### **Jordan: Linking Water and Climate**





#### **Key Facts**

- Most water stressed country in the world
- 14 % of national energy consumption attributed to water abstraction



### **Pilot Utility in Madaba**





Madaba Utility: Baseline 28,000 t CO<sub>2</sub>e/a; 70 % attributed to water supply

## **ECAM:** Baseline Study and Mitigation Options





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# Madaba, Jordan: Mitigation Actions



## **Challenges and Opportunities**



### 1. Knowledge and Learning

- A. Benefit from global project
- Exchange on implementing effective planning & policy
- Development of global tools (Carbon accounting ECAM)
- B. Benefit from building the capacity of national entities
- National International research consortium
- Better understanding of local context

### 2. Challenges

- Data collection, accuracy and integrity
- Limited budget for implementation









## Jordan: Creation of an Enabling environment



The National Climate Change Policy and Sector Strategic Guidance Framework

- Identify NAMAs
- Biogas capture and energy utilisation

National Water Strategy "Water for Life"

Energy Efficiency & Renewable Energy Policy & Action Plan

- Consideration of mitigation measures in entire urban water cycle
- Set targets for GHG  $\downarrow$
- Continuous and regular monitoring of GHGs in entire water cycle → ECAM

### **Steps in Project Pipeline Development**











- 1. Development of GHG Reduction Policy for the Water Sector that considers the entire water cycle (supply and reuse)
- 2. Development of Financing Mechanism / Strategy for the Water Sector
- Support Jordan's NDC implementation and identify and further develop NAMA projects in water & wastewater sector while contributing to water security
  - Biogas capture & energy utilization utilities
  - Long-term options for electricity generating systems
  - Energy efficiency





## **Up-Scaling and Implementing NDCs**





### **Our Partners**

On behalf of:



Federal Ministry for the Environment, Nature Conservation, Building and Nuclear Safety

of the Federal Republic of Germany



Hashemite Kingdom of Jordan



Water Authority of Jordan



the international water association

Implemented by:



