

Assessment of a Steel Plant to Evaluate Possibilities to Avoid Hazardous EAF Dust.

UNITED STEEL INDUSTRIAL CO.¹ AND KUWAIT FOUNDATION FOR ADVANCEMENT OF SCIENCES²

¹United Steel Industrial Co.

²Innovation and Enterprise Directorate, Kuwait Foundation for Advancement of Sciences

ABOUT THE PROJECT:

The main problem of United Steel Industrial Company was the disposal of the Electric Arc Furnace (EAF) dust generated in the steel making plant. This resulted in additional or excess of costs the company wanted to minimize. The Fraunhofer Institute found a solution to generate revenue from the EAF dust instead of paying for disposal. The idea was to recycle this material in the furnace with a special system, which results in smaller generated quantity and with high percentage of Zinc that can be sold.

1. A BRIEF DESCRIPTION ABOUT THE COMPANY

United Steel Industrial Company (Kuwait Steel) is a private Kuwaiti Closed Shareholding Industrial and Commercial Joint Venture Company that was established in the year 1996 through a joint partnership between Kuwaiti investors and ASCOTEC of Germany. The company has three plants and produces around one million tons/year of reinforcing rebars.

2. WHAT WAS THE PROBLEM YOU WERE TRYING TO SOLVE?

The disposal of EAF dust generated in the steel-making plant. This disposal has incurred additional costs on the company.

3. HOW DID KFAS HELP YOU WITH YOUR PROJECT?

KFAS through its experience and connections worldwide, have helped in finding experts in the field for the project. The experts are from Fraunhofer Institute, Germany. KFAS has also helped in arranging meetings with them and has provided co-funding and support for the project.

4. WHAT WAS THE SCIENCE, TECHNOLOGY AND INNOVATION SOLUTION?

KFAS has collaborated with Kuwait Steel and Fraunhofer Institute on the project to help the company with environmental solutions as well as increase in profitability.

5. HOW DID YOU FIND ABOUT KFAS AND THE CO-FUNDING PROGRAM

Through the KFAS website.

6. WOULD YOU RECOMMEND KFAS PROGRAMS TO OTHER COMPANIES?

- Yes
 No

7. WOULD YOU LIKE TO REAPPLY TO A KFAS PROGRAM?

- Yes
 No

FUNDING INFORMATION

This project was co-funded by the Innovation & Enterprise Directorate, Kuwait Foundation for Advancement of Sciences to support in-house R&D for the development of Science, Technology and Innovation in United Steel Industrial Co.

CONTACT INFORMATION

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