

# ENERGY SECTOR COOPERATION BETWEEN INDIA AND DENMARK (2018-2021)

Annual report for 2019



Picture: 2nd successful workshop on Financial modelling of Offshore Wind in India. Co-hosted by Indian and Danish authorities

## Indo-Danish Strategic Sector Cooperation on Offshore Wind Energy

The three-year SSC project is a partnership between the Danish Energy Agency and the Indian Ministry of New and Renewable Energy (MNRE) with the objective of supporting the Indian government efforts to develop the offshore wind sector in India. The main focus areas in the project are:

- Knowledge exchange on offshore wind spatial planning, screening process and site identification
- De-risking processes for offshore wind development, including lessons learned from the Danish one-stop-shop model for offshore wind
- Offshore wind tendering process through a combined series of integrated activities
- Technical inputs to support the development of an offshore wind roadmap

### “Denmark has the skills, India has the scale”

The above statement was made by the Indian Prime Minister Narendra Modi during a meeting in India with the Danish Prime Minister on January 18, 2019. In the case of cooperation in the renewable energy sector, India and Denmark are indeed natural partners.

*Status: Project under full implementation – start of Phase I.*

*Partners: Ministry of New and Renewable Energy, National Institute for Wind Energy, Solar Corporation of India*

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India has emerged as a leading nation in the global efforts to mitigate climate change and has some of the most ambitious plans supporting the achievement of SDG 7, which includes achieving 40 percent electricity generation under the Paris Agreement from 2015. To achieve this transition to renewable energy MNRE has set a target to reach 175 GW capacity by 2022 – mostly from solar (100 GW) and onshore wind (60 GW). But as the Prime Minister has announced the ambition to reach 450 GW of renewable energy capacity India is keen on adding new technologies such as offshore wind to its renewable energy mix.

The Danish Energy Agency has 30 years of experience developing the sector (i.e. Denmark has the skills) and the Indian government is keen on initiating the sector in India (i.e. India has the scale). The Indian target is to reach a capacity of 5 GW by 2022 and 30 GW by 2030. Denmark’s world-leading experience and India’s huge targets make the offshore wind sector a great platform for a strong government partnership.

## Key activities in 2019

Initiated “Financial modelling of offshore wind in India” (FIMO) which aims to involve government, commercial, and research stakeholders in a dialogue-based process to make more accurate Levelised cost of energy (LCOE) estimations for offshore wind in India.

10 DEA visits to India and 4 delegation visits to Denmark to knowledge-share on tender documents, environmental impact assessments, geotechnical surveys and one-stop-shop model in order to de-risk offshore wind development in India.

## Main achievements in 2019

Successfully programmed and received approval for expanding the SSC project with a 5-year, DKK 60 million Climate Envelope programme entitled “India-Denmark Energy Partnership” (INDEP).

- 17 Indian officials from 3 government agencies received scholarships for energy courses at the Technical University of Denmark (DTU).