



Project information

Title: Determination of Industrial Emissions Strategy of Turkey in Accordance with Integrated Pollution Prevention and Control (DIES) EuropeAid/139596/IH/SER/TR

Beneficiary: Republic of Turkey Ministry of Environment and Urbanization (MoEU) - Directorate General of Environmental Management

Target Groups: MoEU and Companies subjected to Industrial Emission Directive (IED)

Consortium Partners: **Leader - Hulla & Co Human Dynamics GmbH & Co KG (Human Dynamics)** Ekodenge Engineering Architecture Consultancy Trading Inc. (EKODENGE) Vlaamse Instelling voor Technologisch Onderzoek (VITO) Institut National de l'Environnement Industriel et des Risques (INERIS) Çinar Engineering Consultancy Inc. (ÇINAR)

Duration of the Project: 36 months

Starting Date: 03.07.2020

Estimated End Date: 02.07.2023

Project Budget: € 3,758,000

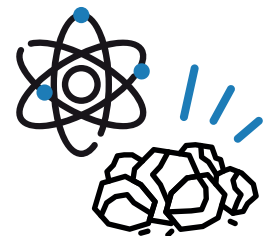
Overall Objective

Protection of human health and the environment with industrial pollution management in line with the IPPC approach

Purpose

Increase the technical and institutional capacity of the competent authorities for harmonious implementation of IPPC approach in Turkey in line with the IED

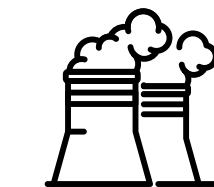
DIES in numbers



More than **100** sub-sectors and processes to be studied under chemical and mineral industries



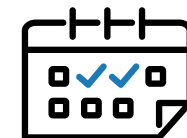
Translation and revision of more than **45** BREFs and BAT Conclusion documents



Field studies to at least **220** facilities



4 training programmes



More than **30** events (workshops, seminars, internship symposium, training camps)

3 instructive videos of IPPC approach



Get involved

Contracting Authority

Republic of Turkey Ministry of Environment and Urbanization - Directorate General of European Union and Foreign Affairs

Beneficiary

Republic of Turkey Ministry of Environment and Urbanization - Directorate General of Environmental Management

Consultant

Consortium led by Hulla & Co Human Dynamics GmbH & Co KG
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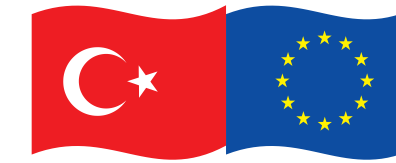
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DETERMINATION OF INDUSTRIAL EMISSIONS STRATEGY OF TURKEY IN ACCORDANCE WITH INTEGRATED POLLUTION PREVENTION AND CONTROL



Key concepts

IPPC: It means an integrated approach developed to minimize the pollution from various industrial sources determined by the Integrated Pollution Prevention and Control Directive (2008/1/EC). The Directive consists of an integrated environmental permit system that takes into account all environmental performance, including emissions to air, water and soil pollution, waste generation, raw material use, energy efficiency, noise, prevention of accidents, and field improvement of industrial and agricultural activities with high pollution potential, in case of termination of operation. With the amendments made in 2010, the IPPC Directive is included in the 1st and 2nd Chapters of the 2010/75/EU Industrial Emissions Directive.

IED: The Industrial Emissions Directive (IED-2010/75/EU) has been published by the EU, with the reformulation of 7 different directives, including the IPPC Directive. It aims to protect human health at a high level and the environment in a holistic manner by reducing harmful industrial emissions throughout the IED. The IED is designed to assess the overall environmental performance of a facility by

For adaptation of IPPC to national legislation of Turkey, Ministry of Environment and Urbanization has been implementing IPPC Projects.

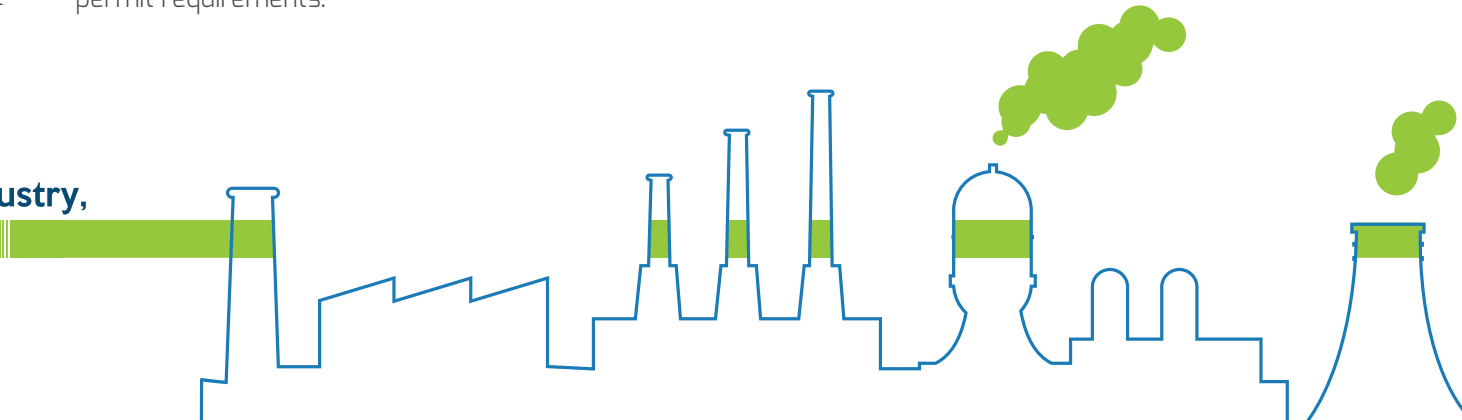
determining the integrated environmental permit requirements based on the best available techniques (BATs) and associated emission levels with BAT (BAT-AEL). The Directive is applied for 6 industrial categories including energy production, metal production and processing, mineral, chemical, waste management and livestock sectors.

BAT (Best Available Techniques): BAT includes the most effective, advanced and applicable techniques that can provide a basis for the prevention of the impacts of the emissions on the environment as a whole, in cases where this is not possible, the emission limit values determined in order to minimize the impact and integrated environmental permit requirements.

BREF (BAT Reference Documents): Taking into account the criteria in the Annex III list for the activities included in the Directive Annex-I, this document includes sectorally prepared and applied techniques, current emissions, reduction levels, criterias considered for the determination of BATs, BAT Conclusion documents and developing techniques.

BAT Conclusion Documents: BAT Conclusion document is a document covering the parts of a BREF laying down the conclusions of BATs, definitions, necessary information to assess the applicability of BAT, BAT-AELs, monitoring, reduction levels and remediation measures where field improvement is applied.

Cleaner production, sustainable industry, empowering Turkey



Key messages

For governmental bodies

- Raising awareness on integrated pollution prevention and control and cleaner production approach in improving environmental quality

- Guidance of National Action Plan (NAP) for IPPC implementation in Turkey

- Increasing awareness by determining the compliance costs of the integrated pollution prevention and control approach for industrial activities

- Contribution to industrial emission reduction in Turkey

- Developing an easy, effective and applicable software with IPPC approach.

For industry

- Improving cooperation between the public and industry

- Opportunity to take an active role in the preparation of the National Action Plan on IPPC

- Determining the right steps in environmental investment planning within the framework of the legislation

- Saving in the use of raw materials, energy and water with waste treatment and disposal costs in the industry

- Access to more efficient manufacturing processes

- Improvement in the scope of developing products, services, worker's health and safety and company image

- Informing the Non-governmental Organizations (NGOs) related to industry about the IPPC approach since they will continue to touch base with the industrialists after the Project is completed

- Providing access to new export markets and gaining economic gain with IPPC investments in the medium and long term

Result 1 Developed technical capacity and substructure for the implementation of IPPC approach

Conducting revised inventory of IED installations in Turkey

Preparation of draft IPPC Legislation

Preparation of methodology reports and BAT Checklists for both mineral and chemical industry

Preparation of a National Action Plan (NAP), which includes action plans for all environmental components (air, water, soil, noise, waste, etc.) and includes a sectoral transition schedule

Determination of the overall cost required for the implementation of IED

Determining the basis of sectoral and regional principles, emission values and general binding rules

Development of new software for IPPC implementation

Preparation of sectoral guidelines of BREFs, REF, and BAT Conclusions

Revision of the Website and creation of the IEDPedia

Organization of workshops and field studies and setting up an assistance desk

Increasing the capacity of MoEU to implement IPPC in Turkey

Organization of training programs for MoEU and related stakeholders, dissemination workshops and awareness seminars, study visits and international symposium, and preparation of visual and written documents (videos, brochures, booklets, etc.)

Organization of internship programme

Result 2

Developed institutional capacity and increased awareness