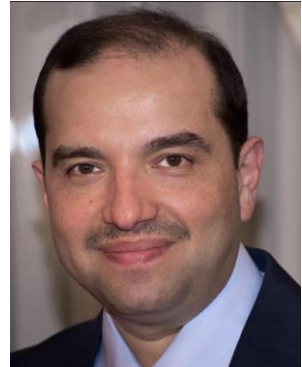


AEE Lebanon Chapter in Development

What is the Association of Energy Engineers (AEE), what does it offer, and what values can it bring to the Lebanese energy sector?
How do we join the AEE Lebanon Chapter in Development?

Expert Name: Osman Adra

President, Mechanical Engineer



Short Profile: Eng. Osman Adra is a mechanical engineer, an educator, an entrepreneur, and a trained expert in the fields of Green Buildings, Energy Efficiency and Renewable Energy. He has a track record of fourteen years of college teaching experience, and an exceptional MEP contracting and business career extending over quarter of a century in Lebanon, UAE and KSA.

Eng. Adra is an expert in the fields of HVAC and MEP services, the founder of Intercool SCS Company, a leading MEP contracting company specialized in energy efficient and innovative HVAC solutions, and Intercool Energy Services Company with interests in Lebanon and the UAE.

In addition, Eng. Adra is a registered Green Entrepreneurship Trainer with the SwitchMED program (switchmed.eu). He is certified by the Association of Energy Engineers (AEE) (aeecenter.org) as Certified Energy Manager (CEM®) and Certified Measurement & Verification Professional (CMVP®).

Eng. Adra currently occupies the post of Interim President of the AEE Lebanon Chapter (under development), and a board member of the Lebanon Green Building Council. He is also the producer of the annual GreenWeek® event in Lebanon, organized jointly between the LGBC and the Order of Engineers & Architects (OEA).

Expert Name: Ziad Haddad

Vice-President, Mechanical Engineer

AEE Lebanon Chapter in Development



Short Profile: Holding a Masters in Mechanical Engineering and an MBA in enterprise management, Mr. Haddad is also a Certified Energy Manager from the American Association of Energy Engineers and a LEED Green Associate. He started his career in 1997 as a consulting engineer, then in 2005 he worked abroad on developing BOT projects in the water & wastewater industry.

Following his passion for green engineering, he co-founded OPUS consulting engineers in 2007, offering sustainable electro-mechanical consulting services to the building industry and 2 years later, co-founded OPUS energy, specialized in energy audits, energy efficiency & renewables. Mr. Haddad has served on the board of the Lebanon Green Building Council from 2010 till 2016, as board member and then as Vice-President. In 2014, he joined the Lebanese American University as the Director of Physical Plant, heading the Design, O&M, Safety, Sustainability and Work Control units. Recently, he joined hands with colleagues in the energy conservation field to create the Lebanese Chapter of the Association of Energy Engineers and is serving as interim Vice-President. Mr. Haddad has presented several papers on environmentally responsive building services designs and lectured on high performance green buildings.



Definition / Benefits	Constraints / Challenges / Barriers
<ul style="list-style-type: none"> ✓ Certification ✓ Recognition / international/ professional practice ✓ Joining an association that can have A+ image on the energy sector in Lebanon ✓ Accreditation within companies ✓ Knowledge acquiring ✓ Sharing experiences / know-how ✓ Structures education ✓ For local preserve, facilitating availability of certification ✓ Importance of having an energy engineer in particular institutions 	<ul style="list-style-type: none"> ✓ Coordination with other entities ✓ Mentality/ difficulty of investment in energy engineers ✓ Certification is not required in Lebanon yet ✓ 5 days dedication for CEM certification
Best Practice / Solutions / Tools	Resources / local Availability