



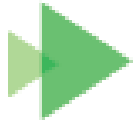
# CERTIFICATIONS

- **UNI EN ISO 9001:2008** – Quality Management System
- **UNI EN ISO 14001:2004** – Environment Management System
- **BS OHSAS 18001:2007** – Safety Management System
- **SA 8000:2008** - Social Accountability
- **UNI CEI 11352:2010** – Energy Service Companies
- **UNI CEI EN ISO 13485:2012** – Medical Device Quality Management System

Prima Vera is also certified for security and confidential:

- **N.O.S.** (Security Clearance) Highest level - NATO EU.

# BUSINESS UNITS



## ENERGY

Every day the comfort of millions of environmental cubic meters is guaranteed by the work of the company's Energy Managers. Prima Vera can offer the market efficient projects for the refurbishment of technological systems, the implementation of new cogeneration and trigeneration systems and the use of renewable sources of energy.

# BUSINESS UNITS



## BIOMEDICAL

Another sector is the Biomedical Division, a nice market which requires specific competences, efficient strategies and high standards of quality. From the small medical centre to the large hospital, the company today checks the technologically advanced devices and instruments.

# BUSINESS UNITS







## **FACILITY MANAGEMENT**

Prima Vera stands out in Facility Management this field of targeted action, by the quality of the services offered to public administration and health with the integrated management of services supporting the Client's primary activities. In particular, plant management, property management, gardening, cleaning, video-surveillance, reception, security etc. are some of the services by which Prima Vera completes its offer for the market.







## **PUBLIC LIGHTING**

Prima Vera deals with the whole supply chain of this service on a «turnkey basis», from the purchase of electric energy to running the plants, from energy streamlining to statutory compliance and the ordinary and extraordinary maintenance of lighting systems.

# Energy Efficiency project - Structure

-  **Choosing technical engineers**
-  **Detailed Audit**
-  **Proposal and discussion with client**
-  **Measurement & Verification plan**
-  **Suppliers and new technologies – final choice**
-  **Implementation of Measurement & Verification plan**

# Energy Efficiency project - Structure

-  Implementation of ECMs
-  Training
-  Maintenance
-  Measurement
-  Reports and on-going relationship with client (\$\$\$)
-  Awareness

# San Carlo Hospital

A typical energy efficiency project carried out by Prima Vera, is the one just completed in the S. Carlo medical center in Milano and with 526 beds consuming 350,000 mc, and 4,5720,818 kWh per year.

Prima Vera totally changed the heating systems, in which a number of boilers produced overheated water and then steam, with old machinery using diesel oil. Besides, VAC system used old chillers using gas.

The main ECMs implemented by Prima Vera were the following

- Installation of 2 new steam boilers + 2 new hot water boilers that delivered water at required temperature according to the needs of the different buildings
- Installation of a cogeneration engine, producing electricity from exhaust fumes
- Demolition of the old fuel tanks to install machinery as per point a) and b)
- Installation of new electric chillers
- Installation of heat pumps.
- The expected energy saving is over 15% compared to the present consumption.

# Energy Efficiency projects

## Prima Vera

- ❑ Installs innovative technologies, such as Tadiran's HLR an innovative self-cleaning and highly durable carbon active filter to be installed on the Air Handling Units that reduces the quantity of fresh air to be cooled. Another example is a system connected to the transformers that adjusts and stabilizes the input voltage and damps the active voltage.
- ❑ Exploits and reuses at the most the energy generated, by selecting technologies such as cogeneration engines
- ❑ Implements significant changes in the energy rooms without affecting the services delivered to the end clients,
- ❑ Defines and often directly runs well specified maintenance plans,
- ❑ Carries out extensive training activities and innovative awareness campaigns,
- ❑ **Works always in strong co-operation with the premises owners**, striving to create a relationship based on mutual understanding and total disclosure of activities carried out



# San Carlo Hospital



# San Carlo Hospital



# Ministry of Health - Israel

Medical Center	Energy Consumption and Costs								Total Costs
	Fuel Oil		LPG		Diesel		Electricity		
	Fuel Oil (tonnes)	NIS	LPG (tonnes)	NIS	Diesel (1000lt)	NIS	Electricity (1000KWH)	NIS	
Wolfson Medical Center	0	0	0	0	993.30	5,427,071	18,071.70	7,106,913	12,533,984
Poria Medical Center	0	0	0	0	471	2,000,000	90,006	3,500,000	5,500,000
Rambam Medical Center	0	0	0	0	1,037	6,428,551	36,217	14,000,000	20,428,551
Sheba Medical Center at Tel Hashomer	0	0	2,550	8,200,000	450	2,000,000	85,000	40,000,000	50,200,000
Barzilai Medical Center	0	0	539.10	3,191,000	658.70	3,576,561	13,999	4,735,745	11,503,306

General Information				Total Per Cluster		
Medical Center	City	Built area (1000 m <sup>2</sup> )	Num. of buildings	Total Energy Costs Including V.A.T	Built Area (1000 m <sup>2</sup> )	Num. of Buildings
Tel Aviv Sourasky Medical Center (Ichilov)	Tel Aviv	198	18	<b>73,865,529</b>	<b>607</b>	<b>207</b>
Assaf Harofeh Medical Center	Rishon LeZion	137	125			
Bnai Zion Medical Center	Haifa	48	6			
Hillel Yaffe Medical Center	Hadera	57	40			
Ziv Medical Center	Tzfat	44	5			
Hospital for the Western Galilee (Medical Center)	Naharia	123	13			

# Ministry of Health - Israel

- ❑ Created TPV a 50-50% JV with Tadiran Group
- ❑ Award received on November 2014 (final contracts still to be received)
  
- ❑ Investments (some 20M€ expected) in ECMs cover all the energy systems:
  - HVAC systems, with the replacement of old boilers and chillers with new ones, with the AHU filters and economizer installations, changes of the fuels in use (from heavy oil or diesel to LPG or methane), installation of heat pumps and alike, new technologies like Tadiran's HLR an innovative self-cleaning and highly durable carbon active filter to be installed on the Air Handling Units
  - lighting system, with the upgrading of the old T8 fixtures and old G24 lamps with LED fixtures
  - compressors, for which specific maintenance programs were prepared
  - electricity, with the installation of system aimed at adjusting and stabilizing the input voltage and dampening the active voltage
  - steam and water pipes, whose insulation is revamped.

# Ministry of Health - Israel

- Contract length: 17 years
- M&V plan to be submitted to the Canadian consultant Econoler
- No operative maintenance
- Psychiatric and geriatric structures to be integrated
- Further activities expected in cogeneration
- Relationship with MoH and single MCs: the key