#	**Ioannis Argyriou** -PhD student in Technical University of Crete -MSc in Environmental Engineering-Water Resources and Climate Change -Degree in Physics	
Title:	**Technical University of Crete**	
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Presentation title:	**Environmental management systems for ports. Green initiatives for improving sustainability**	

Ports are, by nature, energy intensive facilities, thus are also associated with elevated environmental footprint. For this reason, the European Union has introduced a number of conventions, regulations and guidelines to reduce their total greenhouse gas (GHG) emissions and promote sustainable operation and expansion practices. Port environmental footprint depends on several factors including size, type of activity, traffic volume as well as their geographic location. Motivated by the recent global financial crisis, the volatile prices of conventional fossil fuels and the need to reduce GHG emissions, research has been focused towards "green" or sustainable ports. In green ports the three pillars of sustainability, namely economic, environmental and social, are combined and therefore social and financial development is achieved with minimal environmental impact. In this sense, a balance between environmental impacts and financial gain is maintained. Therefore, reducing the environmental impacts of port facilities has been brought forward by policy and decision makers, with the efficient and sustainable management of their energy needs being a key component towards this end. Nonetheless, developing a framework for sustainable port activities and environmental protection is challenging. Up to now, a small number of ports internationally have achieved to sustainably manage their energy needs and reduce their overall environmental footprint, which is not the norm in Greece. Middle and small size ports in Greece face many common problems, but no steps have been taken to improve energy safety and efficiency and reduce GHG emissions. This work comprehensively examines routes for implementing sustainable energy management in port facilities, using environmental management systems (EMS).

CV:

- 2018: PhD student
  Scientific field: Renewable energy sources in ports
- 2015-2017: MSc in Environmental Engineering-Water Resources and Climate Change
  Field of postgraduate dissertation: Modeling of marine pollution sources
- 1994-1999: Degree in Physics
  Scope of diplomatic work: Magnetic resolution images (MRI) scanner

2001-2014: I joined the Hellenic Naval Academy (Coast Guard Officers' Cadet School) and in 2002 I was sworn in as Ensign of the Hellenic Coast Guard. During my career in the Hellenic Coast Guard I have served in a number of local Port Authorities:

- Port authority of the island of Milos, as Harbor Master (2009-2012)

- Central port authority of Chania Crete, as Deputy Commander and Commander of Port Police (2003-2007) and Assistant Harbor Master (2013)

- Port Authority of Souda Bay as assistant Harbor Master (2007)

Moreover I have served in the Merchant Naval Academy in Crete (2008)

2014-2018: Since April 2014 I have been serving at NATO Maritime Interdiction Operational Training Center (NMIOTC) as Staff Officer of Educational and Training Directorate. During my career at NMIOTC I was an officer of primary responsibility for the conduction of training events by the International Maritime Organization (IMO), US/Drug Enforcement Agency (US/DEA), East Africa Standby Force (EASF), European Defense Agency (EDA), EUNAVFOR MED/Operation Sophia. Moreover I coordinate the training for various groups from NATO state members and other affiliated countries.

CT knowledge

- «European Computer Driving License (ECDL) »
- Windows XP/98/95/2000, Microsoft Office
- ArcMap, Argus ONE, GNOME, ADIOS, MINEQL, HEC RAS, HEC HMS, SPSS

Languages

- English Excellent (Certificate in ESOL International-NOCN level 3