

IUC Urban Cooperation Action Plan (U-CAP) Summary

City:	Udaipur	Aarhus
Province, State, Department...:	Rajasthan	Denmark
Country:	India	Denmark
Population:	642.518 (2019)	350.000(2019)
Size (km²)	37 km ²	468 km ²
Period of cooperation	June 4 th 2019 - November 30 th , 2020	

Cooperation Themes:	Sludge to Energy
Related <u>SDGs</u> and <u>Urban Agenda</u> topics:	<p>The initiative will directly contribute to sustainable development goals number 3, 6, 7, 11, 13 and 17.</p> <p>The initiative is relevant to:</p> <ul style="list-style-type: none"> • Climate Adaptation • Circular Economy • Energy Transition • Sustainable use of Land and Nature-based Solutions • Improved health for the citizens • Better water quality in rivers and lakes
Key <u>focus</u> of cooperation themes:	<i>Use of technology and advanced infrastructure for producing energy from the sludge for Udaipur city</i>
Key <u>challenges</u> of cooperation theme:	<ul style="list-style-type: none"> • Availability of appropriate technology. • Availability of efficient local resources. • Local know how and technical competencies. • Lack of general awareness about use of technology. • Associated risk factors.
Main <u>objectives</u> of cooperation as described in the U-CAP:	<p>Overall Objective: Contribute to making Udaipur self-reliant for supply of energy as well as devising a convenient method to dispose the wastewater sludge</p> <p>Objective: The objective of this cooperation is to develop a Baseline Study for sludge to energy at the Sewage Treatment Plants of Udaipur. The Local Action Plan will support the preparation of a study that will set the basis for a more detailed Feasibility Study that will follow in order to be part of the tender documents and process that will be launched by the City of Udaipur.</p>



Short description of main activities and key outputs (e.g. pilot projects):

Main activity: Baseline Study for sludge to energy at the Sewage Treatment Plants of Udaipur.

The objectives of the proposed study are to:

- i. Provide all necessary baseline information that will enable a clear understanding of the current status of operations at a key STP in Udaipur.

It is envisaged that the Baseline Study will cover broadly the following aspects:

- i. To establish a baseline of the current practices to handle the sludge. This should include the policies, governance structures, organisational structure, quantities, characteristics (physical & chemical) and handling.
- ii. To estimate the amount and type of sludge that will be generated over the next 2 decades in line with the urban development plan, demographics, proposed STPs and national norms.
- iii. To present international experience (with a focus on the EU) on similar processes.

To set the basis for a more detailed Feasibility Study that will later look into more detail on technologies, economic-social-environmental criteria, business case analysis, etc.

Expected results and benefits:

Expected Results:

- Sustainable reuse of sludge.
- Clean and green energy.
- Reduction in conventional energy demand.
- Local production of green energy.
- Better health for the citizens of Udaipur.
- Better water quality in the recipients.
- Exchange of experiences and methodologies between the 2 cities.
- Aarhus city will benefit from learning about the Indian conditions and processes, expanding its expertise, and becoming a model city for EU projects.

Benefits:

- Baseline estimation regarding sludge to energy in Udaipur
- Review the various technical interventions and prioritize the best solution to Udaipur Municipal Corporation.
- Preparation of the framework for a feasibility study concerning sludge to energy for Udaipur city.





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For further information (including access to the full U-CAP), please contact:

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