



**CASEP**

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**INO GATE  
ANNUAL MEETING  
BRUSSELS, Belgium  
October 22, 2014**

**“Sustainable Energy Programme for Central Asia:  
Renewable energy sources & Energy Efficiency”  
(CASEP)**



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## What is CASEP?

An EU-funded 36 month long programme for regional energy cooperation with technical assistance budget of 4 million Euro, between the European Union and its Partner Countries in Central Asia, and covers “Sustainable Energy” for the Central Asian Region **[ends April 2016]**

(Contracting Authority is EC DEVCO Unit H2 Geographical Coordination Central Asia, Middle East/Gulf, Asia Regional Programmes)



**Beneficiaries are the 5 INOGATE Partner Countries in Central Asia: Kazakhstan, Kyrgyzstan, Tajikistan, Turkmenistan and Uzbekistan**

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## What is CASEP? Relation to INOGATE?



**CASEP** Covers INOGATE  
Component C  
“Sustainable Energy “ in the  
Central Asian Countries of:  
Kazakhstan  
Kyrgyzstan  
Tajikistan  
Turkmenistan, and  
Uzbekistan

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## What is CASEP?

### CASEP: Sustainable Energy; Promotion of RES and EE

- The overall objective is to contribute to the increased security, reliability and efficiency of energy supplies in the Central Asian countries and thereby to improve the preconditions for regional integration of efficient and sustainable energy systems and increased cooperation with EU countries
- The purpose is to assist in the set-up of the necessary policy, regulatory and institutional mechanisms enabling the penetration of renewable energy sources in the energy mix of the beneficiary countries as well as increasing the energy efficiency at national level .... in accordance with each country priorities

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**What is CASEP?**

## **CASEP components**

**1**

**Support policy design and formulation for introduction of RES & EE nationally and regionally**

**2**

**Professional development of local partners in RES & EE policies and instruments**

**3**

**Pilot project development in the fields of RES & EE**

**4**

**Awareness raising on RES & EE**

**5**

**Co-ordination with INOGATE activities**

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**What is CASEP?**

## **CASEP component Activities**

### **COMPONENT 1**

**Support policy design and formulation for introduction of RES & EE nationally and regionally**

**Key Activities (Based on agreed need for improvement and request by Beneficiary Country):**

- **Capacity review of MKUR (for Energy and especially RES & EE)**
- **Assessment of potential for use of EE & RES in Beneficiary Countries**
- **Support development of policy frameworks for Beneficiary Countries for development of “Sustainable Energy” policies**

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What is CASEP?

## CASEP component Activities

### COMPONENT 2

**Professional development of local partners in RES & EE policies and instruments**

#### Key Activities:

- **Assess existing capacity (and needs) of MKUR, Beneficiary Countries for professional development in fields of EE & RES**
- **Set up institutional development/capacity building schemes (based on above assessment)**
- **Implement targeted capacity building schemes**

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What is CASEP?

## CASEP component Activities

### COMPONENT 3

#### Pilot project development in the fields of RES & EE

**Key Activities (Contingent upon availability of financing, e.g. IFCA):**

- Identify a defined number of pilot projects
- Demonstrate actual benefits of these identified projects
- Design technical specifications (based on identified projects)
- Prepare tender documentation for implementation (as above)
- Design monitoring for full cycle of above projects
- Organize stake holder coordination and systems in support of these projects
- Assure replicability of these projects
- Work with International Financial Institutions to identify bankable projects for funding

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What is CASEP?

## CASEP component Activities

### COMPONENT 4

#### Awareness raising on RES & EE

##### Key Activities:

- **Assessment of current perception and awareness of EE & RES in Beneficiary Countries**
- **Prepare a Communications Strategy (with tools) based on above**
- **Prepare a Communications Action Plan, with events and activities**
- **Implement the above events and activities**

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What is CASEP?

## CASEP component Activities

### COMPONENT 5

#### Co-ordination CASEP, INOGATE activities

#### Key Activities:

- Support a common CASEP, INOGATE energy interface and work for Central Asian Beneficiary Countries
- Assure coordination in visibility and information
- Assure work programs are co-ordinated, lessons-learned absorbed into work programs

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## Improvement of EE

- The CASEP main emphasis is on introducing of a new concept, **Demand-side management to improve energy efficiency**, in Beneficiary Countries
- A more dynamic and cooperative set-up is required for such Demand-side EE project implementation, including following considerations:
  - ✓ Large number of small-scale projects requires moving from project-by-project based approach to a program approach => **assistance in preparation/up-dating of the National Energy Saving Program (NESP)**
  - ✓ The involvement of numerous stakeholders requires effective inter-institutional cooperation => **assistance in development of institutional models for implementation of the NESP**
  - ✓ Municipal level involvement in energy sector development planning is required => **assistance in development of Sustainable Energy Action Plans at municipal level (Covenant of Mayors initiative)**

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## Promotion of RES

- The CASEP emphasis is on **introducing of sustainability criteria in RES policy planning and implementation**
- Different set-up is needed for making RES projects, especially small-scale projects, sustainable:
  - ✓ Similarly to the EE set-up, moving from a project-by-project approach to a program approach is required => **assistance in preparation/updating of the National Strategy on RES**
  - ✓ Similarly to the EE set-up, effective inter-institutional cooperation is required
  - ✓ Many RES projects offer additional solutions by integrating EE aspects (e.g. Integrated solar energy components in EE boiler houses) and thus the active cooperation/coordination of EE and RES programs should be ensured



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## Work program: Overall priorities – 2014

- MKUR capacity assessment and recommendations for its increased support/ institutional strengthening in promotion of EE/RES and dedicated Regional event
- Stakeholder consultations – seminars on EE/RES policy planning and implementation (in all countries)
- Assistance in development of national level programs (NESP and NS RES – KYR and TAJ), including:
  - ✓ assessment of EE/RES potential
  - ✓ analysis of alternative scenarios for EE/RES development
  - ✓ assessment of legal framework and suggestions for removal of barriers

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## Work program: Overall priorities – 2014

- Assessment of existing institutional capacity and development of capacity building programs (in all countries)
- Implementation of specific capacity building programs (energy audits in industrial enterprises – KAZ and UZB; training of RES project managers - KAZ)
- Organization of seminars on sustainability requirements to EE/RES projects (KAZ, KYR, TAJ, UZB)
- Study tours to GERM/LATV, SERB/CROA – EE/RES (KYR and TAJ)
- Regional event – Sustainable Energy Week (KAZ, KYR)
- Development of Awareness raising strategy, action plan and started implementation

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## Work program: Overall priorities – 2015-2016

- Implementation of specific capacity building programs (in all countries)
- Strengthening of municipal level capacity for promotion of EE/RES – following CoM efforts in development of SEAPs (KYR and TAJ)
- Study tours – EE/RES (KAZ, KYR, TAJ, TKM, UZB)
- Regional event – Sustainable Energy Week (TAJ, TBD)
- Regional event – Strengthening of municipal capacity in development of investment programs (in cooperation with CoMO East project)
- Identification of EE/RES pipelines to be financed by IFIs (KYR, TAJ, UZB)
- Implementation of Awareness raising action plan (in all countries)

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## Work program: Regional – 2014

- Component 1:
  - ✓ Systems, capacity and legal review of MKUR
  - ✓ Strengthening of CA RES RC technical capability in conducting of RES potential assessment and regional coordination skills
  - ✓ EU best practices:
    - Institutional models
    - Financial incentives for RES
    - Energy audits in industry
- Component 2:
  - ✓ Institutional capacity assessment of MKUR
- Component 4:
  - ✓ Sustainable Energy Weeks (Sharing of Regional Experience in Planning and Implementation of Sustainable Energy Policies: EE/RES)
  - ✓ MKUR support event

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## Work program: Regional – 2014

Activity	Deliverable	IV	V	VI	VII	VIII	IX	X	XI	XII
1.a: Systems, capacity and legal review of MKUR	MKUR assessment		STE	STE	R				EV	
1.d: EU best practices	Institutional models				STE	STE	R	EV		
	Financial incentives for RES		STE	STE	R			EV		
	Energy audits in industry								STE	STE
2.a: Institutional capacity assessment	MKUR assessment	STE	STE	R					EV	
4.d: Communication events	Sust. Energy Week				EV				EV	

STE – Short-term expert; R – Report; EV - Event



## Work program: Kazakhstan – 2014

- Component 2:
  - ✓ Institutional capacity assessment focused on Kazakhenergoexpertiza - conducted
  - ✓ Capacity building plans for strengthening of Kazakhenergoexpertiza's role as - Holder of state register of companies that should conduct energy audits, CoM National coordinator - developed and implementation started
    - Training on industrial energy audits
  - ✓ Training of RES Project managers in project cycle, procurements, risk management, monitoring & evaluation, etc.
- Component 3:
  - ✓ Wind energy project design assistance; for Samruk Green Energy staff in usage of WindPro and FIDIC contracts conducted
- Component 4:
  - ✓ Development of Awareness raising strategy, action plan and started implementation

## Work program: Kazakhstan – 2014

Activity	Deliverable	IV	V	VI	VII	VIII	IX	X	XI	XII
2.a: Institutional capacity assessment	Assessment report			ST	ST	R				
2.b: Capacity building (CB) plans	CB plans					ST	R			
2.c: Specific training programs	Energy audits in industrial enterprises								ST	EV
	WindPro								ST	EV
	FIDIC								ST	EV
4 (a, b, c, d): Awareness raising	Awar. raising strategy, action plan and implem.	ST	ST	R	ST	ST	R	ST	ST	ST

ST – Short-term expert; R – report; EV – Event (seminar, training, study tour)



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## Work program: Kyrgyzstan – 2014

- Component 1:
  - ✓ Three meetings of Inter-institutional WGr for updating of the NESP and NS RES already conducted
  - ✓ Updating of the NESP:
    - Analysis of alternative scenarios for EE development
    - EE potential assessment
    - Legal framework assessment
    - Draft NESP produced (end of 2014)
  - ✓ Development of NS RES:
    - RES potential assessment
    - Development of baseline scenario for RES development
    - Legal framework assessment
    - Preparation of NS RES in accordance with proposed by CASEP roadmap (start of work, which is to end August 2015)

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## Work program: Kyrgyzstan – 2014

Activity	Deliverable	III	IV	V	VI	VII	VIII	IX	X	XI	XII
1.b: EE & RES potential assessment	EE potential assessment								ST	ST	R
	RES potential assessment								ST	ST	R
1.c: Legal framework analysis	GAP analysis: EE							ST	ST	R	
	GAP analysis: RES							ST	ST	R	
1.f: Drafting of policy documents	NESP				EV				EV		EV
	NSRES	EV			EV				EV		EV
2.a: Institutional capacity assessment	Assessment report	ST	ST	R							
2.b: Capacity building (CB) plans	CB plans			ST	R						
2.c: Specific training programs	Study tour EE					EV					
	Study tour RES			EV							
3.a: Identification of pilot projects	Identified potential EE/RES pilot projects								STE	R	



## Work program: Tajikistan – 2014

- Component 1:
  - ✓ Introductory seminars on EE policy planning and RES promotion (April 2014)
  - ✓ Updating of the NESP:
    - First meeting of Inter-institutional WG (scheduled for October)
    - Analysis of alternative scenarios for EE development
    - EE potential assessment
    - Legal framework assessment
    - Draft roadmap for NESP presented to Beneficiaries by CASE
  - ✓ Development of NS RES (as with NESP):
    - First meeting of Inter-institutional WG (October)
    - Analysis of baseline scenario for energy sector development including RES development
    - Legal framework assessment
    - Draft roadmap for NS RES and ToR for WG presented to Beneficiaries by CASEP



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## Work program: Tajikistan – 2014

- Component 2:
  - ✓ Institutional capacity assessment - conducted
  - ✓ Capacity building plans - developed
  - ✓ Study tour EE/RES - conducted
- Component 3:
  - ✓ Organization of seminars on sustainability requirements to EE/RES projects
- Component 4:
  - ✓ Development of Awareness raising strategy, action plan

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## Work program: Tajikistan – 2014

Activity	Deliverable	IV	V	VI	VII	VIII	IX	X	XI	XII
1.b: EE & RES potential assessment	Development of Energy scenario					ST	ST	R		
	EE potential assessment					ST	ST	R		
	RES potential assessment					ST	ST	R		
1.c: Legal framework analysis	GAP analysis: EE						ST	ST	R	
	GAP analysis: RES						ST	ST	R	
1.f: Drafting of policy documents	NESP	EV				EV			EV	
	NSRES	EV				EV			EV	
2.a: Institutional capacity assessment	Assessment report			ST	ST	R				
2.b: Capacity building (CB) plans	CB plans				ST	R				
2.c: Specific training programs	Study tour EE						EV			
	Study tour RES		EV							
3.a: Identification of pilot projects	Sustainability requirements								EV	





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## Work program: Turkmenistan – 2014

- Component 1:
  - ✓ Seminars on EE policy planning and RES promotion (December; in coordination with the EU funded “SDP” project)
- Component 2:
  - ✓ Capacity building plans - developed
    - Training on development of awareness raising campaigns (in coordination with the EU funded “SDP” project)
- Component 4:
  - ✓ Development of Awareness raising strategy and action plan (in coordination with the EU funded “SDP” project)

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## Work program: Turkmenistan – 2014

Activity	Deliverable	IV	V	VI	VII	VIII	IX	X	XI	XII
1.e: Stakeholder consultations	2-day seminar in EE & RES									EV
2.b: Capacity building (CB) plans	CB plans			ST	R					
2.c: Specific training programmes	Awareness campaign									EV
4 (a, b, c, d): Awareness raising	Awar. raising strategy, action plan and implem.	ST	ST	R	ST	ST	R	ST	ST	ST

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## Work program: Uzbekistan – 2014

- Component 1:
  - ✓ Seminars on EE policy planning and RES promotion
- Component 2:
  - ✓ Capacity building plans developed and implementation started:
    - Training on development of institutional set-up and capacity building for quality control of industrial energy audits conducted (one seminar done with the World bank – UzEEF, follow-up TBA)
- Component 3:
  - ✓ Assistance in technical design of solar PV-based electricity supply to about 400 Rural Health Centres (RHC)
- Component 4:
  - ✓ Development of Awareness raising strategy and action plan

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## Work program: Uzbekistan – 2014

Activity	Deliverable	IV	V	VI	VII	VIII	IX	X	XI	XII
1.e: Stakeholder consultations	Seminar in EE & RES								EV	
2.b: Capacity building (CB) plans	CB plans							ST		
2.c: Specific training programs	Energy audits in industrial enterprises								ST	EV
3.a: Identification of pilot projects	Identified pilot RHCs							STE		EV
3. c: Design the technical specifications for the pilot projects	Design of solar PV-based electricity supply to RHCs								STE	STE
4 (a, b, c, d): Awareness raising	Awar. raising strategy, action plan and implem.	ST	ST	R	ST	ST	R	ST	ST	ST



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# Sustainable Energy Programme for Central Asia: Renewable Energy Sources - Energy Efficiency (CASEP)

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**THANK YOU!**

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