Reduction apartmen	n of t hea	heat t mete	losse ering	es in syste	the c m B/	distrik ALAN	oution CE a	n net nd pa	works ymer	s of I nt for	Moldo the a	ova d ctuall	ue to y con	inst isume	allatio	on of at.	the		
Description of the project, type and schedule of implementation of the "BALANCE" system																			
Objective o	f the p	roject	Installation of a remote metering system and control of the balance of supplied and consumed heat in distribution networks, can significantly reduce heat losses and, accordingly, CO2 emissions into the atmosphere.																
Description						greenhouse gas emissions. Loss of heat occurs with poor thermal insulation of buildings, leaks in windows and doors, in the wrong mode of heating appliances, improper ventilation and unauthorized connections. The project will record, measure, localize and eliminate losses based on monitoring the balance of daily and hourly consumption in heating networks. The absence of heat metering devices leads to its overestimated consumption. A study conducted by Thermocom showed that when heat meters are installed and when paying for the actually consumed heat, heat consumption drops by an average of 45% . There are about 200 thousand subscribers in Termocom. Sales of heat are 1.35 million Gcal / year. When implementing the BALANCE system, heat consumption is reduced by 45%, which is a decrease in losses by 0.61 million Gcal / year . In the CO2 equivalent, this amounts to 210 000 tons of CO2 per year. Additionally, at a heat cost for the population of \$ 62 per Gcal, the savings from loss reduction will be \$ 37,820,000 per year or \$ 189 per subscriber per year. At an average cost of equipment 360 USD \$ (counter for risers + "BALANCE" system + costs for insulation), the payback period of the metering system installation will be about 24 months. In case of participation in the program of CO2 emission reduction, the installation of the expense of the grant and will not require any additional costs from the Thermocom.													
The program for the implementation of the "BALANCE" system						3333 subscribers per month + equip risers with balance counters, which will cost \$ 1.2 million per month. Below is a table of monthly costs for installation the BALANCE system. For the further operation of heat networks, with a drop in sales of the coolant by 45%, it is necessary to allocate a separate item from the operating costs of heating networks to a separate article!													
Month	2	4	6	8	10	12	14	16	18	20	22	24	26	28	30	32			
Expenses USD/month	1,2	1,2	1,2	1,2	1,2	1,2	1,2	1,2	1,2	1,2	1,2	1,2	1,2	1,2	1,2	1,2			
Savings (mln.USD)	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	1.00	1.10	1. 20	1.30	1.40	1. 50	1.60			
Cost per	1 10	1 00	0.90	0.80	0 70	0.60	0.50	0 40	0.30	0.20	0 10	0.00	-0 10	-0 20	-0.30	-0 40	15.0		
Results of t "BALANCE	The total project costs for the first 24 months will be USD 15.0 million, and in the next 24 months USD 15.0 million can be returned by reducing heat losses and reducing subsidy payments. Termokom will get an automated heat metering system on the scale of the city of Chisinau and reduce heat losses by 0.61 million Gcal / year. In case of participation in the program of CO2 emission reduction, Termocom will receive the BALANCE accounting system exclusively at the expense of the grant, and will also receive an additional 37 820 000 US \$ per year for the development of heating systems.																		
Location					I he Republic of Moldova. Thermocom. Number of subscribers 200 000														
Current sta	PROJECT																		
Schedule	Project start date The duration of the project							2012 5 years (installation of the BALANCE system)											
Reduction	of GH		issior	ns (tor	nnes c	of CO2	2 equi	valent	:)			, - 000	1000	4 000					
Period 20 ye	ears - u	ntil 203	2 (indi	cative e	estimate)						3 675 000 tons of CO2								
Finance			<u> </u>																
The cost of t	he gra	nt at the	e rate o	of 10 U	ISD / ton of CO2							0 000	USD						
I otal investr	nent to	ect (LIS	(Stem E	JALAN	CE and	a therm	nai insu	liation	(USD)		15 00 21 00	<u>0 000</u> 0 000							
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