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طاقة الشمال

North Lebanon Alternative Power
www.nlap-lb.com



Discipline
Energetic physics

Master project proposal

Laboratory name: AECENAR

Laboratory website: <http://www.aecenar.com>

Supervisors (contact persons)

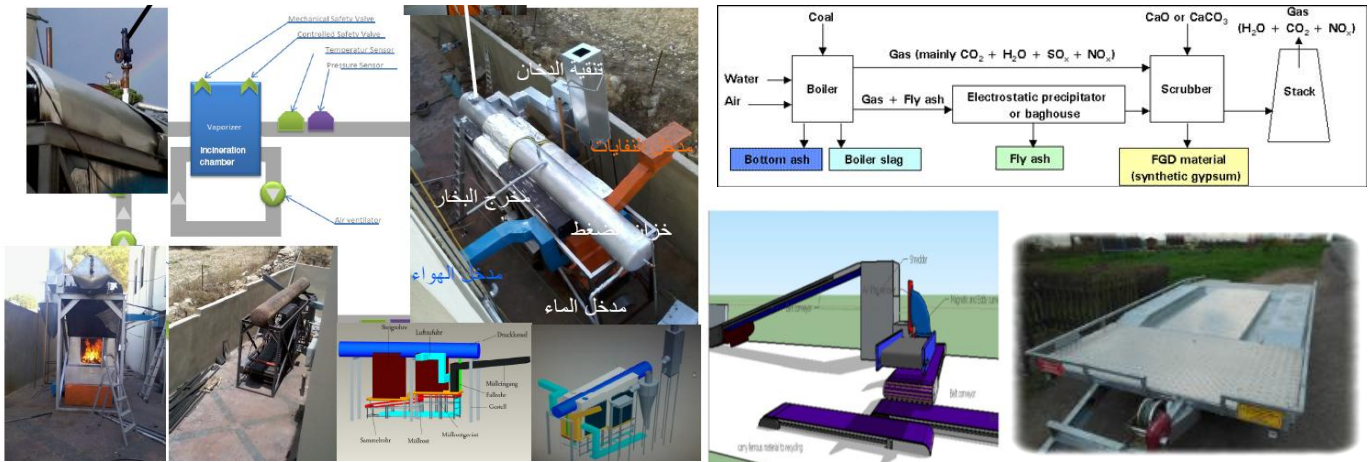
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Ras Nhache, 16.2.2016

Subject of the thesis

Thesis title: Completing of integration (adding of waste inlet/outlet, flue gas purification and correcting incineration bed) and testing of TEMO-IPP incineration power plant on mobile platform.

Abstract: Actually the incinerator power plant (TEMO-IPP), which can produce 40 KW of electricity is situated in Ras Nhache-Tripoli. Modeling a mobile platform for the transfer of the station with all its parts, including the main entrance of the waste, the turbine, the piston and finally the flue gas filters will make this plant available for using in any region.



Working packages:

- Reading and searching about the subject (2 Weeks) (<http://www.aecenar.com/publications>)
 - Detailed design for the entrance and exit of waste (2 Weeks).
 - Study for the environmental effect (1 weeks).
 - Detailed design for filters and chemical emissions processing (4 Weeks).
 - Detailed design for the mobile platform and integration on platform (2 Weeks)
 - Operation of the plant and testing of the emmissions (4 weeks)
 - Documentation (4 Weeks)
- (the duration of packages is only approximately)

Key words: alternative energy, incineration power plant, waste handling, flue gas purification, FreeCAD, environmental impact.