

ENERGY SECTOR COOPERATION BETWEEN DENMARK & TURKEY

Annual report for 2019

Danish Authorities in International Cooperation

7 AFFORDABLE AND CLEAN ENERGY



9 INDUSTRY, INNOVATION AND INFRASTRUCTURE



11 SUSTAINABLE CITIES AND COMMUNITIES

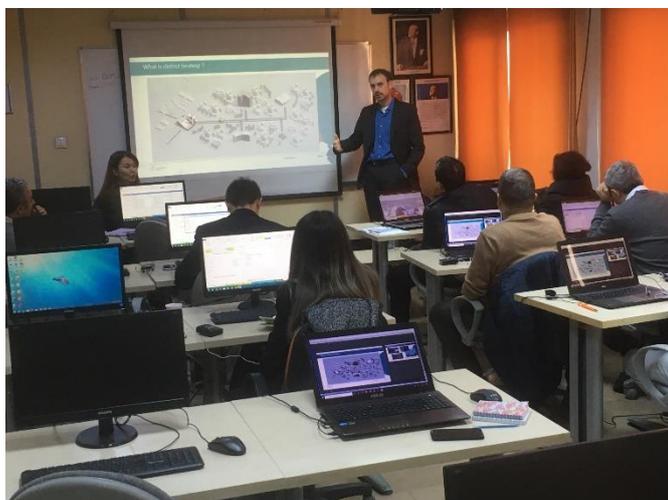


Photo: SSC District heating train-the-trainers course, Ankara, 3-4 Dec 2019
Source: SSC Heating & Cooling Project Management Team

Project description

The energy main project between Denmark and Turkey was signed in early 2017 with the Turkish Ministry of Energy and Natural Resources (MENR). The title of the Phase I of the project was **Efficient and Low Carbon Heating and Cooling**, and indicated its focus, which was on district heating (DH) and cooling (DC). In 2018, the project was expanded to also include a track focussed on offshore wind (OSW) - **Roadmap for Offshore Wind Development in Turkey** - for which a shortened main project was started in early 2019. Very early in 2019 it was decided by all involved project partners in the two tracks to apply Ministry of Foreign Affairs to apply for an extension of the project with a Phase two starting early 2020 and running until the end of 2022.

The overall objectives for both tracks in the energy project are centred on assisting MENR with developing relevant policies, strategies and solutions to enable a low carbon transition of Turkey's energy sector and at the same time achieving its long-term goals for energy efficiency and domestic sustainable energy production. Besides, increasing the capacity of implementation of relevant framework conditions, including new legislation and regulation.

During 2019, which marked the end of Phase one, these were the focus areas:

Heating & Cooling

- Heating and cooling mapping
- Gap analysis of current regulation
- Cost-benefit analysis of generic model cases
- Sharing of Danish and international experiences
- Drafting Heat Market Law
- Increase capacity in DH and DC regulation and implementation

- Pre-feasibility study on a concrete project
- Initiating detailed regulation.

Offshore Wind

- Maritime spatial planning
- Framework conditions for OSW tendering procedures.

The background for MENR and the Turkish government being interested in cooperation on the above-mentioned areas is very clear. Turkey wish to decrease its very high dependency on imported fossil fuels by both increasing the volume of domestically produced energy – preferably with a high degree of renewable energy sources – and improved energy efficiency measures. The two tracks in this project contribute to these political priorities.

Key activities in year 2019

During 2019, the following activities should be highlighted within the two tracks:

Heating & Cooling

- Increasing capacity among MENR experts in carrying out technical and economic analysis dealing with the economic viability of DH.
- Assistance provided related to the drafted legislation on the heat market and looking at areas future detailed regulation could focus on.
- Successful train-the-trainers course was held on technical, economic and legal DH aspects for selected public stakeholders.
- Regular coordination and support with TC in Istanbul by the Sector Counsellor in connection with initiatives and individual export promotion cases.

Offshore Wind

- Workshop on maritime spatial planning and site selection procedures for OSW.
- Technical workshop on wind resource assessments gathering institutions and universities in Turkey.
- Initiated data mapping and GIS exercise for OSW.
- Carried out comparison and economic ranking of potential sites for OSW farms.
- Capacity building activities for MENR experts including technical course on OSW development, attending market dialogue for the upcoming OSW tender in Denmark - Thor OSW farm.

Main achievements and lessons learned in 2019

The start-up of the new OSW track was enabled due to the successful track record since 2015/2017 within heating & cooling. Furthermore, it was evident that the effect of SSC projects only will be visible and sustainable when the projects are built on the foundation of a long-term and open cooperation.

Status: Main SSC project (Phase one) under implementation

Project period: April 2017 to December 2019

Partners: Danish Energy Agency (DEA) and Turkish Ministry of Energy and Natural Resources (MENR)

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