

Economic Environmental Study at Energy field (Case study: Adra Plant for Cement and Construction Materials Manufacturing)

Nada Joma'a¹

Dr. George Zahr²

Abstract

Well-being of population does not only correspond to creation of wealth but also to conservation of natural resources. In certain cases, economic activities create more economic damages than value added; thus diminishing well-being and quality of the environment^[1]. The importance of this research is to focus on to economic environmental feasibility Study of (caloric and electricity) energy's efficiency at Adra cement plant (as case study) by delimiting:

*Costs of Inefficiencies in energy (CI): ► economic impacts.

*How much of the value added (VA) is lost due to the inefficient use of energy?

*Costs of Remediation (CR):► energy protection measures (How much does it cost to decrease the inefficient use of energy so that the damages (economic losses) vanish? So that damages become benefits?).

*CI/CR Ratio:► $CI/CR = \text{Benefits}/\text{Costs} = B/C$. (How much damages (CI) are avoided by investing 1 SYP in remediation (CR)?).

*How much of the emission of gases is decreased due to the efficient use of energy?

Keywords: value added, cost of environmental degradation, Inefficiency, remediation, Benefits / Costs.

For the abstract in Arabic see pages (73-55).

¹ Environmental Department in Civil Engineering Faculty Damascus University.

² Environmental. Department in Civil Engineering Faculty, Damascus University.

References:

- 1- Daguët,S.,Maradan,D.,Matton,F.,(2008).
Theoretical and Practical Guide Book of
MESO Analysis.ecosys,Geneve.
- 2- Maradan,D.,(2008).Meso–Economic Analysis:
Methodological Guide. Ecosys, Geneve.
- 3- Framing national strategy report of
sustainable development in Syria 2010,
Ministry of state for environment affairs.
- 4- Generality budget and final accounts of
finance cycle 2008- Adra company for
cement and construction industry.
- 5- Productive report of Adra company for
cement and construction industry 2008-
directorate of production.
- 6- General report of Adra company for cement
and construction industry 2008 for
exploitation's plan -count and projection
directorate.
- 7- Austrian advisory study for upgrading 3th line
in adra (2).
- 8- Contract for change the dragging duct of hot
gases with corporation of militarism
construction- industrial part , 30/1/2003-
commercial directorate -Adra company for
cement and construction industry .
- 9- Contract for import the intermediate screen
of cement mill in the first line, 22/6/2009-
commercial directorate -Adra company for
cement and construction industry .
- 10- Contract for upgrading the feeding system
of cement mills in Adra (1),30/4/2002-
commercial directorate -Adra company for
cement and construction industry.
- 11- List of equipments and installations that
have been imported by Adra cement
company and are founding in company now
for upgrading and not compound and it's
singular and total values – contract in
3/12/2009- commercial directorate -Adra
company for cement and construction
industry.
- 12- Alnish,N.,(1999),environmental
degradation costs and natural resources
scarcity: between theory and application in
Arab countries. Arab academe for
projection, Kuwait.
- 13- <http://www.globeline.ro:air> pollutants of
cement plants and it's treatment methods.