Reduction of water losses in distribution networks of Moldova, Chisinau, due to reduction of technical losses, theft and detection of faulty metering units																											
Description	of the	projec	t, type	and so	chedule	of imp	lemen	tation o	of the "	BALAN	NCE" sy	stem															
Objective o		Installation and wide use of innovative remote metering systems and equipment for controlling the balance of supplied and consumed water in distribution networks, can significantly reduce water losses and methane emissions into the atmosphere.																									
The program for the implementation of the "BALANCE" system					The loss of water during its transportation and distribution is a significant source of greenhouse gas emissions. Water losses occur in transport networks, water fittings, in indoor networks, because of faulty water meters, because of interference in the operation of meters, with unauthorized connections, when magnets act on the counting mechanism and leakage in the consumer. The project will detect, measure, localize and eliminate losses based on monitoring the daily and hourly consumption balance in transport and in-house networks. There are about 200 thousand subscribers in Apa Canal. The total water loss is 32 million m3 per year. When implementing the BALANCE system, water losses are reduced by 80%, which is a reduction in losses for consumers by \$ 20.0 million per year. If the electricity consumption is 1.25 kWh per m3 of water, in CO2 equivalent it will be 19,200 tons of CO2 per year (k=0,6). Additionally, with a water price for the population of \$ 0.78 per cubic meter, the savings from loss reduction will be \$ 16.5 million per year or \$ 82.5 per subscriber per year. With the cost of equipment \$ 92 (\$ 24 two counters + \$ 64 system "BALANCE" + 4 \$ work) the payback period of the installation of the metering system will be about 14 months. In case of participation in the program of CO2 emission reduction, the installation of the metering system "BALANCE" can be performed exclusively at the expense of the grant and does not require any additional costs from the Apa Canal.																						
					With a 28-month installation program, you will need to install 6500 D100FC radio modules and 13,000 meters per month + balance counters, which will cost \$ 0.6 million per month . Below is a table of monthly costs for implementing the BALANCE system in Chisinau. For the operation of distribution networks, with a drop in sales of water to 50%, it is necessary to allocate operating costs for the maintenance of transport and domestic networks to a separate article from the tariff!																						
Month	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15												
Expenses (mln.USD)	0,6	0,6	0,6	0,6	0,6	0,6	0,6	0,6	0,6	0,6	0,6	0,6	0,6	0,6	0,6												
Savings (mln.USD)	0.02	0,065	0.11	0,155	. 0.2	0.245	0.20	0,335	0.20	0,425	0.47	0,515	0.56	0,605	0,65												
Cost per																											
month	0,58	0,535	0,49	0,445				0,265	-	0,175	41 '11	0,085		-0,005		4,025											
Results of the "BALA		next 14 months 4,025 million USD can be returned due to savings on reducing water losses. Apa Canal will receive an automated metering system on the scale of the city of Chisinau and water losses of no more than 6.4 million m3. In case of participation in the program of CO2 emission reduction, the Apa Canal can receive the BALANCE metering system solely from a grant, and also obtain savings due to a decrease in water losses of \$ 16.5 million per year.																									
Location Category		Republic of Moldova, Chisinau, Apa Canal . Number of subscribers 200 000																									
Current st		Equivalent of CO2 emissions from water losses PROJECT																									
Schedule	_	Project start date The duration of the project						2012 28 months (installation of the BALANCE system when checking / replacing meters)																			
Reduction						CO2 e	quiva	lent)						. opiasii	.gσι	,,											
Before and i								22,400 tons of CO2 384,000 tons of CO2																			
Operating pe	eriod 20	years	(indicat	uve est	ımate)					38	54,000	ions of	LU2														
	he gran	nt at the	rate of	f 10 US	SD / ton of CO2						4 068 000 USD																
Total investr		ALANCE (USD)						4 025 000 USD																			
Profit from the		43 000 USD																									
Contact In			n4		Th	mn ====	"D N / C	2014																			
The developer of the project Mailing address					The company «DJV-COM» of.712 left side, 7 Miron Kostin str., Chisinau, Moldova, MD2068																						
Internet site					www.djv-com.net, www.djv-com.com																						
Phone / Fax					(+373 22) 438341/438334																						
Contact pers		<u>sitio</u> n			Dombrovschi Veaceslav, Director																						
E-mail					djv-com	@starr	net.md,	office@	djv-co	m.net						djv-com@starnet.md, office@djv-com.net											