



The Covenant of Mayors' Initiative

Eng. Emil Alasis



REEEI-TA Team Leader
RE/EE Expert

The Covenant of Mayors' Initiative



Outlines

- ✓ The Covenant of Mayors (مبادرة عمداء البلديات)
- ✓ CoM Commitments and Requirements (الالتزامات والمتطلبات)
- ✓ The Business as Usual Approach (الاعمال بالنهج المعتاد)
- ✓ Key Energy Projects in Jordan (المشاريع الرئيسية في الاردن)
- ✓ About REEEII-TA (المساعدة الفنية لبرنامج الطاقة المتجددة وكفاءة الطاقة)

The Covenant of Mayors' Initiative



The Covenant of Mayors [1/4]

كيف بدأ كل هذا How it all started

- Launched in **2008** for EU municipalities by EC to support EU climate and energy targets.
أطلقت في عام **2008** لبلديات الاتحاد الأوروبي من قبل المفوضية الأوروبية لدعم أهداف الاتحاد الأوروبي في المناخ والطاقة.
- In **2011**, the **Covenant of Mayors East** is launched (Belarus, Ukraine, Moldova, Armenia, Georgia, and Azerbaijan).
في عام **2011**، تم إطلاق مبادرة عمداء بلديات شرق أوروبا (بيلاروسيا، أوكرانيا، مولدوفا، أرمينيا، جورجيا، وأذربيجان).
- In **2012**, the **CES MED project** for South municipalities is launched.
في عام **2012**، تم إطلاق مشروع توفير طاقة نظيفة لمدن البحر المتوسط للبلديات الجنوبية.
- The **Mayors' adapt initiative** (sister initiative to CoM) is launched in 2014, focusing on climate change adaptation.
في عام **2014**، تم إطلاق مبادرة عمداء البلديات للتغير المناخي.
- In **2015**, the two initiatives merge, forming the **Covenant of Mayors for Climate and Energy**.
في عام **2015**، تم دمج المبادرتين، وتشكيل مبادرة عمداء البلديات للمناخ والطاقة.

The Covenant of Mayors' Initiative

The Covenant of Mayors [2/4]

The way forward

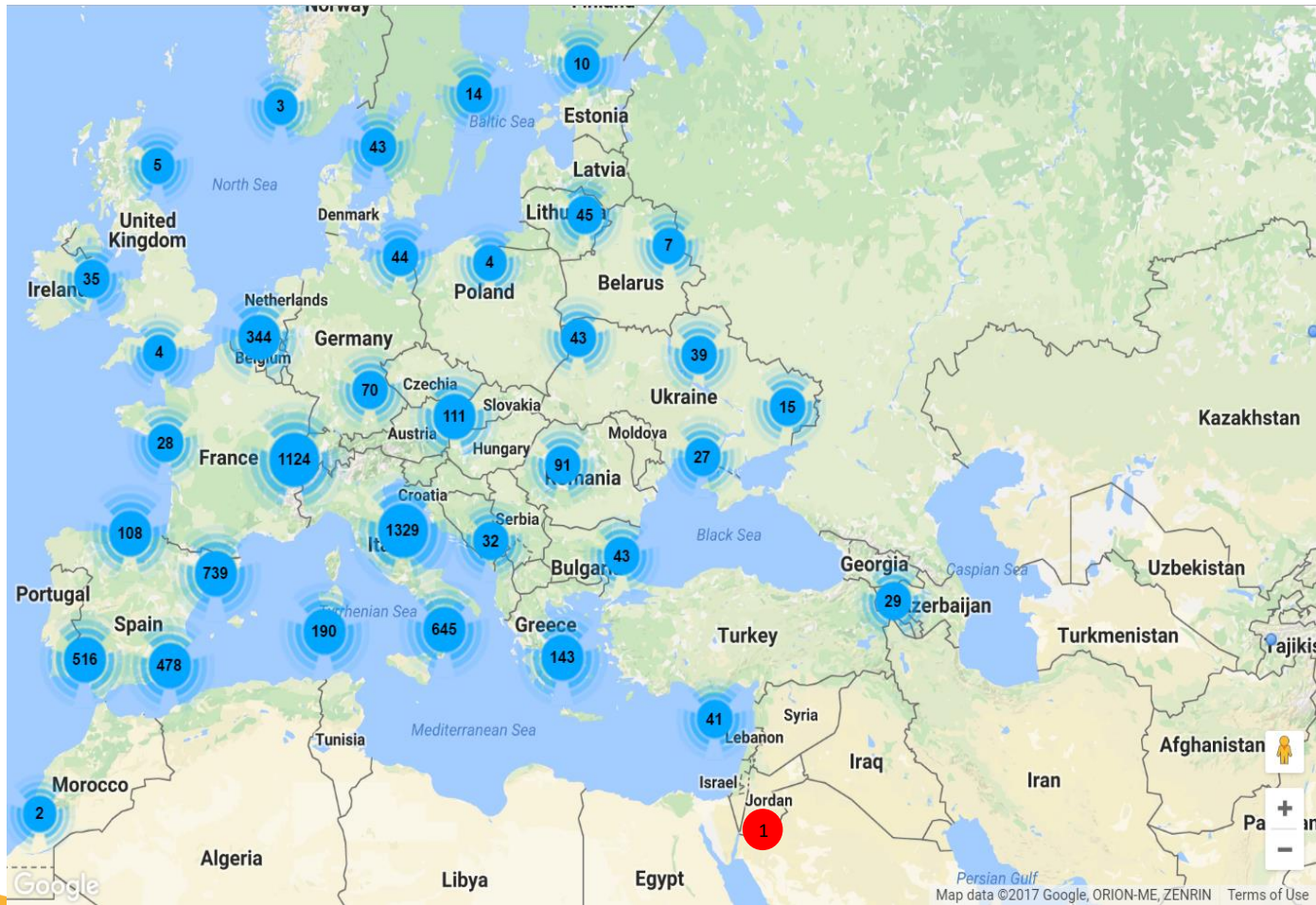
- In June 2016, it was decided to go global. The Global Covenant of Mayors for Energy and Climate is to be launched. **في حزيران 2016 بدأ العمل بالمبادرة العالمية لعمداء البلديات للمناخ والطاقة**



The Covenant of Mayors' Initiative

The Covenant of Mayors [3/4]

The Covenant in Figures [1/2]



7.336 signatories

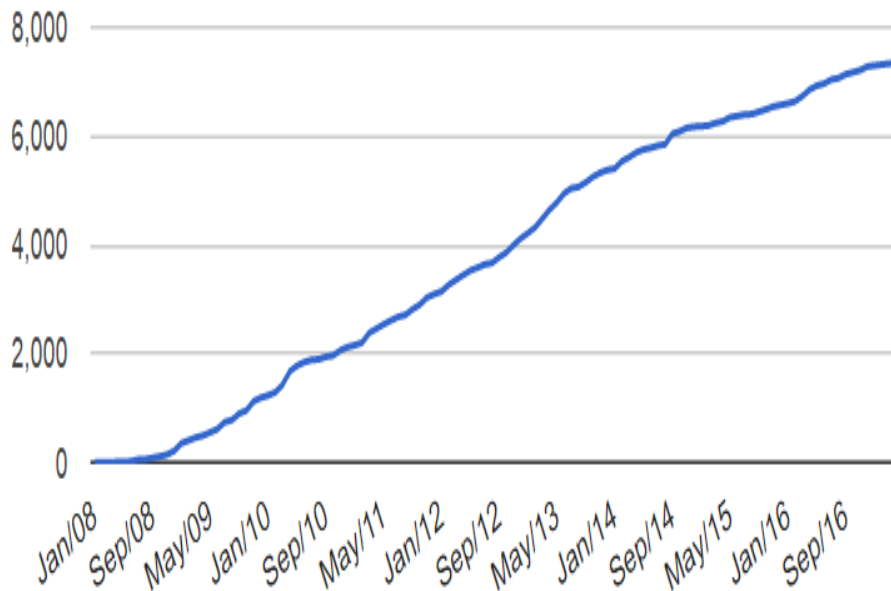
5.827 SEAPs submitted

1.389 monitoring reports submitted

The Covenant of Mayors' Initiative

The Covenant of Mayors [4/4]

The Covenant in Figures [2/2]



South Municipalities

49 municipalities adhered

23 signatories

19 SEAPs submitted and approved by JRC

Jordan

3 Municipalities

Sahab, Karak and ASEZA (AQABA)

3 SEAPS submitted and Approved

The Covenant of Mayors' Initiative



CoM Commitment

Voluntary commitment by municipalities to meet and exceed EU objectives for Climate and Energy

الالتزام التطوعي من قبل البلديات لتحقيق اهداف الاتحاد الاوروبي بما يخص قطاعي المناخ والطاقة



For 2030, a commitment of 40% reduction of the emissions is envisaged for EU municipalities.

يجب على بلديات الاتحاد الاوروبي الالتزام في تخفيض الانبعاثات بنسبة 40% حتى عام 2030

The Covenant of Mayors' Initiative



CoM Requirements [1/4]

How to join الانضمام

To join the ever-growing movement, local authorities should undertake the following process:

للاضمام لهذه الحركة
المتنامية يجب على السلطات المحلية تولي النهج التالي

- Present the Covenant of Mayors initiative to the municipal council. تقديم مبادرة عمدة البلديات لمجلس البلدية.
- Once an official resolution has been adopted by the council, the mayor or equivalent representative of the council should sign the Covenant adherence form. وبمجرد أن يعتمد مجلس البلدية رسمياً، ينبغي أن يوقع عمدة البلدية أو ممثل المجلس على الالتزام بالمبادرة

Adhesion Form



I, [Name of the Mayor (or other equivalent representative)], [Mayor (or Job title)] of [Name of the local authority] have been mandated by the [Municipal Council (or equivalent decision-making body)] on [date] to sign up to the **Covenant of Mayors for Climate and Energy**, in full knowledge of the commitments set out in the official [Commitment Document](#) and summarised below.

Therefore, my local authority principally commits to:

- Reducing CO₂ (and possibly other greenhouse gas) emissions on its territory by at least 40% by 2030, namely through improved energy efficiency and greater use of renewable energy sources;
- Increasing its resilience by adapting to the impacts of climate change.

In order to translate these commitments into action, my local authority undertakes to fulfil the following step-by-step approach:

- Carry out a **Baseline Emissions Inventory** and a **Climate Change Risk and Vulnerability Assessment**;
- Submit a **Sustainable Energy and Climate Action Plan** within two years following the above date of the municipal council decision;
- **Report progress** at least every second year following the submission of the Sustainable Energy and Climate Action Plan for evaluation, monitoring and verification purposes.

The Covenant of Mayors' Initiative



CoM Requirements [2/4]

Obligations (1/2)

- Submit a Sustainable Energy and Climate Action Plan (SECAP), approved by the municipal council within two years following their official adhesion to the Covenant of Mayors initiative, and outlining the measures and policies they will implement to achieve their targets; تقديم خطة عمل الطاقة المستدامة والمناخ والموافقة عليها من قبل مجلس البلدية في غضون عامين من تاريخ انضمامهم الى مبادرة عمداء البلديات وتحديد السياسات التي سيطبقونها لتحقيق الاهداف المطلوبة

Publish regularly - every 2 years after submission of their SECAP - implementation reports stating the degree of implementation of the SECAP and the interim results; تقديم تقرير منتظم كل سنتين يبين مراحل تنفيذ الخطة المعدة ونتائجها

The adhesion to the Covenant of Mayors is fully free of charge.

The Covenant of Mayors' Initiative



CoM Requirements [3/4]

Obligations (2/2)

Covenant signatories commit to submitting their SECAPs within two (2) years following adhesion.

يلتزم الموقعون بتقديم الخطة المستدامة للطاقة والمناخ في غضون سنتين بعد انضمامهم

The signatories must: على الموقعون الالتزام بما يلي

1. Fill in the SECAP template in English املأ نموذج خطة العمل باللغة الانجليزية
2. Upload the full SECAP (PDF format) in their national language or in English تحميل كامل خطة العمل باللغة الوطنية او اللغة الانجليزية (PDF format)
3. Upload the municipal council approval decision تحميل قرار موافقة مجلس البلدية



The template includes four main parts dedicated to:

يتضمن النموذج اربعة اجزاء رئيسية:

- Long term vision and overall strategy رؤية طويلة الالمد واستراتيجية شاملة
- Key results of the Baseline Emission Inventory النتائج الرئيسية لمخزون الانبعاثات
- Key elements of the SECAP العناصر الرئيسية لخطة العمل
- Climate Adaptation Chapter التأقلم مع المناخ

The on-line submission system is available via the Signatories' Corner (password restricted area) at: <http://members.eumayors.eu/>.

The Covenant of Mayors' Initiative



The Business as Usual Approach [1/3]

BAU Scenario سيناريو نهج الأعمال المعتادة

This approach is offered to communities that have not reached full development, in order not to obstruct their advancement. ويقدم هذا النهج إلى المجتمعات التي لم تصل إلى التنمية الكاملة، حتى لا تعرقل تقدمها.

The East and South municipalities are entitled to use the BAU approach. EU municipalities are not eligible for this option. ويحق لبلديات الشرق والجنوب استخدام نهج الأعمال المعتادة. بلديات الاتحاد الأوروبي غير مؤهلة. لهذا الخيار

Depending on the country, and the selected baseline year, different adjustments are realized.

واعتمادا على البلد، سنة الأساس المحددة، تتحقق تسويات مختلفة

.

The Covenant of Mayors' Initiative



The Business as Usual Approach [2/3]

BAU example (1/2)

Country	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019
Algeria	1.94	1.77	1.61	1.44	1.38	1.32	1.27	1.21	1.16	1.14	1.13	1.11	1.10	1.08	1.07	1.05	1.03	1.02
Egypt	2.85	2.67	2.48	2.30	2.19	2.08	1.96	1.85	1.74	1.66	1.58	1.50	1.42	1.34	1.27	1.20	1.13	1.06
Israel	1.49	1.48	1.47	1.47	1.43	1.40	1.37	1.33	1.30	1.27	1.24	1.21	1.18	1.15	1.12	1.09	1.06	1.03
Jordan/ Palestine	1.67	1.57	1.48	1.39	1.39	1.40	1.40	1.41	1.41	1.37	1.32	1.28	1.24	1.19	1.15	1.11	1.07	1.04
Lebanon	1.29	1.29	1.28	1.28	1.30	1.33	1.35	1.38	1.40	1.36	1.31	1.27	1.23	1.19	1.15	1.11	1.07	1.04
Libya	1.36	1.39	1.42	1.45	1.41	1.37	1.33	1.29	1.25	1.23	1.20	1.18	1.15	1.13	1.10	1.08	1.05	1.03
Morocco	2.26	2.16	2.07	1.98	1.90	1.83	1.75	1.68	1.60	1.53	1.46	1.40	1.34	1.27	1.22	1.16	1.10	1.05
Syrian Arab Republic	1.30	1.32	1.35	1.38	1.39	1.40	1.41	1.42	1.43	1.39	1.34	1.30	1.26	1.21	1.17	1.13	1.08	1.04
Tunisia	2.20	2.11	2.02	1.94	1.89	1.84	1.79	1.74	1.69	1.60	1.53	1.45	1.38	1.31	1.24	1.18	1.12	1.06

The Covenant of Mayors' Initiative

The Business as Usual Approach [3/3]

BAU example (2/2)

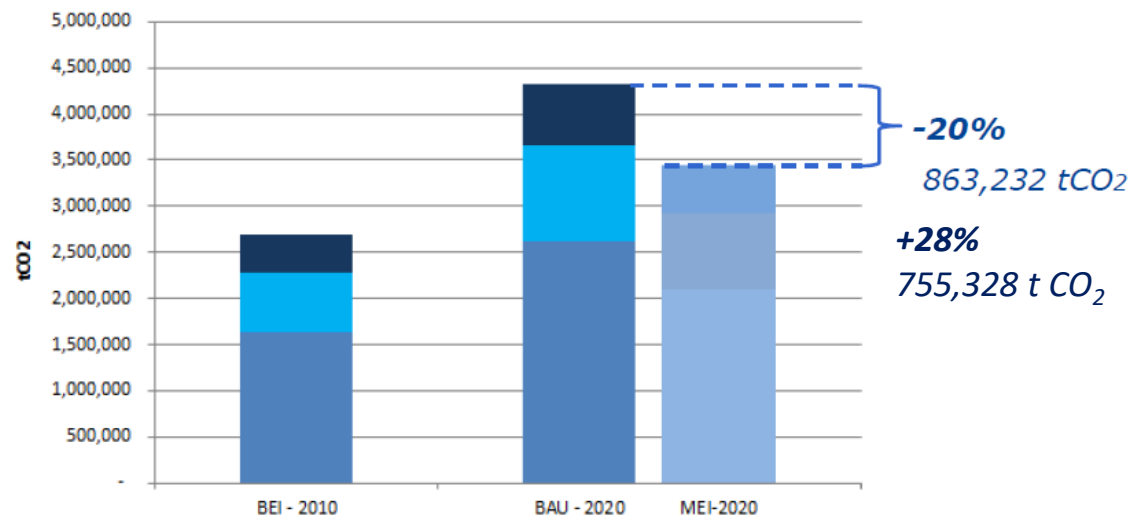
Rabat, Morocco
Baseline year 2010

BEI emissions: 2.697.600 tn CO₂

BAU emissions:
 $1,6 * 2.697.600 = 4.316.160$ tn CO₂

MEI emissions:
 $0,8 * 4.316.160 = 3.452.928$ tn CO₂

Reduction of 863,232 tn CO₂



The Covenant of Mayors' Initiative



CoM Participation Advantages

SECAP Benefits

- Declaration of political commitment to sustainability. إعلان الالتزام السياسي لتحقيق الاستدامة.
- Energy efficiency and savings on the energy bill. كفاءة استخدام الطاقة والتوفير في فاتورة الطاقة.
- Political visibility during the process. الرؤية السياسية أثناء العملية.
- Getting to know the present situation of your city. التعرف على الوضع الراهن لمدينتك.
- Ability to compile a coherent Action Plan. القدرة على تجميع خطة عمل متماسكة.
- Mechanism to monitor sustainability projects of the city. آلية لرصد المشاريع المستدامة في المدينة.
- Technical help and support. المساعدة والدعم الفني.
- Collaboration with other European cities and communities. التعاون مع المدن والمجتمعات الأوروبية الأخرى.
- Access to privileged funding instruments. الوصول إلى أدوات التمويل المتميزة.

The Covenant of Mayors' Initiative



Key Project

Sahab Municipality

Sahab city is one of the poorest communities in Jordan with percentage of poverty up to 54%. Its total area is 12.6 Km², (169,343) where 90,910 Jordanian Citizens are living within this limited area in addition to another 40,000 Syrian refugees, 20,000 Asian workers and 15,000 Egyptian. Spatially, Sahab has the largest two industrial zones in the kingdom; King Abdullah II Industrial Estate which includes 700 factories, and Qualified Industrial zone QIZ which includes 300 factories, where almost 20,000 Jordanians and other nationalities work. Sahab has a strategic industrial and commercial location. It is located at a commercial gathering for all surrounding cities and villages. Additionally, it has an international Street connecting the capital with Aqaba in the south and Saudi Arabia and Iraq in the East.

The Covenant of Mayors' Initiative



Sahab Municipality

SECAP Target:

- Reduce energy consumption and GHG emissions by 5% in the Municipality by 2020 (Short term target) and 14% by 2030 (Long-Term Target).
- 2015 is the baseline year

The Covenant of Mayors' Initiative



Potential Actions to Achieve the Targets / Sahab Municipality

SECTORS & Fields of action	KEY actions measures Per fields of action
Municipal Buildings, equipment, spaces and facilities	Action 1: Installing Energy Efficient lighting units
	Action 2: LED Street Lighting instead of the conventional types.
	Action 3: Installing Motion Sensors in buildings
	Action 4: Installing Solar Water Heaters instead of the electric heaters
	Action 5: Installing Photovoltaic Panels to generate electricity
	Action 6: Replacing conventional small passenger Municipality cars with hybrid cars.
	Action 7: Solid waste management
	Action 8: Waste sorting
	Action 9: 100000 trees in Sahab
	Action 10: planning green corridors in the city
	Action 11: Make walking easier and safer

The Covenant of Mayors' Initiative



Potential Actions to Achieve the Targets / Sahab Municipality

Industrial buildings	Action 1: support programs and policies to retrofit commercial and industrial buildings
	Action 2: Returning Un-returned condensate to the feed water tanks in Food industry
	Action 3: insulating the Un-insulated pipes, fittings and tanks in food industries
	Action 4: Replacing the Fluorescent lamps fixtures with LeD lamps fixtures in commercial buildings
	Action 5: Using Regenerative burners instead of conventional burners in Steel Reheating industry.
	Action 6: Accelerate conversion of organic waste to energy using anaerobic digestion

The Covenant of Mayors' Initiative



Potential Actions to Achieve the Targets / Sahab Municipality

Residential buildings	Action 1: Insulating walls and roofs in 100 new houses.
	Action 2: Reducing Energy Bills for Sahab Families
	Action 3: Reducing Solid Waste
	Action 4: Install low-flow shower heads
	Action 5: Installing Energy Efficient Lights
	Action 6. Expand use of smart grid and advanced meter technologies
	Action 7: Installing compact fluorescent bulbs
	Action 8: Replace old refrigerator with a new, Energy Star® model
	Action 9: Promote solar cells for houses (subsidies)
	Action 10. Develop and implement an urban tree plan to grow the canopy
	Action 11: Planting trees

The Covenant of Mayors' Initiative



Potential Actions to Achieve the Targets / Sahab Municipality

School buildings	Action 1: Classes and activities to raise environmental awareness of pupils
	Action 2. waste separation
	Action 3: photovoltaic systems to generate electricity
	Action 4: motion sensors to save energy
	Action 5: green roofs
	Action 6: sustainable plantation system (type of trees)

The Covenant of Mayors' Initiative



Potential Actions to Achieve the Targets / Sahab Municipality

Mosques buildings	Action 1: solar system for cooling and heating
	Action 2: Install energy efficient lighting units
	Action 3: treatment of wastewater to use it for irrigation
Private sector	Action 1: Develop and Deploy Advanced Transportation Technologies:
	Action 2: support leading local businesses striving to meet energy and carbon reduction goals
Hospitals& Healthcare centers	Action 1: sustainable building codes
	Action 2: special focus on waste management (especially dangerous waste)
	Action 3: wastewater management
	Action 4: sustainable gardens for better health recovery of patients

The Covenant of Mayors' Initiative



Potential Actions to Achieve the Targets / Sahab Municipality

**General Municipal
organizational
actions (28 Actions)
First 10 are:**

Action 1: design a green building code

Action 2: Incentivize new construction to exceed existing building codes

Action 3: Green the zoning and land use codes to encourage sustainable development

Action 4: oblige cutting stone factories to install air filters when renewing their licenses

Action 5: oblige building of hangers for queries

Action 6: Support businesses to reduce industrial process emissions

Action 7: Support programs and policies to retrofit commercial and industrial buildings

Action 8: Green roof when renewing the license for residential and industrial buildings

Action 9: implementation of proper insulation system for license renewal

Action 10: Create incentives and policies that encourage residents and businesses to reduce carbon emissions

The Covenant of Mayors' Initiative



Potential Actions to Achieve the Targets / Sahab Municipality

**General Municipal
organizational
actions (28 Actions)
First 10 are:**

Action 1: design a green building code

Action 2: Incentivize new construction to exceed existing building codes

Action 3: Green the zoning and land use codes to encourage sustainable development

Action 4: oblige cutting stone factories to install air filters when renewing their licenses

Action 5: oblige building of hangers for queries

Action 6: Support businesses to reduce industrial process emissions

Action 7: Support programs and policies to retrofit commercial and industrial buildings

Action 8: Green roof when renewing the license for residential and industrial buildings

Action 9: implementation of proper insulation system for license renewal

Action 10: Create incentives and policies that encourage residents and businesses to reduce carbon emissions

The Covenant of Mayors' Initiative



About REEEII-TA

المساعدة الفنية لبرنامج الطاقة المتجددة وكفاءة الطاقة في الأردن



تمويل مشاريع الطاقة،
وإشراك القطاع الخاص،
الطاقة المتجددة وكفاءة
الطاقة في قطاع المياه،
وإدارة المشاريع

الطاقة المتجددة وكفاءة
استخدام الطاقة وسياسة
الطاقة، الطاقة وتخطيط
وبناء المؤسسات

التدريب وبناء القدرات في
جميع مجالات الطاقة
المتجددة وكفاءة الطاقة
الدورات المعتمدة



خبرتها الطويلة في الأردن ومنطقة البحر الأبيض المتوسط.
والالتزام لإيجاد حلول فعالة للأردن

The Covenant of Mayors' Initiative



About REEEII-TA

المساعدة الفنية لبرنامج الطاقة المتجددة وكفاءة الطاقة في الأردن / ممول
من الاتحاد الاوروبي

The project provides Technical and financial support for MORE of 3 NEXUS projects:

1. Five Solar Powered Pumping Irrigation stations:

Total Investment / Fund: EUR 25,000,000



The Covenant of Mayors' Initiative



About REEEII-TA

المساعدة الفنية لبرنامج الطاقة المتجددة وكفاءة الطاقة في الأردن / ممول
من الاتحاد الاوروبي

The project provides Technical and financial support for more than 3 NEXUS projects:

2. 300 PV-Powered water irrigation pumps for 300 farms in Jordan Valley and the Highlands.

Total Investment / Fund: EUR 7,000,000



The Covenant of Mayors' Initiative



About REEEII-TA

المساعدة الفنية لبرنامج الطاقة المتجددة وكفاءة الطاقة في الأردن / ممول
من الاتحاد الاوروبي

The project provides Technical and financial support for 3 NEXUS projects:

3. Waste to Energy Project (Energy Generation from Solid Waste)

Total Investment / Fund: EUR 22,000,000





Thank you



REEE II TA
Funded by the European Union