
|---|---|

## Roads & Infrastructure

Elvan has advised and supplied material for many challenging roads and infrastructure projects and our portfolio includes transportation projects, road and water conveyance tunnels, bridges, dams, irrigation schemes, steel structures, marine works, heavy foundations, infrastructure projects, water and sewage treatment plants and railway lines.

<b>Egnatia Motorway Tunnels, GREECE</b>	
<b>Contractor</b>	AKTOR
<b>Client</b>	Greek Ministry of Public Works
<b>Status</b>	Completed
<b>Description</b>	<ul style="list-style-type: none"> <li>▪ 4double carriageway tunnels with a total length of 6.250km and 3 single carriageway tunnels with a total length of 4.655km</li> </ul>

<b>Athens – Patras Motorways, Kakia Skala Tunnels, GREECE</b>	
<b>Contractor</b>	AKTOR
<b>Client</b>	Ministry for the environment, physical planning & public works
<b>Status</b>	Completed
<b>Description</b>	5 tunnels with a total length of 4,400m (including cut & cover sections), equipped with state-of-the-art E/M security and management systems, as well as eight escape tunnels (800m in total).

## Various Projects

### Psyttalia Wastewater Treatment Plant, GREECE

<b>Contractor</b>	AKTOR
<b>Client</b>	Ministry Of Public Works
<b>Status</b>	Completed (2006)
<b>Description</b>	The wastewater treatment plant of Psyttalia, is the final recipient of domestic sewage and pre-treated industrial wastewater of the greater Athens area, with a hydraulic capacity of 27 m <sup>3</sup> /s and treatment capacity of 5.6 million PE.

### Zlatna Panega Cement Plant Upgrade, BULGARIA

<b>Contractor</b>	METKA
<b>Client</b>	TITAN Zlatna Panega Cement
<b>Status</b>	Completed (2006)
<b>Description</b>	<ul style="list-style-type: none"> <li>☐ Mechanical construction and installation of cement mill</li> <li>☐ Mechanical construction and erection of two electrostatic precipitators and reconstruction of a klinker cooler</li> <li>☐ Modification of two electrostatic precipitators to hybrid filters and preheater reconstruction</li> </ul>

### Olympic Athletics Complex of Athens

<b>Contractor</b>	AKTOR ATE
<b>Client</b>	Ministry of Sports and Culture
<b>Status</b>	Completed (2002)

- ☐ Pafos Airport, Cyprus
- ☐ Athens Metro
- ☐ Palais des Sports (Phaliron)
- ☐ Athens Olympic Village
- ☐ Onasis Cardiac Surgery center
- ☐ Iraklion Hospital
- ☐ Arta Hospital
- ☐ Ioannina Hospital
- ☐ Drama Hospital
- ☐ Xanthi Hospital
- ☐ Levadia Hospital
- ☐ Larissa Hospital
- ☐ Alexandroupolis Hospital
- ☐ Serres Hospital
- ☐ West Attica Hospital
- ☐ CONTINENT Super Markets
- ☐ Athens University
- ☐ National Technical University of Athens
- ☐ Thessalia University
- ☐ HENNINGER HELLAS Plant
- ☐ Hellenic Aerospace Industry (H.A.I.)
- ☐ 44 West Bay Residential Tower, Al Waab City, Qatar
- ☐ IKEA Sofia, Bulgaria



## COMPANY PROFILE



# **APPENDIX B**

## **CERTIFICATIONS**

# CERTIFICATE

Management system as per  
**DIN EN ISO 9001 : 2008**

In accordance with TÜV NORD CERT procedures, it is hereby certified that

**ELVAN ABEE**  
20<sup>th</sup> km Lavriou Ave.  
190 02 Paiania  
Hellas



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

**Design, Production and Sales of Cable Trays, Support Systems,  
Lightning Protection Items & Supporting Systems of Photovoltaic  
Panels.**

Certificate Registration No. 44 100 16370035  
Audit Report No. GR-1163/2016

Valid from 2016-04-27  
Valid until 2018-09-14  
(until 2019-04-26 in case of Upgrade to ISO 9001:2015)

*3 Kalala*

Certification Body  
at TÜV NORD CERT GmbH

Athens, 2016-04-27

This certification was conducted in accordance with the TÜV NORD CERT auditing and certification procedures and is subject to regular surveillance audits.

TÜV HELLAS S.A.

282, Mesogeion Ave.

155 62 Athens

[www.tuev-nord-cert.com](http://www.tuev-nord-cert.com)



**DAKKS**

Deutsche  
Akkreditierungsstelle  
D-ZM-12007-01-01



**INSPECTION REPORT**  
**ΕΚΘΕΣΗ ΕΠΙΘΕΩΡΗΣΗΣ**

**TUV-H-CONTRACT No** : 02.05.137  
**TUV-H-ORDER No**

**I.R. No** : 096/05

**Page** : 1 of 2

**Owner** : J & P  
**Κύριος του Έργου**  
IOANNOU & PARASKEVAIDES  
ENERGY & INDUSTRIAL PROJECTS S.A

**Project Engineer** : %  
**Μελετητής Έργου**

**Project** : GREAT MABRUK DEVELOPMENT  
**Έργο**

**Project No.** : %  
**Αριθμός Έργου**

**Contractor** : %  
**Ανάδοχος**

**Contractor's Order No.** : JP-152/A-  
**Αρ. Έργου Αναδόχου** 6403

**Manufacturer** : ELVAN  
**Κατασκευαστής**  
INDUSTRIAL & COMMERCIAL S.A

**Order No. of manufacturer** : %  
**Αρ. Παραγγελίας**  
**Κατασκευαστή**

**Material for inspection** : CABLE LADDERS, TRAYS & ACCESSORIES  
**Υλικά για Επιθεώρηση**

**Subject of inspection** : CONFORMANCE WITH EN-ISO 1461:1999 STANDARD  
**Σκοπός Επιθεώρησης**  
"HOT DIP GALVANIZED COATINGS ON FABRICATED IRON AND STEEL  
ARTICLES – SPECIFICATIONS AND TEST METHODS".

**Inspection activities** :  
**Ελεγχοι κατά την Επιθεώρηση**

- ZINC COATING THICKNESS TEST (MAGNETIC METHOD) ON A RANDOM BASIS
- SHEET THICKNESS MEASUREMENTS ON A RANDOM BASIS
- ADHESION TEST OF COATING WITH CROSS-HATCH METHOD
- VISUAL CHECK OF COATING ON A RANDOM BASIS

**Place of inspection** : ELVAN S.A SITE – PEANIA, GREECE  
**Τόπος Επιθεώρησης**

**Date of inspection** : 08/07/2005  
**Ημερ. Επιθεώρησης**

**Requirements / Specifications** : EN ISO 1461:1999  
**Απαιτήσεις / Προδιαγραφές**

**Items inspected** : All items in attached list except for items 1.24 and 3.5 to 3.12.  
**Αντικείμενο Επιθεώρησης**

**Attachments** : List with items inspected and quantities  
**Επισυναπτόμενα**







**TUV HELLAS**  
Member of RWTUV Group

**INSPECTION REPORT**  
**ΕΚΘΕΣΗ ΕΠΙΘΕΩΡΗΣΗΣ**

**TUV-H-CONTRACT No : 02.05.137**  
**TUV-H-ORDER No**

**I.R. No : 096/05**

**Page : 2 of 2**

**Remarks**  
**Παρατηρήσεις**

1. The items were inspected in the manufacturer's premises.
2. Items 1.24 and 3.5 to 3.12 were not inspected.
3. The minimum number of articles that forms the control sample for each item, is according to EN ISO 1461:1999 and the quantities given in the attached list.
4. ALL INSPECTION ACTIVITIES HAD SATISFACTORY RESULTS

**Inspector** : K. PSARAKIS  
**Επιθεωρητής**

**Date**  
**Ημερομηνία**



# INSPECTION REPORT

REPORT NO. ELVAN 001.2009	CONTRACT 1BD0425A	CLIENT Hellenic Petroleum S.A.	PAGE 1
VENDOR ELVAN S.A.(IT3077)		ORDER NO. Inquiry:IT0099	ORDER DATE
SUB VENDOR		SUB-ORDER NO. Bid number:HPT-9255	SUB-ORDER DATE
ADDRESS FOR ORDER 20 km Athens-Lavriou Ave. PEANIA 190 02 GREECE		INSPECTOR <b>Nikolaos Filippatos</b>	
WORKS LOCATION (Address for inspection) Same as above		DATE OF VISIT DEC 10/2009	
INTERVIEWED			

## REPORT CHECK LIST:

- |   |   |
|---|---|
| 1 - MATERIAL READY FOR TEST/INSPECTION                | 7 - SUMMARY (RELEASE, REJECTION, NON-CONFORMITY)      |
| 2 - APPLICABLE REFERENCE/SPECIFICATIONS/CODS          | 8 - ACTION TO BE TAKEN OR RECOMMENDATION              |
| 3 - INSPECTION AND TESTS WITNESSED                    | 9 - T.P.I. OR STATUTORY INSPECTION AUTHORITY (IF ANY) |
| 4 - RESULTS OF TESTS AND INSPECTION                   | 10 - ATTACHMENTS                                      |
| 5 - CLARIFICATION REVIEWED AND/OR SIGNED              | 11 - PRESENT DELIVERY DATES OF MATERIAL               |
| 6 - TEST EQUIP. CALIBRATION & PERSONNEL QUALIFICATION |   |

## 1.0 MATERIAL READY FOR TEST/INSPECTION:

1.1 Project: Instrument Cable Trays and Fittings

VENDOR  
JOB NO.  
1681-A

CRITICALITY  
RATING (FWI)

## REPORT SUMMARY:

**Material for inspection:** Cable Trays and accessories

**Subject for inspection:** Hot dip galvanized coatings on fabricated steel and iron articles-specifications and test methods.

**Inspection activities:** 1) Zinc coating thickness test on random basis (>70µm) 2) Adhesion test of coating with cross-hatch method (satisfactory results) 3) Visual check of coatings on random basis 4) Review of material certificates, chemical analysis certificates and coating thickness certificates (signed).

**Place of inspection:** ELVAN site, PEANIA GREECE.

**Remarks:** 100% of the order is complete (according to FW list HPT9255 Rev. 0). All the inspection activities had satisfactory results. The sampling frequency for testing for each item was defined in accordance to EN ISO 1461:1999

ISSUED BY

N. Filippatos

DATE OF REPORT

Dec 14, 2009

REVIEWED BY

O. Guerra





FOSTER WHEELER ITALIANA  
20094 CORSICO, MILANO - VIA S CABOTO,1

FAX (039) 2.4486.3118

**INSPECTION REPORT (continuation)**

ORDER NO. 4307003166	CONTRACT	CLIENT Hellenic Petroleum S.A.	Page 2 of 2
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Time:	FWF Specialist:	Copy to Vendor:
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**2.0 APPLICABLE REFERENCE/SPECIFICATIONS/CODES**

**3.0 INSPECTION AND TESTS WITNESSED**

Visual, dimensional, spot witness of cable trays and accessories

**4.0 RESULTS OF TESTS AND INSPECTION**

Satisfactory and accordance with the listed references.

**5.0 CERTIFICATION REVIEWED AND/OR SIGNED**

Review of material. chemical analysis and coating thickness certificates.

**6.0 TEST EQUIPMENT CALIBRATION & PERSONNEL QUALIFICATION**

**7.0 SUMMARY (RELEASE, REJECTION, NON-CONFORMITY)**

The inspected materials have been released for further fabrication.

**8.0 ACTIONS TO BE TAKEN OR RECOMMENDATION**

**9.0 T.P.I. OR STATUTORY INSPECTION AUTHORITY (IF ANY)**

**10.0 ATTACHMENTS**

Photos

**11.0 PRESENT DELIVERY DATES OF MATERIAL :**

After issuance of the Relevant Release Notice (to be issued by FWI).

ISSUED BY

N.Filippatos

DATE OF REPORT

Dec 14, 2009

REVIEWED BY

## Prüfbericht

DMT-31/68

Dokumentennummer:	DMT-DO-31/68
Auftragsnummer:	20642157
Auftraggeber:	ELVAN S.A. Cable Trays and Support Systems 20 Km Lavriou Ave. 19002 PEANIA ATHENS Griechenland
Auftrag vom:	05.02.2014
Inhalt des Auftrags:	Brandtechnische Prüfung einer Kabelanlage mit integriertem Funktionserhalt (E 90) nach DIN 4102-12:1998-11
Prüfungsgrundlage:	DIN 4102-12:1998-11
Probeneingang:	10.02.2014
Prüftermin:	19.02.2014
Geltungsdauer bis:	19.02.2019



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