

Bernard Griga

Profile Mr. Griga has over 25 years of energy engineering experience in the USA, England, Germany and Greece. He has undertaken energy efficiency studies, audits and related design projects for Pharmaceutical plants, office and research campuses and data centers. He also has extensive experience in reliability studies, commissioning and trouble shooting of building services systems.

Professional Experience	1998 - Present	PWI Energy, Inc.	Philadelphia, PA
	Senior Energy Engineer		
	<ul style="list-style-type: none">➤ Responsibilities include the development and implementation of demand side sustainable energy efficiency surveys and evaluations for various types of buildings and processes.➤ Was team leader for over 60 energy surveys for pharmaceutical and industrial facilities worldwide including UK, Ireland, France, Belgium, China, Italy, Singapore, Phillipines and the USA.➤ Also undertaken energy and sustainable design reviews for new building designs in an effort to incorporate sustainable features in building designs using national and international energy standards and BREEM and LEED sustainable analysis tools.		
	1993 – 1998	Kling Lindquist, Inc.	Philadelphia, PA
	Senior Project Engineer		
<ul style="list-style-type: none">➤ Was responsible for the analysis and design of major mechanical and HVAC systems including a 3,000,000 SF corporate office campus in New Jersey, which included a state-of-the-art 3,000 ton ice storage system, a low temperature air distribution system, and a 10,000 ton central campus chilled water system distributing chilled water to 26 buildings, utilizing a unique 8 miles of HDPE underground piping system.➤ Was a member of the steering committee for sustainable design and the development of a company-wide energy intranet.			
1988 – 1993	Dupont Chemicals	Newark, DE	
Senior Project Engineer			
<ul style="list-style-type: none">➤ Was responsible for the design and development of mechanical systems supporting manufacturing and research development facilities locate throughout the USA.➤ Was team leader for the Environmental Initiative that sought to reduce the environmental impact of various projects and facilities.➤ Was also the team leader for a large utility upgrade, which included steam driven turbine supporting a screw brine chiller.			
1986 – 1988	Kling Lindquist, Inc.	Philadelphia, PA	
Senior Project Engineer			
<ul style="list-style-type: none">➤ Was responsible for reliability reviews of major data centers throughout the USA and subsequent design of reliability improvement projects.➤ Undertook energy surveys of government (IRS) and research buildings (GE).			
1981 – 1986	Energy Resource Group	Philadelphia, PA	
Principal Engineer			
<ul style="list-style-type: none">➤ Was responsible for energy surveys for hospitals, municipal and institutional buildings, and subsequent energy efficiency improvement design projects.➤ Participated in the Institutional Grants Program and was successful in obtaining energy improvement grants for hospitals and educational buildings.			

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1979 – 1981 Energy Management Services Philadelphia, PA

Standards Engineer

- Was responsible for the development of analysis methodologies for evaluation of energy conservation projects.
- Trained engineers in energy survey techniques for large buildings and processes.
- Undertook energy surveys for many hospitals in Philadelphia and Cleveland as part of a Blue Cross Energy Initiative.

Prior to 1979 Various Companies Europe

Project Engineer

- Following graduation, participated in and led teams for the design of HVAC systems for many projects including a large teaching hospital in England, a pharmaceutical manufacturing complex in Germany, and a military cantonment in Saudi Arabia.
- During this time, also wrote a technical paper on the application of the enthalpy heat recovery wheel in hospital ventilation systems.
- In addition, participated in the commissioning of HVAC systems for a pharmaceutical manufacturing building in England.

Education 1969 University of the South Bank London, England

Diploma in Internal Environmental engineering (BSME equivalent)

Professional Organizations

- ◆ American Society of Heating, Refrigerating and Air Conditioning Engineers (ASHRAE)
- ◆ Chartered Institution of Building Services Engineers (UK)
- ◆ Association of Energy Engineers