NS-46 - Improvement of old residential buildings envelope (exterior doors, windows and thermal insulation) in Serbia

Serbia

NAMA Seeking Support for Implementation

A Overview			
A.1 Party	Serbia		
A.2 Title of Mitigation Action	Improvement of old residential doors, windows and thermal ins	· ·	
A.3 Description of mitigation action	Residential buildings in Serbia up to 1980's were generally built without any thermal insulation. That is the main reason for their tremendous energy consumption for space heating today. The objective of this project is rehabilitation of about 10% of the existing residential buildings in Serbia that were built in the period from 1950's to 1980's, what is approximately 10 millions square meters of houses and apartments buildings. Energy efficiency improvements in selected residential buildings of different size and shape throughout Serbia, aim to: reduce heat energy consumption and costs, increase the level of indoor comfort and end users' satisfaction and reduce GHG emission		
A.4 Sector	Energy supply X Residential and Commercial buildings Agriculture Waste management Other	Transport and its Infrastructure Industry Forestry	
A.5 Technology	Bioenergy X Energy Efficiency Hydropower Wind energy Carbon Capture and Storage Land fill gas collection	Cleaner Fuels Geothermal energy Solar energy Ocean energy Low till / No till	
A.6 Type of action	National/ Sectoral goal Strategy X National/Sectoral policy or program	Project: Investment in machinery X Project: Investment in infrastructure Project: Other	
	Other		
A.7 Greenhouse gases covered by the action	CO2 N2O PFCs	CH4 HFCs SF6	

Other				
B National Implementing Entity				
B.1.0	Name			
B.1.1	Contact Person 1	Ms. Jasminka Pavlovic		
B.1.2	Address	22-26 Nemanjina Street, 11000 Belgrade		
B.1.3	Phone	+381 11 3616 420		
B.1.4	Email	jasminka.pavlovic@mgu.gov.rs		
B.1.5	Contact Person 2			
B.1.6	Address			
B.1.7	Phone			
B.1.8	Email			
B.1.9	Contact Person 3			
B.1.10	Address			
B.1.11	Phone			
B.1.12	Email			
B.1.13	Comments			
	C Expected timeframe for t	he implementation of the mitigation action		
C.1	C.1 Number of years for completion 8			
C.2 Expected start year of implementation 2013				
		D Currency		
D.1	Used Currency	AED		
	•	Conversion to USD: 1		
		E Cost		
Е 1 1	Estimated full past of impla	ļ		
	E.1.1 Estimated full cost of implementation 723480000			
E.1.2	1			
E.2.1	Estimated incremental cost of	-		
E.Z.Z	E.2.2 Comments on estimated incremental cost of implementation			
	F Support required for the	ne implementation the mitigation action		
F.1.1 Am	nount of Financial support	578784000		
	pe of required Financial support	XGrant		
71		Y Loan (sovereign) X Guarantee		
		Y Loan (Private) X Equity		
		X Carbon finance		
		Other		
E 1 2 Co.	mmenta en Eineneiel aumnert			
г.1.3 Col	mments on Financial support	The details of the financial mechanism will be decided upon the completion of the Feasibility study, therefore no further details		
		are provided in this submission form.		
F 2 1 Am	nount of Technological support	are provided in this such issued form.		
	mments on Technological support			
	nount of capacity building support			
		X Individual level		
		X Institutional level		
		X Systemic level		
		Other		
F.3.3 Comments on Capacity Building support				
F.4 Financial support for implementation required				

12.2 Within the Registry	Support provided SupportType Amount Comment Date		
L.1 Outside the Registry L.2 Within the Registry			
L Support received			
K.1 Attachment description K.2 File	Browse		
K 1 Attachment description	SDImprovement of old residential buildings envelope (exterior doors, windows and thermal insulation) in Serbia.pdf thermal insulation) in Serbia		
K Attachments	K Attachments Title Description		
J.2 Link to other NAMAs			
	The new Regulation on Energy Efficiency in Buildings adopted in August 2011 and came into force in September 2012		
	s, plans and programmes and/or other mitigation action		
I.1 Other relevant information including cobenefits for local sustainable development	Positive economic, social and environmental effects wiol include:		
I Other relevant information			
H.1 Other indicators of implementation	Reduction of energy consumption and heating costs in residential buildings		
<u> </u> 	H Other indicators		
G.3 Additional imformation (e.g. if available, information on the methodological approach followed)	Total CO2 reduction for the 30 years period is 15,119,070 tCO2e. The calculations were made with the assumptions of the total floor areas to be rehabilitated in the existing buildings, total annual energy consumption before and after the implementation		
G.2 Unit	MtCO2e		
G.1 Amount	nated emission reductions 0.504		
F.6 Capacity Building support for implementation required			
F.5 Technological support for implementation required			