

## Sustainable Urban Water Management

### Cooperation between City of Udaipur, India and City of Aarhus, Denmark

*Danish and Indian Authorities in International Cooperation, Strategic Sector Cooperation*



**Improving Urban Water Management.**

#### Project description

The objective of the Joint Project between the City of Aarhus and the City of Udaipur from 2018 – 2021 is Improvement of urban water management including the whole water cycle: The Ayad River, wastewater and drinking water.

The Expected Outcomes of the Joint Project:

- Enhanced liveability through sustainable development
- Improved water quality by reduced proportion of untreated wastewater
- Improved drinking water services and water quality, increased water-use efficiency and enhanced integrated water management
- Local and global city partnerships on sustainable cities and urban water management established.

#### Key activities and main achievements 2020

City of Aarhus and Aarhus Water A/S have undertaken visits to Udaipur for workshops and meetings on urban water management with Udaipur Municipal Cooperation (UMC). In 2020, wastewater management and sewage treatment has had a special focus.

#### Wastewater management and sewage treatment

- Holistic perspective in wastewater planning has been focus in the knowledge sharing between our two cities. The Wastewater Plan for the City of Aarhus has been compared with the AMRUT Phase 2 and Smart City Program for Udaipur.
- Input to a business case on collection and reuse of septic sludge has been prepared by the City of Aarhus and discussed with the City of Udaipur. This work will be continued in 2020.
- Input to a business case on energy production at Eklingpura Sewerage Treatment Plant has been prepared by Aarhus Water A/S and discussed with City of Udaipur. Eklingpura STP is build and operated by City of Udaipur and a private company in a public-private partnership.
- Baseline for sludge composition and business case for sludge to energy production will be prepared in cooperation with the EU International Urban Cooperation (IUC) Programme. City of Udaipur and City of Aarhus signed agreements on a City-to-City Cooperation with EU IUC in 2019.

#### CO<sub>2</sub> footprint by combustion or biogas production

Aarhus Vand has conducted a pre-study on the CO<sub>2</sub> footprint for Udaipur. The existent solution of depositing the sludge is used as base case and combustion or biogas production as alternatives.

In the base case we have approximately 44.880 tons of CO<sub>2</sub>. Without taking power consumption for drying the sludge prior to combustion into consideration we have a CO<sub>2</sub> reduction by combusting the sludge of 76% and a CO<sub>2</sub> reduction of 105% when producing biogas.

**Partners: City of Udaipur, City of Aarhus, Ministry of Foreign Affairs/ Strategic Sector Cooperation  
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