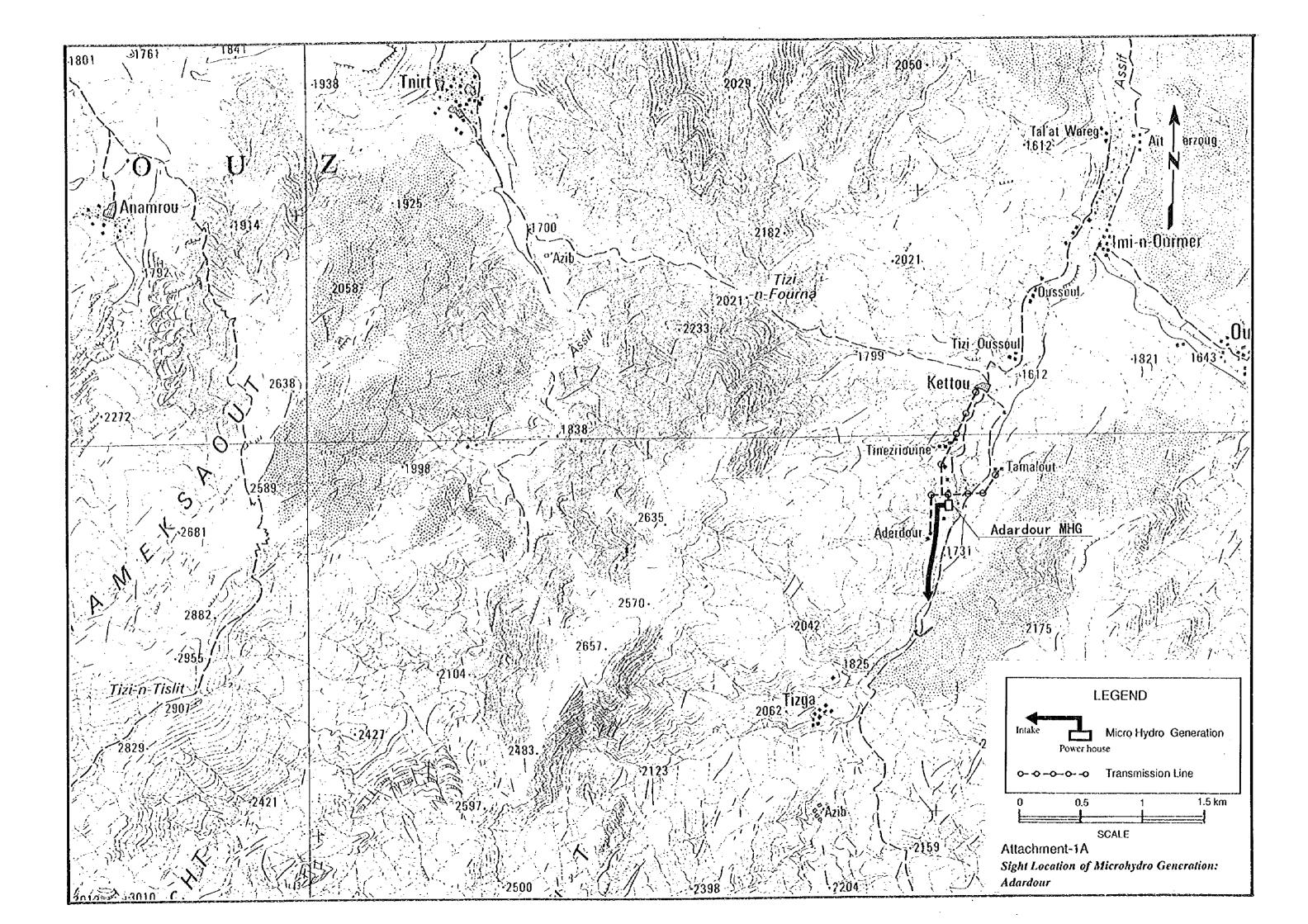
ATTACHMENTS

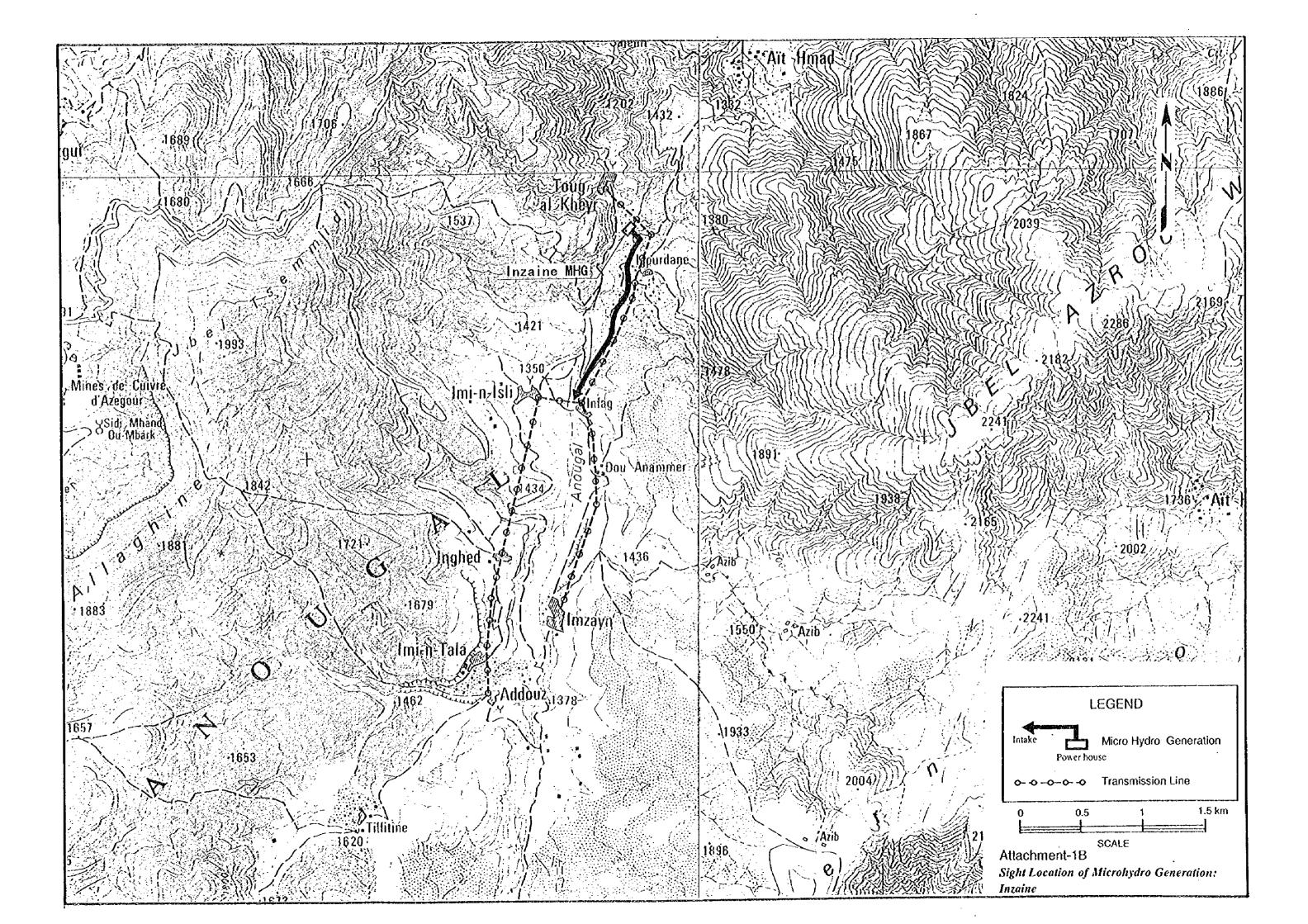
T

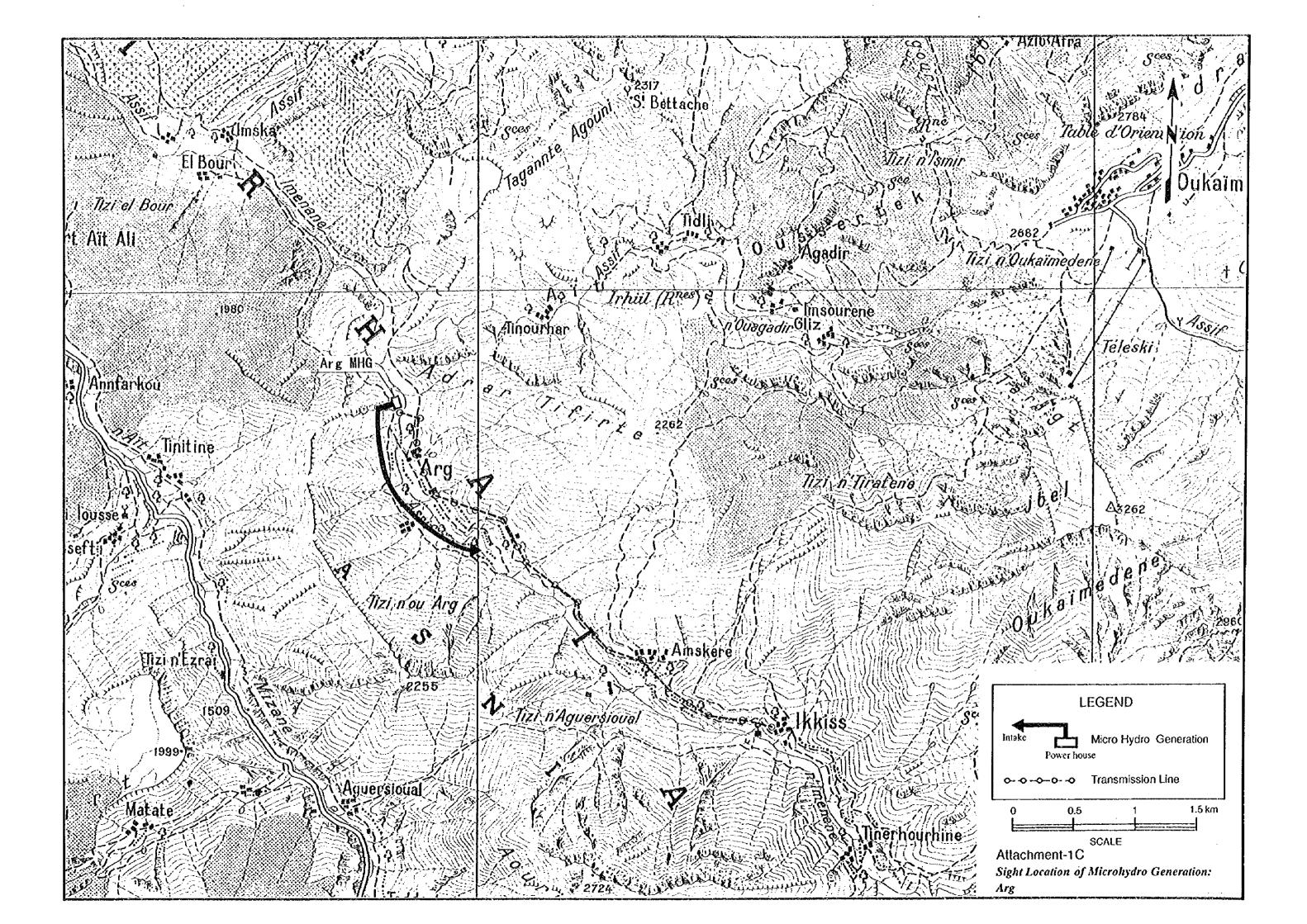
1

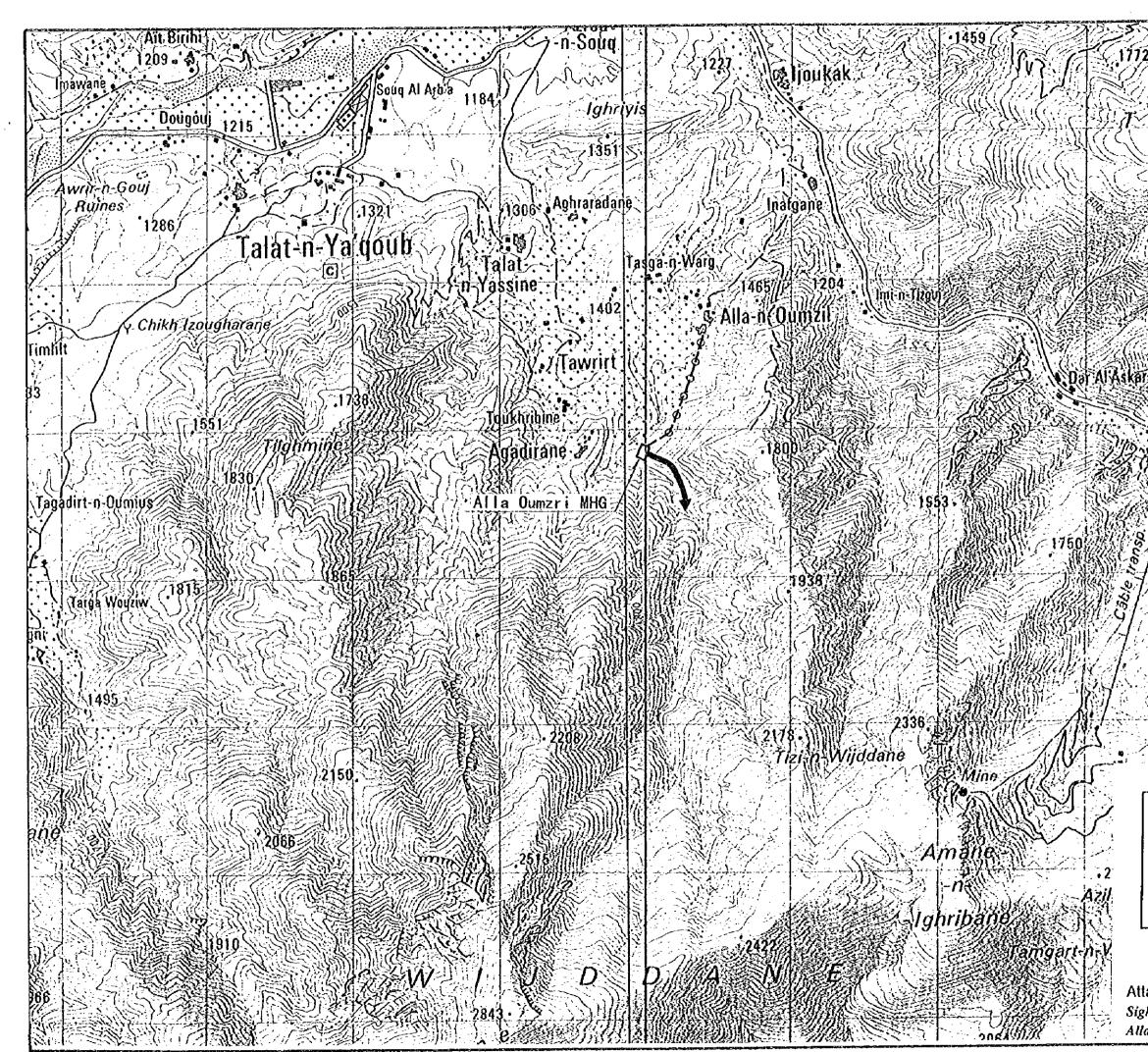
ATTACHMENT-1

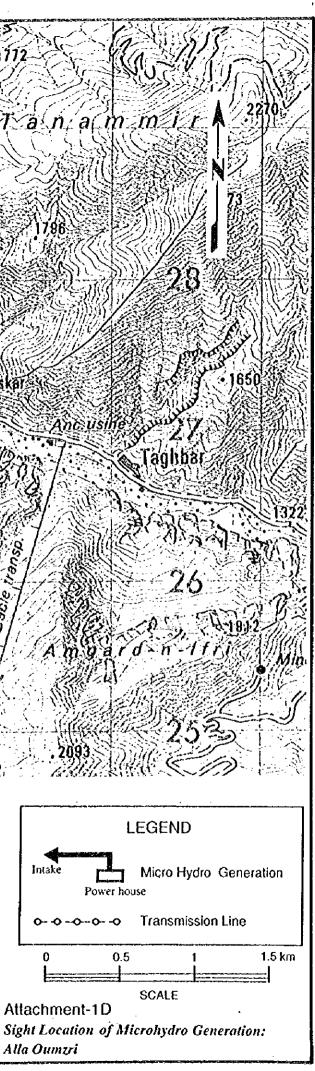
Site Location of Microhydro Generation

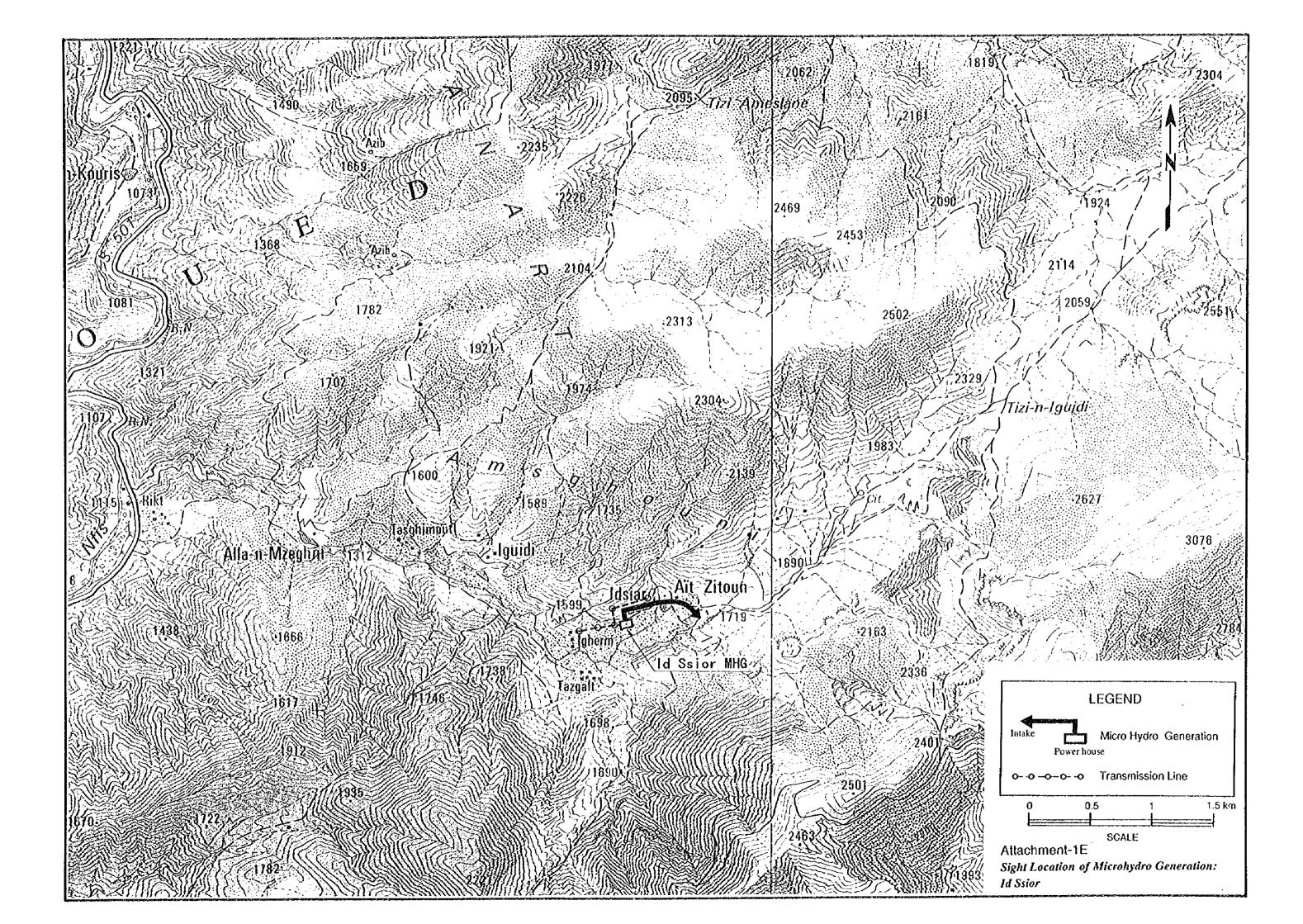


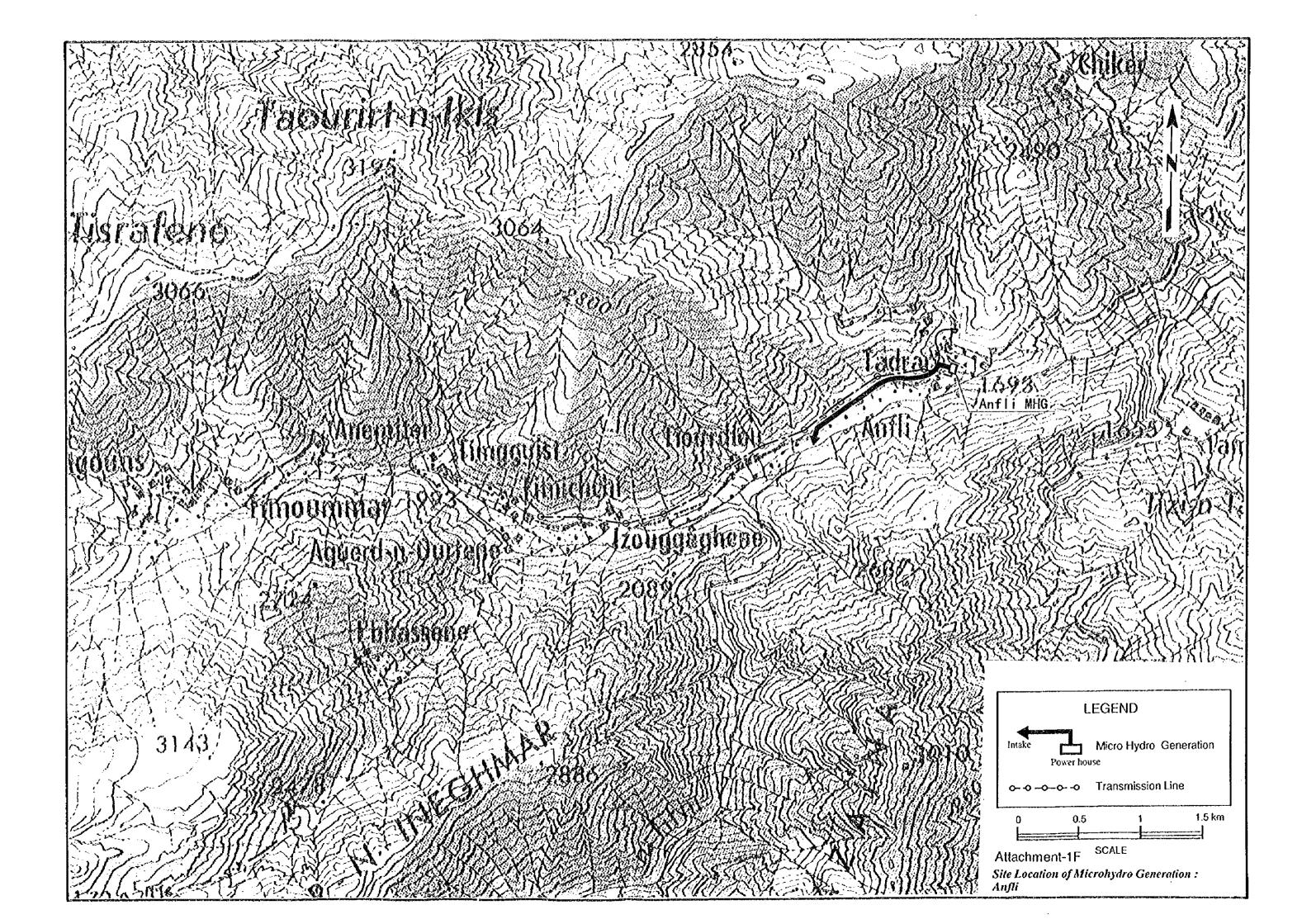


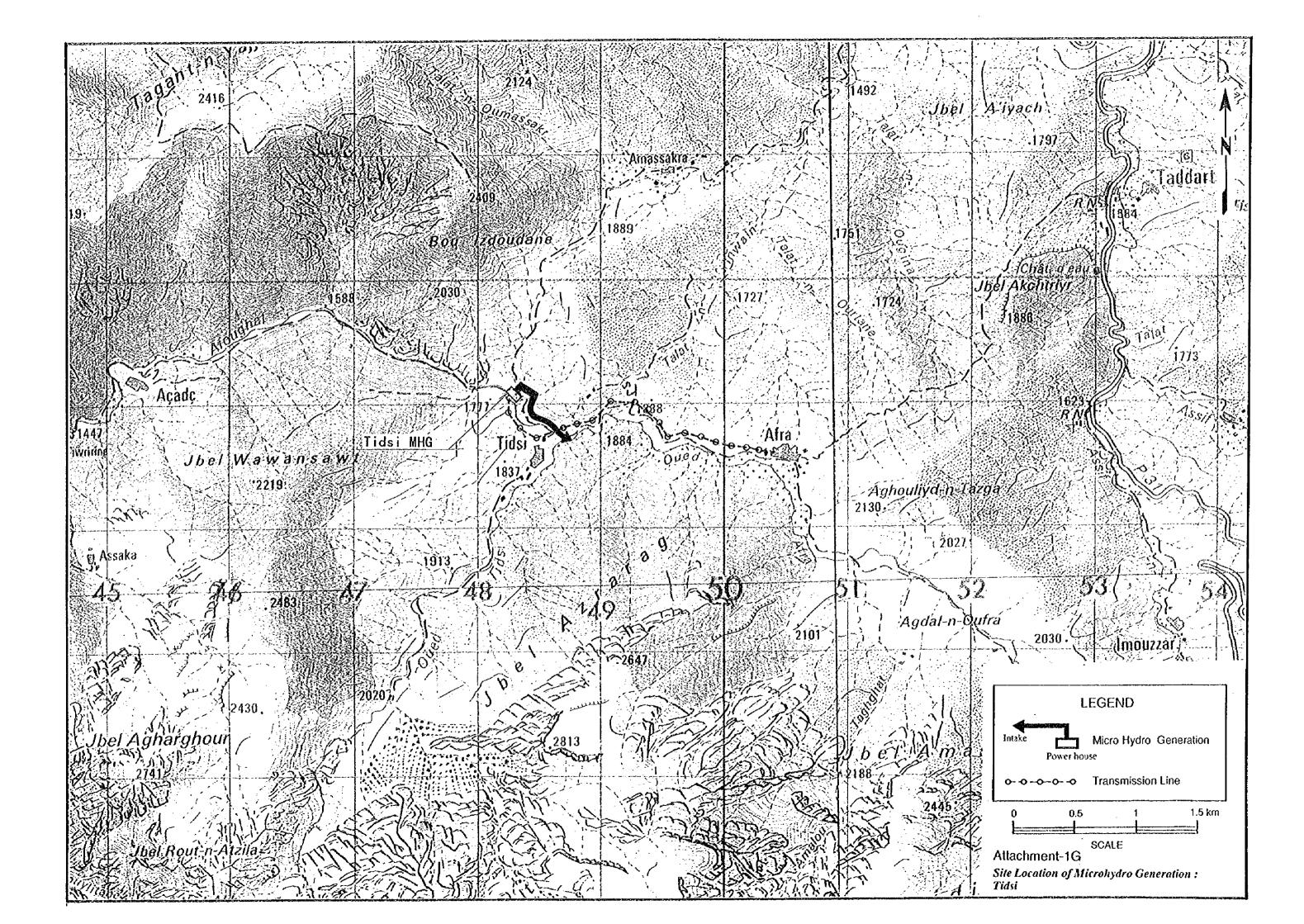












ATTACHMENT-2

Data Sheet of Village-wise Financial and Economic Evaluation

•

°. Z	. Douar	H.H M 2000 or P	Card Capacit 2000	Cal'd Install Capacity capacity 2000 2000	Capacity of battery	Cost of PV 1 PV 1 module 1	PV PV module delivery	Cost of Battery	Number of Systems installed 2000	Cost of Battery controller	Installation cost,	Tax	Superviser fec	Contingenc Fixed coxt y at 2000	Fixed cost at 2000	Variabie cost	Total
							-					: : :					
			, can	-MA	4	USS/Wp	USS/Wp	USS/Ah		USS/kit	USS/kit	20%	10%	104			1.1.1
	0 Tizi Oussem	76 1.5		10.225	8.980	8	13.599	8.980	66	8.910	8				160.373	83.346	243.719
ся	0 Id Aissa	46 1.5	-				8.665	5.700	: Z	5.760							155.167
۳ı	0 Tassa Ouirgane					-	10,175	6,760	74								182,962
4	0 Igrem			12 4.010			5,333	3,480									95,040
80	0 Aghclla			00 8,715			165 11	7,720						-			208,763
<u>م</u>	0 Ikiss	_		0 9,155			12,176	8,140			22,880	7,788			•••		219,591
2	0 Tinerbouhrine				3,820	29,171		3,820									104.322
11	0 Tacheddirt							7,640									208,632
ž	0 Sqour						5,692	5,480	-		-						
<u>م</u>	0 Amagdour							2,680	29								
ន	0 Tamaterte						7,980	5,400						_			
*	1 Awin Mazouz						8,426	8,160.		8,010	•••				-		
ន្ត	2 Bouchiha Bon Omar						8,399	8.060									
8	Bel Abbas		,	-			17,549	16,960			48,100		2 18,714		••		•
£.	0 Derb Chem's		_				7,581	7,320	8								
4	0 Ait Ouzkri							4,840			•			_			
4	0 Ait Hmad							6,000									
\$! 	0							7,280									
49	-			***		85,514	17,077	10,980								P-4	• •
5	0 Talat Ait Ihla	-						8,320					11 445				• •
5								6,0S0		2,940		5,836			107,611	56,724	
8	-							5,880									
5	0 Тіпт							10,860	118							101,532	•
<u>ج</u>	0 Antroune			45 8,200				7,280									
3 :	0 liftatine						14,577	9,700	100		27,560	0,360					14
5	0 Aguenze							2,500					0 2,749	9 3,024	35,654		
3						21,911		4,240									100,075
3							•	4,840			•						113,800
\$							1,443	1,400	51						19,866	12,894	
ĝ.			1	64	кл 		3,704	3,580		۳,	~	сл.		4			
9							572	560									
8								7,400			21,060				,		
S 				••		5		3,300	3			0 3,180	0 3,635				78,213
2	0 louraghan							2,220					4 2,436	5 2,680	31,603		
5	0 Imiki	1 52 1.	1.0 4.635	35 4.635	5.960	30,869	6,165	5,960	9 65	5,850	16,900	oj 5,742	2 6.574			55.914	141.206

Attachment-2A (1/4)

(2/2)
eneration
of PV G
Cost of
Total
Wisc
Village

Į		ľ	ł					<u> </u>	ſ	Mundar of	ſ							
Ň	Douar	Н.Н 2000-	<u>د ک</u> ک	کر ا		Capacity of battery in	Cost of PV	2	Cost of Battery	Systems	Cost of Battery	Installation .	Tax	Superviser	Contingenc Fixed cost		Variable	
				2000	2000	+		delivery		2000	controller							Total
												<u> </u>						
			-*	- SA	4		USS/Wp	LL I	USS/Ah		USS/kit 90	US5/kit 260		10%			Vari crist	[of al
۲ <u>،</u>	011ft Ait Alla	53	0	130	130	2,720	14,186	2.833	2,720	2	2,7050	7,800		3,024	3,326	39,233	25,3081	64,541
2	0 Boukhelf	65	1.0	8,110	8,110	10,380		10,786	10,380	114	10,260	29,640		11,508	-		96,852	246,153
2	0 Addar Ait Ali	ñ	1.0	2,205	2,205	2,800		2,933	2,800	31	2.790	8,060		3,127			25,878	66,442
7	0 Ait M'Barck	ŝ	0.1	2,785	2,785	3,580		3.704	3,580	ес С	3,510	10,140		3,948			33.570	84,789
28	0 Agadir Ait Bourd	ES	1.0	5,515	5,515	7,160		7,335	7,160	11	6,930	20,020		7,817			67,038	168,452
5	0 Afella Ouassif	ň	1.0	2,225	2,225	2,900		2.959	2,900	31	2,790	8,060		3.153			27,366	68,265
	0 Afella Ighil	0	1-0	356	935	1,200	6,227	1.244	1,200	13	1,170	3, 380		1.722		17.147	11.238	28,385
	1 Anfeg	16	1.0	1.440	1.440	098,1		1,915	1,860	20	1,800	5,2())		2.037			17,268	43,682
\$	2 Aguersouak	5	1.0	:,945	1.945	2.500	12,954	2,587	2,500	27	2,430	7,020		2,749			23,142	58,796
8	1 Oumast	1	9	3,310	3,210	4,280	22,045	4,402	4,280	46	4,140	11,960		4,683			39,828	100,565
<u>.</u>	2 Ait Zitoun	5	0:1	3,160	3,160	4,120	21,046	4,203	4,120	44	3,960	11,440		4,477			38,688	96.762
	0 Tagadirt (Ait Bouimzgan	56	0.1	2,505	2.505	3,260	16,683	3,332	3,260	5	3,150	6,100		3,552			30,714	76,801
	1 Zaouit	0	1.0	800	260	1,100	5.728	1,144	1,100	. 12	080,1	3.120		1.2.17	_		10,272	26,059
87	2 Izalaghan (Dar Brahim O	£.	1.0	1,215	1,215	1.560	8,092	1.616	1,560	17	1.530	4.420		1.722			14,334	36,670
22	0 Tigouder (Ben suid, Zyou	Ň	1.0	2,300	2,300	2,960	15.318	3,059	2,960	32	2,880	075"R		3,254			27,492	69,694
	0 Amezi	35	0.1	3,440	3,440	4,440	22,910	4,575	4,440	48	4,320	12,480		4,873			41,280	104,486
_	0 Agouni	Ξ.	0.	2.805	2,805	3,620	18,681	3.731	3,620	39	3.510	10,140		3,968			33,810	85,279
5	0 Chaabat Tarik (Talet NTS	<u>56</u>	0.1	5,140	5,140	6,580	34,232	6,336	6,580	12	6,480	18,720		7,235			61,116	155,619
5 	0 Ighil Sdidene (Draa Rkik)	5	<u>.</u>	1.365	1.365	1,760	160'6	1,815	1,760	19	1,710	4,940		1,932			16,278	41,333
5	0 Tizi	ŝ	<u>c</u>	5,515	515,5	7,120	36,730	7,335	7,120	1	0:630	20,020		2.813			60,534	162,791
\$	0 Aghbalou	2	0	8.430	8,430	10,860		11,212	10.860	118	10,620	30,680		11,952			101,532	256.578
56	0 Ait Hsain	4	0.1	345	1,345	1,700		1.789	1,700	61	1.710	4,940		016.1			15,630	40,407
%	() Ait Boubker	5	õ	:440	1,440	1,840	065'6	5161	1,840	20	1.800	5,200		2,035			16,848	43,234
	0 Tazatourt	35		3,195	3,195	4,080	21,279	4,249	4.080	45	4,050	11.700		4,536			37,950	96,799
<u>x</u>	0 Tamsoulte	5	ç	3,160	3,160	4,0%0		4.203	4,080	4	3,960	11,440		4,473			37,860	95,877
\$	0 Tizgui	\$	<u>.</u>	4,655	4,655	000*9		6,191	6,000	65	5,850	16,900		6.594		85,542	56,154	141,696
8	0 Ait Tirghit		<u>c</u> .	4,600	009 '	5,960		6,118	2,960	2	1 S.760	16,640		6.511			55,824	140,284
i i	0 Tachbibt Kabli	7	0.1	2,915	2.915	3,700		3,877	3,700	41	3,690	10,660		4,134			34,470	88,102
102	0 Tachbibt Echatoui	E	0.1	2.915	2,915	3,700	19,414	3.877	3,700	41	3,690	10,660		4.134		53,632	34,470	88,102
101	0 Asgoune	E.	<u>;</u>	2,840	2,840	3,620		777	3,620	40	3,600	10.400		4,031			33,900	86,201
5	0 Ait Aamara Loued	ž	0.1	7,625	7,625	9,780		10,141	0.780	107	0.630	27,820		10,815		_	91,194	231,506
202	0 Lakaarna	7	0.1	2,730	2,730	3,540		3,631	3,540	38	3,420	(188'6		3,865		50,138	33,240	83.278
<u>.</u>	1 Tarast	4	0.	4,465	4,465	5,720		5,938	5,720	63	5,670	16,380		6.345		_1_	52,866	135,189
113	2 Assaka	4	2	4.370	4.370	5,520		5,812	5,520	5	5,580	16.120		6,214		80.629	51,576	132,205
117	0 Ansa	83	<u>,</u>	5,700	8,275	7,280	55.112	900'11	7,280	8	7,200	20,800	7,056	10,140		129,747	67,764	112,701
			Ŧ	505		2.320	18.322	3.671	2.320	27	2.430	2.020		3.382	_		20,922	64,201
	Photovoitaics (01a)	32 3		80 292,050	336.96	375,1202	2,244,154	448,157	375,120	4,094	368,460	1,064,440	361,604	450.033	495,036	5.807.004	3,496,920	9.303.924

Attachment-2A (2/4)

		н н	Peak	capacit Inst Cost	Inst [(is:C	Dietr/Tr	Connecti		Suncryis Conting		Fixed cost Flic	Fuel	Variable	
o Z	Douar		Capaci	Capaci y peak ail		Turbinc/		14 11010	on cost	Tax]			** 2000			(
		2002	N.	x1.2	capa Gener		1001		USSAH	,			ar 2000	1000	- Cost	I otal Cost
									H.H/\$SU							
			kΨ	××	k₩	kw US\$/vill	US\$/vill US\$/vill	USS/vill	260	20%	10%	10%	_	USS/kWh		
) ន	0 Agouns	110	8.9	10.7	E	9,424	3,165	16,080	28,600	9,569	5,727	6,300	78,865	0.20	51,904	130,769
47	0 Lemdinat	168	13.4	16.1	14	9,623	3,165	27,365	43,680	14,842	8,383	9,222	116,280	0.20	64,019	180,299
48	0 Tnirt	242		23.0	22	11,724	3,165	38,870	62,920	20,991	11,668	12,835	162,173	0.18	75,455	237,628
20	0 Ansmrou	168	13.3	16.0	14	9,623	3,165	26,910	43,680	14,751	8,338	9,172	115,639	0.20	63,888	179,527
	0 Toulkine	200		19.1	14	9,623	3,165	32,825	52,000	17,598	9,761	10,737	135,709	0.20	70,935	206,644
54	0 Douzrou	231		21.8	3	11,724	3,165	36,855	60,060	20,016	11,180	12,298	155,298	0.18	73,133	228,431
_	0 Ait Outmane	158	12.5		П	9,424	3,165	25,610	41,080	13,971	7,928	8,721	109,899	0.20	61,731	171.630
59	0 Ait Smil	158		15.2	14	9,623	3,165	26,520	41,0S0	14,153	8,039		111,423	0.20	62,035	173,458
	0 Ait Bourd	105			8	9,224	3,165	15,960		9,285	5,565		76,620	0.21	51,875	128,495
<u>8</u>	0 Ait Bouzid	125		11.9	9.6	9,224	3,165	18,360	32,500	10,805	6,325	6,957	87,336	0.21	56,066	143,402
114	0 Abadou	116	9.6	11.5	9.6	9,224	3,165	18,480	30,160	10,361	6,103		84,206	0.21	54,776	138,982
119 (0 Ait Atmane	109	8.9	10.7	8	9,224	3,165	17,400	28,340	9,781	5,813	6,394	80,117	0.21	53,322	133,439
	Diesel total	11890		151 181 17 157 117 684	157	117 684	37 980	301 225	1 401 400	37 9801 301 335 491 4001 166 123	04 830	104 212	94 8301 104 31311 313 565		739 142	739 142 2 052 707

0

(3/4)

. .

		74C	090	100	20	510	750	00	030
Total		544,840	575,960	1,042.5	S08,120	1,684,610	968,750	760,190	6.385.030
Variable cost Total(30year s)		62,280	65,400	85,580	76,960	121,040	99,720	82,980	593,960
Supervixe contingen Fixed cost at 7 rice cy 2000 s	10% USS/Village	482,560	510,560	956,980	731,160	1,563,570	869.030	677,210	S.791.070
contingen F cy 2	10%01	39,160	41,360	78,430	60,060	128,480	70,730	55,770	473,990
Supervixe r foc	10%	35,600	37,600	71,300	54,600	116,801	64.300	50,700	430,902
Tax	20%	51,800	55,600	115,400	84,600	194,000	91,000	72.200	664,600
Distr/Tran , s cost	US\$/Villa	39,000	46,000	176,000	118,000	353,000	116,000	89,000	937,000
Civil Cost Distr/Tran (Foreign) s cost	US\$/vill	25,000	26,000	47,000	35,000	74,000	38,000	31,000	276,000
Civil cost (domestic)	US\$/vill	220,000	232,000	401,000	305,000	617.000	339,000	272,000	2.386.000
Cost Turbine/G ener	(liv/SSD	72,000	72.000	89,000	88,000	124,000	150.000	115,000	710.000
	kw 1	201	16	30	20	65	26	15	179
capaci Instal ty l pcak capac x1.5 ity	k W	5.0	8. 4	25.4	16.1	52.6	20.3	13.1	141
Peak c Capacit t y	kΨ	3.3	5.6	16.9	10.7	35.1	13.5	8.7	94
н.н 2000 С		42	20	206	130	431	168	111	1.158
Douar		Alla Oumzri	Id Ssior	Arg	Anfli	Inzaine	Adardour	Tidisi	MicroHydro total

Village-wise Total Cost of Micro-hydropower Generation

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Village-wise Monthly Payment of PV Generation (1/2)

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Z																				•	
			Initial Invest	Invest 10	00%		Initial In	Initial Invest 75%	%		Initial Invest 50%	st 50%			Initial Invest 25%	st 2.5%		Initi	Initial Invest 0%	%	
			mounty payment Discount Rate	payment t Rate	Mounty payment per IA.H Discount Rate		Moonly payment per H.H Discount Rate	ayment Rate	ы. н. н.	δ	Mothly payment per H.A Discount Rate	ment pe ste	г г	ΣĊ	Mothly payment per H.H Disenunt Rate	ncat pe	г Н.Н	Not Not	Mothly payment per H.H Discount Pate	it per H.	T
		•	<u>%0</u>	9410	6%	9%6	%0	3%	6'%	4%	0%		6%	<i>9/a</i> 6	ر مر		2.0%	9.% 0%	%E 3%	950	%.6
	0 Tizi Oussem	76	13.4	15.3	18.2	21.4	11.2	12.6	14.7	17.0	0.6	9.8 1	11.2 1	2.7	6.8			8.4 4.6		4.1	4
	0 Id Aissa	44	14.1	16.1	19.2	22.5	11.7	13.2	15.5	18.0	9.4	10.3 1	11.8 1	3.4						4	4.2
с. С	0 Tassa Ouirgane	58	13.1	15.1	17.9	21.0	11.0	12.4	14.5	16.7	S.S	9.6	11.0 1	2.5				-		4.1	4.0
4	0 lgrem	8	14.1	16.2	19.4	22.7	8.11	13.3	15.6	18.1	9.5	10.3 1	11.8]	3.4	7.1 7				-	4 0	4.2
s S	0 Aghella	67	13.0	14.9	17.7	20.7	10.9	12.2	14.3	16.5		9.5 1(10.9 1	12.3	_					4	6
	0 Ikiss	71	12.9	14.8	17.6	20.6	10.8	12.1	14.2	16,4	8.7	9.5 11	10.8 1	12.2						4	6
	0 Tinerhouhrine	ξ	14,0	16.1	19.2	22.5	11.7	13,2	15.5	17.9		-	•	13.3						4	4
	0 Tacheddirt	63	13.8	15.8	18.9	22.1	11.5	13.0	15.2	17.6	-	-	1.6 1	3.1						42	4
-	0 Sqour	4	11.5	13.0	15.3	17,8	9.8	10.8	12.5	14.3	8.0	8.6	9.7 1	10.9		6.4	6.9	7.4 4.		4.1	4.0
-		ដ	11,4	12.9	15.2	17.6	9.7	10.7	12.4 7	14.2	8.0	<u>8.6</u>	9.6	10.8	6.3	6,4				4.1	4.0
-	0 Tamaterte	42	14.3	16.4	19.5	22.8	11.9	13.4	15.7	18.2		10.5 . 1:	12.0 1	3.6		2.5				4.4	4.3
22 :	Awin Mazouz	6	11.5	17.0	15.2	17.7	9.7	10.8	12.5	14.3	S. 0	8.6	9.7 1	10.8	6.3 (-		4.1	4.0
22 22	2 Bouchiha Bon Omar	69	11.6	13.1	15.4	17.9	9.8	10.9	12.6	14.4		8.7	9.8	10.9		6.4				4.1	4.0
	Bel Abbas	147	4,11	12.9	15.1	17.5	9.7	10,7	12.3	14.1	7.9	8.5	9.6 1	10.7	6.2	6.4	6.8	7.3 4.	4.5 4.2	4.1	4
_	0 Derb Chem's	S	11.5	12.9	15.2	17.7	9.7	10.8	-	14.2		8.6	9.7	:0.8		6.4	. 6.9	7.4 4	4.5 4.2	4.1	4.0
_		4	ς. Γ	12.8	15.0	17.4	9.6	10.6	12.3	14.0			9.5 1	10.7		6.3	6.S ,	7.3 4	4.5 4.2	4.1	3.9
_	U All Hmad	2	4	12.8	15.1	17.5	9.6	10.7	_	14.1			-	10.7			3*9			4.1	4.0
-	0 1 12gui	3	11.4	12.8	15.1	17.5	9.6	10.7		14.1		8.5	9.6 1	10.7		6.3	6.8	7.3 4.	4.5 4.2	4.1	4.0
-	0 Anermi	8	4.51	15.3	18.3	21.4	11.2	12.6		17.0		9.8	11.2	12.7		7.0	7.7	8.3 4.	4.5 4.2	4.1	4.0
	0 1 kiat Art Ihia	R I	12.8	14.7	17.4	20.4	10.7	12.0		16.3				12.2		6.8	7.4	8.0 4	4.5 4.1	4.0	3.9
-	U Adghouss	3	13.2	15.1	18.0	21.0	0.11	12.4		16.8			1.0.11	12.5		6.9	7.6	8.3 4	4.5 4.2	4.1	4.0
) () ()	U I agadırt	8	12.7	14.5	17.3	20.2	10.6	9.11		16.1		9.3 11		12.0		6.7	7.3	8.0 4.	4.4 4.1	4.0	5
		g (13.0	14.9	17.7	20.8	10.9	12.2		16.6	S.S	-		12.4			7.5	8.2 4.	4.5 4.2	4.1	4.0
	0 Anthoune	83	13.0	6.41	17.7	20	10.9	12.2	-	16.5	s.7			12.3				8.1 4		4.1	4.0
-		\$ 3	0.51	14.9	17.8	20.8	10.9	12.2		16.6	8.8 8.8		•	12.4			7.5	8.2 4.	4.5 4.2	4.1	4.0
5 (5 (0 Aguenze	17		13.2	15.5	18.0	6°6	0.11	-	14.5	8.1 8.1	8.7		0.11			.0.7	7.5 4.		4	4.0
	U litt Baragna	5	5.11	12.7	15.0	17.4	3 .6	10.6		14.0	7.9		9.5	10.6		6.3	6.8	7.3 4.	4.5 4.2	4.0	с. Г
-	U Agadir Baragha	4	с I .	12.8	15.0	17.4	5.6	10.6	12.3	14.0	6.1		9.5 1	10.7		6.3	6.8	7.3	4.5 4.2	4.1	30
-		12	11.4	12.9	15.1	17.6	9.7	10.7		14.2	7.9		9.6	10.8		6.3	6.8		4.5 4.2	4.1	3.9
	0 Tadchert	ក	11.4	12.9	15.1	17.6	9.7	10.7	12.4	14.2	8.0	8.5	9.6 1	10.8	6.2	6.4	6'9	7.4 4.	4.5 4.2	4	4
	0 Tamsoult	ν,	0.11	12.4	14.6	16.9	4.6	10.4	12.0	13.7	7.7		9.3 1	10.4		6.2	6.7	7.2 4	4.5 4.1	4.0	3.9
	0 Uar Jamaa Ait Ali	8		13.1	15.4	17.9	9.8	10.9	12.6	14.4	8.1	5	-	10.9	ŝ		6.9	7.5 4	4.6 4.2	4.1	4.0
	0 Agadir Ait Brahim	5		12.7	14.9	17.3	9.5	10.6	·	14.0	7.8		•	10.6		6.3	6.8	7.3 4	4.5 4.2	4.0	3.9
	0 Iouraghan	<u></u>	ሳ : : :	12.9	15.2	7.7	5	10.8	12.4	14.2	3.0	8.6	9.7 1	10.8	6.3			7.4 4	4.5 4.2	4.1	4
20	olimiki	2	[]	12.8	C Y	1	2														

Attachment-2B (1/4)

Village-wise Monthly Payment of PV Generation (2/2)

4 5 3 5					:																
			Initial I Mothly p	Invest 100% payment per H.H	0% pcr H.H		Initial Invest 75% Mothly payment per H.H	vest 759 vment p	6 er X.H	~ > (Initial Invest 50% Mothly payment per H.H	st 50% nent per	н.н	Initi Moth	Initial Invest 25% Mothly payment per H.H	15% A per H.I		Initial Invest ()?6 Mothly payment per H.H	nvcst () ⁴ avment	6 per H.F	
		ΞL.	Discount kate	3%	6% 2	0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Discount Kate	3%	69%	<u>1</u> **	Discount Kate	alc 3% 6%	%h %	000	Discount Rate	4%4	20	Discount Rate	Rate	7.7	200
	0 Ifit Ait Alla	23	11.7	13.2	15.6	18.1	6.6	11.0	Γ	4.6			Γ	0 6.4	6.5	7.0	7.5	4.6	4	4	4 0
	0 Boukhelf	68	11.5	13.0	15.3	17.8	9.8	10.8	12.5 1	4.3		8.6 9.7	7 10.9	9 6.3	1 6.4	6.9	7.4	4.5	4	4.1	4.0
	0 Addar Ait Ali	ន	12.0	13.6	16.0	18.6	10.2	11.3	~	5.0		9.0 10.1	1 11.4		6.7	7.2	7.8	47	4,4	Ĵ	4.1
	0 Ait M'Barck	Ε	11.4	12.9	15.1	17.6	9.7	10.7	12.4 1	4.2		8.5 9.6	6 10.8	8 6.2	6.4	6.9	ب ۲	4.5	4	4.1	4.0
	0 Agadir Ait Bourd	63	1.12	12.6	14.8	12.1	9.5	10.5	12.1	3.6	7.S &	8.4 9.4	4 10.5	5 6.1	6.2	6.7	ci C	4.4	4.1	4.0	3.9
-	0 Afella Quassif	26	10.9	12.3	4.5	16.8	9.3	10.3	_	3.6		8.2 9.2	2 10.3	3 6.0	6.1	6.6	7.1	4,4	4,1	4.0	6
	O Afella Ighil	2	11.8	13,4	15.7	18.2	10.0		12.8 1/	4.7		8.9 10.0	0 11.2	2 6.5	6.6	7.1	7.6	4.7	4,4	4 (j	4
	i Anfeg	9	11.4	12.9	15.1	17.5	9.7	10.7	12.4 1	1.4	7.9 8	8.5 9.6	6 10.7	7 6.2	6.4	6.8	7.4	4.5	4	4	4.0
S	2 Aguersouak	21	11.7	13.2	15.5	18.0	9.9	11.0	12.7 1	4.5		8.7 9.5	S 11.0	0 6.4	6.5	7.0	7.5	4.6	4.3	4	4.0
	1 Oumast	77	11.3	12.5	15.0	17.5	9.6	10.6	12.3 14	4.)	7.9	8.5 9.6	6 10.7	7 6.2	6.3	6.8	7.7	4.5	4	4.1	3.9
	2 Ait Zitoun	17	10.9	12.3	4.4	16.7	9.3	10.2	11.8 11	3.5		8.2 9.2	2 10.3	3 6.0	6.1	6.6	7.1	4.4	*	4.0	3.8
	0 Tagadirt (Ait Bouimzgan	21	11.0	12.5	14.6	17.0	9.4	10.4	12.0 13	3.7		8.3 9.3	3 10.4	4 6.1	6.2	6.7	12	4.4	4	4.0	<u>е</u> .
87	l Zaouit	<u>~</u>	12.1	13.6	16.0	18.6	10.2	- 011 11.0	13.1 11	15.0	8.4	9.0 10.2	2 11.4	4 6.6	6.7	7.2	7.8	8 7	4.4	4.3	4 12
	2 Izalaghan (Dar Brahim O	<u> </u>	11.8	13.3	15.6	18.2	10.0	11.0	12.8 14	4.6		8.8 9.9	0 11.1		1 6.5	7.0	7.6	4.6	4.5	4 Lj	4.0
	0 Tigouder (Ben said, Zyou	52	11.6	13.1	15.4	17.9	9.9	10.9	-	4.4		8.7 9.8	8 11.0		5.6.5	7.0	7.5	4.6	4	4,2	4.0
	0 Amezi	8°.	11.5	12.9	15.2	17.7	97	10.8	12.4 1/	4.2		8.6 9.7	7 10.8		5.4	6.9	7.4	4.S	4.2	4.1	4.0
	() Agouni		11.5	12.9	15.2	17.7	9.7	10.8	12.4 1/	4.2	8.0	8.6 9.7	7 10.8	8 6.3	5.6.4	6.9	7.4	4.S	4.2	4.1	4.0
	0 Chaabat Tarik (Talet NTg	20	11.6	11.1	15.4	6.71	9.8	10.9	-	4.4		8.7 9.8	8.01 8		5 G.4	6.9	2.5	4 S	4 11	.4	4.0
	0]lghil Sdidene (Draa Rkik)	2	11.5	0.61	15.3	17.7	9.7	10.8	12.5 1-	4.3		8.6 9.7	7 10.8		5.0.4	6.9	7.4	4.5	4	4.1	4.0
	0 Tizi	g	11.3	12.7	15.0	17.4	9.6	10.6	- 221 24	4.0		8.5 9.5	5 10.7		6.3	6.8	7.3	4.5	4 Li	4.1	3.9
	0 Aghbalou	3	11.4	12.8	15.1	17.5	9.7	10.7	_	4.1			6 10.7		6.4	6.8	7.4	4.S	4.2	4.1	4.0
	0 Ait Hsain	4	12.0	13.6	16.0	18.7	10.2	11.3	13.1 15	15.0		9.0 10.1	11.4	4 6.5	6.7	7.2	7.7	4.7	4.3	4 1	4.1
	0 Ait Boubker	5	12.0	13.6	16.0	18.6	10.2	11.3		5.0	-	1.01 0.9		_	6.7	7.2	7.7	4.7	4.4	4 2	4
	() Tazatouri	2	11.5	13.0	15.3	17.8	9.8	10.8		4 3		8.6 9.7			6.4	6.9	7.4	4.5	4.2	4.1	4.0
88	()]] amsoulte	35	11.4	12.9	15.2	17.6	6.7	10.7	-	4.2	-	8.5 9.6				6.9	7.4	4 V	4.2	4.1	4.0
	0 1 (zgu)	8	4.11	12.8	1.5.1	17.5	9.6	10.7	-	4						6.8	1.1	4	4.4	4	4.0
	0 Ait Tirghit	22	11.2	12.7	14.9	17.3	9.5	10.6		4.0					6.3	6.8	7.3	4.S	4	4.1	3.9
	U Jachbiot Kabli	5	x.11	13.4	15.8	18.3	10.0	1.1		4.8	ч	8.9 10.0	0 11.2	2 6.4	6.6	7.1	7.6	4.6	4.J	4	4
	0 Tachbibt Echatoui	2	11.8	13.4	15.8	1X.3	10.0		_	8.4		3.9 10.0	0 11.2		6-6-6	7.1	7.6	4.6	4.3	4 Li	4
	0) Asgoune	31	11.6	13.1	15.4	17.9	9.8	10.9	~	4.4	8.1	5.7 9.8	8 10.9	9	2.6.5	6.9	7.5	4.6	4.2	4.1	4.0
	U Ait Aamara Loued	*	<u>.11</u>	13.0	15.3	17.7	6.7	10.8		14.3		8.6 9.7	7 10.9			6.9	7.4	4.5	4.2	4.1	4.0
	U Lakarna	5	7.11	12.7	14.9	17.2	9.5	10.5		3.9						6.8		4 <u>5</u>	4.2	4.1	с. г.
	1) Tarast	44	12.0	13.6	16.0	18.5	10.2	5.3	~	4 0						7.2	7.7	4.7	4.4	4	4.1
•	Z Assaka	4	11.7	11.1		18.1	6.6	0.11	12.7 14	4.6		8.8 9.9				7.0	7.5	4.6	4.3	4.1	4.0
122	0 Ansa 0 Francis	<u>g c</u>	15.3	15.2		21.2		23	 		م ہ	9.7 II.				7.6	£	4.6	4	4.]	4.0
				191	1		-	4.4	17.4 2(20.21	10.4	1.5 13.2	2 15.0	0 7.8	ž	0.X	5.7	5.1	4.8	4.6	4

Attachment-2B (2/4)

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Village-wise Monthly Payment of Diesel Generation

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No.	o. Douar		Dicsel	Gencra	tion life	Dicsel Generation life 10 years															
		Initial	Initial Invest 100%	100%		Initial	Invest 75%	5%		Initial Invest 50%	nvest 5	20% 0		Initial	Initial Invect 25%	50%		Initial Invect 0%	nvect (at,	
		Mothly	' payme	Mothly payment per H.H	Н.Н	Mothly	payment per H.H	it per h		Mothly payment per H.H	aymen	t per H		Mothly payment per H.H	aymen	t per H.	н	Mothly payment per	aymcn	t per H.H	щ
		Discout	Discount Rate			Discoun	nt Rate			Discount Rate	Rate			Discount Rate	: Rate	•		Discount Rate	t Rate	-	
		%0	3%	6%	%6	240	3%	5%	%6	%0	3%	6%	%6	%0	3%	6%	926	%0	3%	6%	226
33	0 Agouns	9.2	10.2	11.3	12.4	7.8	8.6	9.4	10.2	6.4	6.9	7.5	8.1	5.1	5.3	5.6	5.9	3.7	3.7	3.7	С. С
4	<u> </u>	8.3	9.3	F-4	11.4	7.0	7.7	8.5	9.3	5.6	6.1	6.6	7.2	4.3	4.S	4.8	5.1	3.0	3.0	3.0	3.0
48	0 Tnirt	7.6	8.6 8		10.6	6.3	7.0	7.8	8.6	5.0	5.5	6.0	6.5	3.7	4.0	4.2	4.5	2.4	2.4	2.4	2.4
50	0 Ansmrou	8.3 	9.2		11.4	7.0	7.7	8.4	9.3	5.6	6.1	6.6	7.2	4.3	4.S	4 8	5.1	3.0	3.0	3.0	Э.O
52	0	8.0	0.6	10.0	11.1	6.7	7.4	8.2	0.6	5.4	5.9	6.4	6.9	4.1	4.3 6	4.6	4.8	2.8	2.8	2.8	2.8
54	0	7.7	8.6		10.7	6.4	7.1	7.8	8.6	5.1	5.5	6.0	6.6	3.8	4.0	4.3	4.5	2.5	2.5	2.5	2.5
55	0	8.5	9.4		11.6	7.1	7.8	8.6	9.4	5.8	6.2	6.8	7.3	4.4	4.6	4.9	5.2	3.0	3.0	Э.1	3.1
59	0	8.5 2.8	9.5	•	11.7	7.2	7.9	8.7	9.5	5.8	6.3	6.8	7.4	4,4	4.7	4.9	5.2	3.1	3.1	3.1	3.1
76		9.5	10.5		12.8	8.1	8.8 8.8	9.7	10.5	6.7	7.2	7.7	8.3	5.3	5.5	5.8	6.1	3.8	3.8	3.8	3.9
84	0	e.8	6.6	10.9	12.0	7.6	8.3	9.1	6.6	6.2	6.7	7.2	7.8	4.8	5.1	5.3	5.6	3.5	3.5 2	З. С	3.5
114	-	9.3	10.3	11.4	12.5	7.9	8,6	9.5	10.3	6.5	7.0	7.5	S.1	5.1	5.3	5.6	5.9	3.7	3.7	3.7	3.7
119	ੇ	9.S	10.5	11.6	12.8	8.1	8.8	9.7	10.5	6.7	7.2	7.7	8.3	5.2	5.5	5.3	6.1	3.8	3.8	3.8	3.8
	Dicsel total	8.4	9.4	10.4	11.5	7.1	7.8	8.6	9.4	5.7	6.2	6.7	7.3	44	4.6	4 0	5.2	3.0	3.0	3.0	<u>ال</u>
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Attachment-28 (3/4)

Village-wise Monthly Payment of Micro-hydropower Generation	

H.H Initial Invest 100% Initial Invest 75% Initial Invest 50% Initial Invest 25% Initial Invest 00% Mothly payment per H.H Nothly payment per H.H Discount Rate Discount Rate Discount Rate Mothly payment per H.H Mothly payment per H.H 70 19.1 28.8 41.1 55.4 14.9 22.2 31.4 42.1 10.6 15.5 21.7 28.9 6% 9% 0% 3% 6% 9% 0% 3% 6% 9% 0% 3% 6% 9% 0% 3% 6% 9% 0% 3% 6% 9% 0% 3% 6% 9% 0% 3% 6% 9% 0% 0% 3% 6% 9% 0% 3% 6% 9% 0% 3% 6% 9% 0% 3% 6% 9% 0% 3% 6% 9% 10% 10% 10% </th <th></th> <th></th> <th></th> <th></th> <th></th> <th>r</th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th>**.7</th>						r							**.7
H.H 2000 Initial Invest 100% Initial Invest 75% Initial Invest 50% Initial Invest 25% Mothly payment per H.H Mothly payment per H.H Mothly payment per H.H Mothly payment per H.H Mothly payment per H.H 0% 3% 6% 9% 0% 3% 6% 9% 0% 3% 6% 9% 0% 3% 6% 9% 0% 3% 6% 9% 0% 3% 6% 9% 0% 3% 6% 9% 0% 3% 6% 9% 0% 3% 6% 9% 0% 3% 6% 9% 0% 3% 6% 9% 0% 3% 6% 9% 0% 3% 5% 10 15% 10.0 15% 10.0 15% 10.0 15% 10.0 15% 10.0 15% 10.0 15% 10.0 15% 10.0 15% 10.0 15% 10.0 15% 10.0 15% 10.0 15% 10.0 <			~ ~!		3%6	3.6	2.3	0.1	2. S	0.7	4	1.S	1.5
H.H 2000 Initial Invest 100% Initial Invest 75% Initial Invest 50% Initial Invest 25% Mothly payment per H.H Mothly payment per H.H Mothly payment per H.H Mothly payment per H.H Mothly payment per H.H 0% 3% 6% 9% 0% 3% 6% 9% 0% 3% 6% 9% 0% 3% 6% 9% 0% 3% 6% 9% 0% 3% 6% 9% 0% 3% 6% 9% 0% 3% 6% 9% 0% 3% 6% 9% 0% 3% 6% 9% 0% 3% 6% 9% 0% 3% 6% 9% 0% 3% 5% 10 15% 10.0 15% 10.0 15% 10.0 15% 10.0 15% 10.0 15% 10.0 15% 10.0 15% 10.0 15% 10.0 15% 10.0 15% 10.0 15% 10.0 15% 10.0 <		%	per H.		0%0	3.6	2.3	1.0	1.4	0.7	1.4	1.8	1.2
H.H 2000 Initial Invest 100% Initial Invest 75% Initial Invest 50% Initial Invest 25% Mothly payment per H.H Mothly payment per H.H Mothly payment per H.H Mothly payment per H.H Mothly payment per H.H 0% 3% 6% 9% 0% 3% 6% 9% 0% 3% 6% 9% 0% 3% 6% 9% 0% 3% 6% 9% 0% 3% 6% 9% 0% 3% 6% 9% 0% 3% 6% 9% 0% 3% 6% 9% 0% 3% 6% 9% 0% 3% 6% 9% 0% 3% 6% 9% 0% 3% 5% 10 15% 10.0 15% 10.0 15% 10.0 15% 10.0 15% 10.0 15% 10.0 15% 10.0 15% 10.0 15% 10.0 15% 10.0 15% 10.0 15% 10.0 15% 10.0 <		vest 09	ayment	Rate	3%	3.5	2.2	1.0	4.1	0.7	1.4	1.8	1.2
H.H 2000 Initial Invest 100% Initial Invest 75% Initial Invest 50% Initial Invest 25% Mothly payment per H.H Mothly payment per H.H Mothly payment per H.H Mothly payment per H.H Mothly payment per H.H 0% 3% 6% 9% 0% 3% 6% 9% 0% 3% 6% 9% 0% 3% 6% 9% 0% 3% 6% 9% 0% 3% 6% 9% 0% 3% 6% 9% 0% 3% 6% 9% 0% 3% 6% 9% 0% 3% 6% 9% 0% 3% 6% 9% 0% 3% 6% 9% 0% 3% 5% 10 15% 10.0 15% 10.0 15% 10.0 15% 10.0 15% 10.0 15% 10.0 15% 10.0 15% 10.0 15% 10.0 15% 10.0 15% 10.0 15% 10.0 15% 10.0 <		initial Ir	Aothly p	Discount	0%0	3.4	2.2	1.0	1.4	0.7	4.1	1.7	1.2
H.H Initial Invest 100% Initial Invest 75% Initial Invest 50% 2000 Mothly payment per H.H Mothly payment per H.H Mothly payment per H.H Mothly payment per H.H Mothly payment per H.H Mothly payment per H.H Mothly payment per H.H Mothly payment per H.H Mothly payment per H.H Mothly payment per H.H Mothly payment per H.H 0% 3% 6% 9% 0% 3% 6% 9% 70 19.1 55.4 14.9 22.2 31.4 42.1 10.6 15.5 21.7 28.9 70 19.1 28.8 41.1 55.4 14.9 22.2 31.4 42.1 10.6 15.5 21.7 28.9 70 19.1 17.9 25.6 34.7 9.0 13.6 17.8 17.8 130 14.4 21.8 31.2 42.2 11.1 16.7 23.6 6.8 9.4 10.8 10.3 10.8 10.8 10.3 10.3 10.8 10.3 10.3 <td></td> <td></td> <td></td> <td></td> <td>9%6</td> <td>24.4</td> <td>15.6</td> <td>9.4</td> <td>11.6</td> <td>7.3</td> <td>10.8</td> <td>12.9</td> <td>10.3</td>					9%6	24.4	15.6	9.4	11.6	7.3	10.8	12.9	10.3
H.H Initial Invest 100% Initial Invest 75% Initial Invest 50% 2000 Mothly payment per H.H Mothly payment per H.H Mothly payment per H.H Mothly payment per H.H Mothly payment per H.H Mothly payment per H.H Mothly payment per H.H Mothly payment per H.H Mothly payment per H.H Mothly payment per H.H Mothly payment per H.H 0% 3% 6% 9% 0% 3% 6% 9% 70 19.1 55.4 14.9 22.2 31.4 42.1 10.6 15.5 21.7 28.9 70 19.1 28.8 41.1 55.4 14.9 22.2 31.4 42.1 10.6 15.5 21.7 28.9 70 19.1 17.9 25.6 34.7 9.0 13.6 17.8 17.8 130 14.4 21.8 31.2 42.2 11.1 16.7 23.6 6.8 9.4 10.8 10.3 10.8 10.8 10.3 10.3 10.8 10.3 10.3 <td></td> <td>%</td> <td>per h.r</td> <td></td> <td>6%0</td> <td>18.7</td> <td>12.0</td> <td>7.1</td> <td>S.9</td> <td>5.5</td> <td>8.2</td> <td>9.9</td> <td>7.9</td>		%	per h.r		6%0	18.7	12.0	7.1	S.9	5.5	8.2	9.9	7.9
H.H Initial Invest 100% Initial Invest 75% Initial Invest 50% 2000 Mothly payment per H.H Mothly payment per H.H Mothly payment per H.H Mothly payment per H.H Mothly payment per H.H Mothly payment per H.H Mothly payment per H.H Mothly payment per H.H Mothly payment per H.H Mothly payment per H.H Mothly payment per H.H 0% 3% 6% 9% 0% 3% 6% 9% 70 19.1 55.4 14.9 22.2 31.4 42.1 10.6 15.5 21.7 28.9 70 19.1 28.8 41.1 55.4 14.9 22.2 31.4 42.1 10.6 15.5 21.7 28.9 70 19.1 17.9 25.6 34.7 9.0 13.6 17.8 17.8 130 14.4 21.8 31.2 42.2 11.1 16.7 23.6 6.8 9.4 10.8 10.3 10.8 10.8 10.3 10.3 10.8 10.3 10.3 <td></td> <td>rvest 25</td> <td>ayment</td> <td>Rate</td> <td>3%</td> <td>13.9</td> <td>S.9</td> <td>5.2</td> <td>6.5</td> <td>4.0</td> <td>6.1</td> <td>7.3</td> <td>5.8</td>		rvest 25	ayment	Rate	3%	13.9	S.9	5.2	6.5	4.0	6.1	7.3	5.8
H.H Initial Invest 100% Initial Invest 75% Initial Invest 50% 2000 Mothly payment per H.H Mothly payment per H.H Mothly payment per H.H Mothly payment per H.H Mothly payment per H.H Mothly payment per H.H Mothly payment per H.H Mothly payment per H.H Mothly payment per H.H Mothly payment per H.H Mothly payment per H.H 0% 3% 6% 9% 0% 3% 6% 9% 70 19.1 55.4 14.9 22.2 31.4 42.1 10.6 15.5 21.7 28.9 70 19.1 28.8 41.1 55.4 14.9 22.2 31.4 42.1 10.6 15.5 21.7 28.9 70 19.1 17.9 25.6 34.7 9.0 13.6 17.8 17.8 130 14.4 21.8 31.2 42.2 11.1 16.7 23.6 6.8 9.4 10.8 10.3 10.8 10.8 10.3 10.3 10.8 10.3 10.3 <td></td> <td>Initial Ir</td> <td>Aothly p</td> <td>Discount</td> <td>%0</td> <td>10.0</td> <td>6.4</td> <td>3.6</td> <td>4.6</td> <td>2.8</td> <td>4.3</td> <td>5.3</td> <td>4.1</td>		Initial Ir	Aothly p	Discount	%0	10.0	6.4	3.6	4.6	2.8	4.3	5.3	4.1
H.H Initial Invest 100% Initial Invest 75% 2000 Initial Invest 100% Initial Invest 75% Mothly payment per H.H Mothly payment per H.H Discount Rate Discount Rate 0% 3% 6% 9% 70 19.1 23.2 34.6 49.0 65.8 70 19.1 28.8 41.1 55.4 14.9 22.2 31.4 42.1 70 19.1 28.8 41.1 55.4 14.9 22.2 31.4 42.1 70 19.1 28.8 41.1 55.4 14.9 22.2 31.4 42.1 206 11.7 17.9 25.6 34.7 9.0 13.6 19.5 26.3 130 14.4 21.8 31.2 42.2 11.1 16.7 23.8 32.0 431 9.1 13.9 9.9 27.0 7.0 10.6 15.1 20.5 130 14.4 21.8 31.2 42.2 11.1 16.7 23.6 54.2 168 13				I	9%6	45.1	28.9	17.8	21.8	13.9	20.1	24.0	19.4
H.H Initial Invest 100% Initial Invest 75% 2000 Initial Invest 100% Initial Invest 75% Mothly payment per H.H Mothly payment per H.H Discount Rate Discount Rate 0% 3% 6% 9% 70 19.1 23.2 34.6 49.0 65.8 70 19.1 28.8 41.1 55.4 14.9 22.2 31.4 42.1 70 19.1 28.8 41.1 55.4 14.9 22.2 31.4 42.1 70 19.1 28.8 41.1 55.4 14.9 22.2 31.4 42.1 206 11.7 17.9 25.6 34.7 9.0 13.6 19.5 26.3 130 14.4 21.8 31.2 42.2 11.1 16.7 23.8 32.0 431 9.1 13.9 9.9 27.0 7.0 10.6 15.1 20.5 130 14.4 21.8 31.2 42.2 11.1 16.7 23.6 54.2 168 13)%	pcr H.I		6%	33.8	21.7	13.3	16.3	10.3	15.0	18.0	14.5
H.H Initial Invest 100% Initial Invest 75% 2000 Initial Invest 100% Initial Invest 75% Mothly payment per H.H Mothly payment per H.H Discount Rate Discount Rate 0% 3% 6% 9% 70 19.1 23.2 34.6 49.0 65.8 70 19.1 28.8 41.1 55.4 14.9 22.2 31.4 42.1 70 19.1 28.8 41.1 55.4 14.9 22.2 31.4 42.1 70 19.1 28.8 41.1 55.4 14.9 22.2 31.4 42.1 206 11.7 17.9 25.6 34.7 9.0 13.6 19.5 26.3 130 14.4 21.8 31.2 42.2 11.1 16.7 23.8 32.0 431 9.1 13.9 9.9 27.0 7.0 10.6 15.1 20.5 130 14.4 21.8 31.2 42.2 11.1 16.7 23.6 54.2 168 13		nvcst 5(ayment	Rate	3%	24.2	15.5	9.4	11.6	7.3	10.7	12.9	10.3
H.H Initial Invest 100% Initial Invest 75% 2000 Initial Invest 100% Initial Invest 75% Mothly payment per H.H Mothly payment per H.H Discount Rate Discount Rate 0% 3% 6% 9% 70 19.1 23.2 34.6 49.0 65.8 70 19.1 28.8 41.1 55.4 14.9 22.2 31.4 42.1 70 19.1 28.8 41.1 55.4 14.9 22.2 31.4 42.1 70 19.1 28.8 41.1 55.4 14.9 22.2 31.4 42.1 206 11.7 17.9 25.6 34.7 9.0 13.6 19.5 26.3 130 14.4 21.8 31.2 42.2 11.1 16.7 23.8 32.0 431 9.1 13.9 9.9 27.0 7.0 10.6 15.1 20.5 130 14.4 21.8 31.2 42.2 11.1 16.7 23.6 54.2 168 13		Initial I	Mothly p	Discount	%0	16.6	10.6	6.3	7.9	4.9	7.3	8.S	7.0
H.H 2000 2000 Mothly payment per H.H Mothly payment per H.H Mothly payment per H.H 20% 3% 6% 9% 42 29.8 45.0 64.1 86.5 70 19.1 28.8 41.1 55.4 70 19.1 28.8 41.1 55.4 11.7 17.9 25.6 34.7 130 14.4 21.8 31.2 42.2 431 9.1 15.9 19.9 27.0 168 15.3 20.1 28.7 38.7 111 15.8 23.9 34.2 46.1 115.8 17.8 19.4 277 35.7				I	9%6	65.8	42.1	26.3	32.0	20.5	29.4	35.0	28.4
H.H 2000 2000 Mothly payment per H.H Mothly payment per H.H Mothly payment per H.H 20% 3% 6% 9% 42 29.8 45.0 64.1 86.5 70 19.1 28.8 41.1 55.4 70 19.1 28.8 41.1 55.4 11.7 17.9 25.6 34.7 130 14.4 21.8 31.2 42.2 431 9.1 15.9 19.9 27.0 168 15.3 20.1 28.7 38.7 111 15.8 23.9 34.2 46.1 115.8 17.8 19.4 277 35.7	:	5%	per H.I		6%0	49.0	31.4	19.5	23.8	15.1	21.9	26.1	21.1
H.H 2000 2000 Mothly payment per H.H Mothly payment per H.H Mothly payment per H.H 20% 3% 6% 9% 42 29.8 45.0 64.1 86.5 70 19.1 28.8 41.1 55.4 70 19.1 28.8 41.1 55.4 11.7 17.9 25.6 34.7 130 14.4 21.8 31.2 42.2 431 9.1 15.9 19.9 27.0 168 15.3 20.1 28.7 38.7 111 15.8 23.9 34.2 46.1 115.8 17.8 19.4 277 35.7		invest 72	ayment	t Rate	3%	34.6	22.2	13.6	16.7	10.6	15.4	18.4	14.S
H.H 2000 2000 Mothly payment per H.H Mothly payment per H.H Mothly payment per H.H 20% 3% 6% 9% 42 29.8 45.0 64.1 86.5 70 19.1 28.8 41.1 55.4 70 19.1 28.8 41.1 55.4 11.7 17.9 25.6 34.7 130 14.4 21.8 31.2 42.2 431 9.1 15.9 19.9 27.0 168 15.3 20.1 28.7 38.7 111 15.8 23.9 34.2 46.1 115.8 17.8 19.4 277 35.7		Initial I	Mothly 7	Discount	0%0	23.2	14.9	9.0	11.1	7.0	10.3	12.3	9.9
H.H 2000 2000 42 70 130 130 111 111 111				i	946	86.5	55.4	34.7	42.2	27.0	38.7	46.1	37.5
H.H 2000 2000 42 70 130 130 111 111 111		00%	t per H.F		6%	64.1	41.1	25.6	31.2	19.9	28.7	34.2	27.7
H.H 2000 2000 42 70 130 130 111 111 111		Invest 1	payment	t Rate	3%	45.0	28.8	17.9	21.8	13.9	20.1	23.9	19.4
H.H 2000 2000 42 70 130 130 111 111 111		Initial I	Mothly	Discoun	0%0	29.8	19.1	11.7	14,4	9.1	13.3		12.8
	H.I 000			7	L	42	20	206	130	431	168	111	1.158
Douar Alla Oumzri Id Ssior Argi Anfii Inzaine Adardour Tidisi	Douar 2					Alla Oumzri	Id Ssior	Arg	Anfli	Inzaine	Adardour	Tidisi	MicroHydro total

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Village-wise Economic Analysis of PV (for Diesel) (1/2)

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Tizi Oussem Id Aissa														
ld Aissa	76	175,466	158.097	146,470	138,454		85,445		65,912	0.59	0.54	0.50	4	
	46	111.741	100,750	93,391	88.316	80,388	66,502	57,260	50,916	0.72	0.66	0.61	0.58	
I assa Uuirgane	58	131,691	118,594	109.828	103.784	88,619	73,294	63,098	56,101	0.67	0.62	0.57	0.54	
Igrem	28	68,446	61,732	57,238	54,138	64,633	53,682	46,393	41,389	0.94	0.87	0.81	0.76	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
Aghelia	67	150,219	135,234	125,204	118,289	94,783	78,857	68,257	60,984	0.63	0.58	0.55	0.52	
lkiss	71	158,011	142,205	131.627	124,335	97,995	81,489	70,506	62,969	0.62	0.57	0.54	0.51	
Tinerhouhrine	<u>5</u>	75,092	67,706	62.761	59,351	67,199	55,768	48,160	42,936	0.89	0.82	0.77	0.72	-4%
Tacheddirt	63	150,178	135,407	U)	118,699	92.714	77,117	66,735	59,610	0.62	0.57	0.53	0.50	
Sqour	47	93,003	82.371	75,254	70,348	79,926	66.183	57,038	50,760	0.86	0.80	0.76	0.72	
Amagdour	23	45,227	40,035	36,561	34,165	58,330	48,182	41,429	36,794	1.29	1.20	1.13	1.08	15%
Tamaterte	42	103,794	93,484	ų.	81,822	75,984	62,964	54,300	48,352	0.73	0.67	0.63	0.59	·
Awin Mazouz	10/	138,075	122,254	111,666	104.365	97,642	81,171	70,211	62,690	0.71	0.66	0.63	0.60	• • • • •
Bouchiha Bon Omar	69	137,175	121,524	111,049	103,826	96,463	80,236	69,437	62,025	0.70	0.66	0.63	0.60	
Bei Abbas	147	288,087	255,088	233,002	217.776	155,168	128.911	111,441	99,458	0.54	0.51	0.48	0.46	
Derb Chem's	63	124,031	109,838	100,338	93.789	91,506	76.181	65,983	58.983	0.74	0.69	0.66	0.63	
Ait Ouzkri	42	81,533	72,155	65,879	61,553	75,420	62,522	53,940	48,049	0.93	0.87	0.82	0.78	ы С Г
Ait Hmad	52	101,462	89,808	82,009	76,632	84,205	69.670	59,998	53.360	0.83	0.78	0.73	0.70	
Tizgui	63	123,029	108,914	99,467	92,954	91.415	76,111	65,927	58,938	0.74	0.70	0.66	0.63	
Anemi	94	216,910	195.618	181,366	171,540	116.874	96,927	83,652	74,543	0.54	0.50	0.46	0.43	
Talat Ait Ihla	73	161,496	145,312	134,480	127,013	98,974	82,315	71.232	63,627	0.61	0.57	0.53	0.50	
Adghouss	52	118,285	106,497	98,609	93,170	84,769	70,112	60,359	53,664	0.72	0.66	0.61	0.58	
lagadirt	52	113,840	102,397	94,740	89,461	83,542	69,152	59,578	53,008	0.73	0.68	0.63	0.59	
	94	211,167	190,085	175.976	166,248	116,629	96,746	83,514	74,435	0.55	0.51	0.47	0.45	
Antrioune	63	141,402	127,287	117.840	111.327	91,415	76,111	65,927	58,938	0.65	0.60	0.56	0.53	
litratine	49	188,932	170,102	157,500	148,811	108,033	89.723	77,539	69,179	0.57	0.53	0.49	0.46	
Aguenze	21	42,161	37,340	34,113	31,888	57,198	47,242	40,619	36.071	1.36	1.27	1.19	1.13	20%
litit Earagha	37	71.677	63,453	57,950	54,156	70,577	58,598	50,627	45,157	0.98	0.92	0.87	0.83	%L
Agadir Baragha	42	81,533	72.155	65,879	61,553	75,420	62,522	53,940	48.049	0.93	0.87	0.82	0.78	13%
Adar Baragha	12	23,510	20,821	O.	17.781	48,172	39,951	34,480	30,723	2.05	1.92	1.81	1.73 >1	100%
Tadchert		60,693	53.728	49,068	45,854	66,087	54,905	47,464	42,356	1.09	1.02	0.97	0.92	4%
lamsouit	S.	9,467	8.366	7,630	7.122	42,202	35,084	30,348	27.095	4.46	4.19	3.98	3.80	
Uar Jamaa Ait Ali	63	125,285	110,959	<u></u>	94.758	91,827	76,428	66,181	59,148	0.73	0.69	0.65	0.62	
Agadir Ait Brahim	29	55,959	49,527	ഹ	42,253	63,740	52.577	45,150	40,052	1.14	1.06	00.1	0.95	6%
louraghan	5		33,147	S.					34.696	1.46	1.37	1.29	1.23	37%
Imiki	52	101,066	89.468	81.705	76,353	83,742	69,304	59,699	53,107	0.83	0.77	0.73	0.70	

Attachment-2C (1/4)

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Name of Village	Number HH	Number HHCost of Electrification	ctrification			Benefit of El	ectrificati	on (Diesel (Generatio	Ratio of E	Benefit/C	Cost		EIRR
Iftt Ait Alla	23	46,229	40,959	37,432	35,000	58,438	48,264	41,495	36.847	1.26	1.18	111	1.05	13%
Boukhelf	89	176.271	156,132	142,652	133.358	112,568	93,416	80,671	71,926	0.64	0.60	0.57	0.54	,
Addar Ait Ali	23	47,627	42,224	38,607	36,113	59,045	48,740	41,882	37.173	1.24	1.15	1.08	1.03	1 1 %
Ait M'Barek	31	60,693	53,728	49,068	45,854	66,087	54,905	47,464	42,356	1.09	1.02	0.97	0.92	4%
Agadir Ait Bourd	63	121.631	107,649	98,292	91,840	92,383	76,378	65,729	58,423	0.76	0.71	0.67	0.64	
Afeila Ouassif	26	48,844	43,188	39,402	36,793	60,753	50,159	43.112	38.275	1.24	1.16	1.09	1.04	12%
Afella Ighil	10	20,325	17,994	16,434	15,359	47,185	39.108	33,734	30.043	2.32	2.17	2.05	1.96	>100%
Anfeg	16	31,315	27,722	25,318	23.660	51.925	42,996	37,054	32,973	1.66	1.55	1.46	1.39	>100%
Aguersouak	21	42,161	37,340	<u> </u>	31,888	57,198	47,242	40,619	36.071	1.36	1.27	1.19	1.13	20%
Oumast	37	72,073	63,794	58,253	54,434	71,041	58,963	50,927	45.411	0.99	0.92	0.87	0.83	-1%
Ait Zitoun	37	69.277	61,265	55,903	52,207	70,111	58,239	50,342	44,921	1.01	0.95	0.90	0.86	1%
Tagadirt (Ait Bouimzg	29	54,957	48,602	44,350	41,418	63,632	52,495	45,085	39.999	1.16	1.08	1.02	0.97	7%
Zaouit	6	18,663	16,530	15,102	14,117	46.292	38,382	33,118	29,503	2.48	2.32	2.19	_	>100%
Izalaghan (Dar Brahim	13	26,312	23,316	21,311	19,928	49,253	40,821	35,211	31,359	1.87	1.75	1.65		>100%
Tigouder (Ben said, Zy	25	49,954	44,233	40,404	37,764	61,142	50,443	43,323	38,434	1.22	1.14	1.07	1.02	10%
Amezi	38	74.880	66,295	60,548	56,586	71,935	59,687	51,537	45,941	0.96	06.0	0.85	0.81	-2%
Agouni	31	61,088	54,069	49,371	46.133	66.551	55,271	47,764	42,610	1.09	1.02	0.97	0.92	4%
Chaabat Tarik (Talet N	56	111,511	98,784	90,266	84,393	87,351	72.247	62,197	55,299	0.78	0.73	0.69	0.66	
Ighil Sdidene (Draa Rki	15	29.641	26.249	23.979	22.413	51,081	42.308	36,470	32,461	1.72	1.61	1.52	1.45	100%
Tizi	62	120.245	106,430	97,184	90,811	92,040	76,084	65.467	58,181	0.77	0.71	0.67	0.64	
Aghbalou	94	183,733	162.652	148,542	138,815	116,629	96,746	83,514	74.435	0.63	0.59	0.56	0.54	
Ait Hsain	14	28,975	25,704	23,514	22.004	50,316	41,671	35,920	31,971	1.74	1.62	.53 53	1.45	>100%
Ait Boubker	15	31,039	27,514	25,154	23,527	51,688	42.784	36,858	32,787	1.67	1.55	1.47		>100%
Tazatourt	35	69,337	61,436	56,147	52,500	68,827	57.173	49,419	44,096	0.99	0.93	0.88	0.84	%0
Tamsoulte	35	69.733	61.776	56,450	52,778	69.291	57,539	49,719	44,350	0.99	0.93	0.88	0.84	°%)
Tizgui	52	101,462	89.808	82,009	76.632	84,205	69,670	59,998	53,360	0.83	0.78	0.73	0.70	
Ait Tirghit	52	100,460	88,884	81,137	75,797	84.106	69,594	59,938	53,311	0.84	0.78	0.74	0.70	•
Tachbibt Kabli	31	63,092	55,917	51.114	47,803	66,553	55,263	47,750	42,592	1.05	0.99	0.93	0.89	2%
Tachbibt Echatoui	.31	63,092	55,917	51.114	47.803	·66,751	55,423	47,885	42,709	1.06	0.99	0.94	0.89	3%
Asgoune	31	61,694	54,653	49,939	46,689	66,187	54,981	47,525	42,405	1.07	1.01	0.95	0.91	ő
Ait Aamara Loued	84	165,808	146,846	134,154	125.403	108,370	89,983	77.747	69.351	0.65	0.61	0.58	0.55	
Lakaarna	31	59.691	52.804	48,196	45.020	65,987	54,829	47,404	42,307	1.11	1.04	0.98	0.94	5%
Tarast	47	96,909	85,877	78,492	73,400	80,989	67,002	57,693	51,303	0.84	0.78	0.74	0.70	+
Assaka	47	94,611	83,879	76,694	71.739	79,662	65,970	56,858	50,605	0.84	0.79	0.74	0.71	
Ansa	62	142,164	128,059	00	112,110	91.086			58,684	0.64	0.59	0.55	0.52	
Ezzaouite	17			8,935	36,892	54,560		38,727	34,383	1.18	1.08	0.99	0.93	6%
Photovoltaics lotal			5,951,585		5,129,156		4,552,972		3,500,935	0.82	0.77	0.72	0.68	

Village-wise Economic Analysis of PV (for Diesel) (2/2)

Attachment-2C (2/4)

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Village-wise Economic Analysis of Diesel (for PV)

Name of Village	Number HHCost of Electrification	Cost of Ele	Actrification			Benefit of E	Electrificatio	on (Diesel	Benefit of Electrification (Diesel Generatio/Ratio of Benefit/Cost	atio of E	Senefit/(Cost	EIRR
		DR=0%	3%	6%	1 %6	DR=0%	3%	6%	0 %6	9% DR=0%	e Se	6%	%6
Agouns	110	164,160	141,757	126,827	116,571	194,624	172,064	156,959	146,544	1.19	1.21	1.24	1.26
Lemdinat	168	224,941	196,347	177,331	164.293	299,120	264,572	241,439	225,487	1.33	1.35	1.36	1.37
Tnirt	242	294,424	259,590	236,429	220,554	429,245	379,536	346,254	323,303	1.46	1.46	1.46	1.47
Ansmrou	168	224,064	195,530	176,554	163,544	297,722	263,308	240,264	224,374	1.33	1.35	1.36	1.37
Toulkine	200	257,521	225,460	204,155	189,556	362,467	320.793	292.885	273.638	1.41	1.42	1.43	1.44
Douzrou	231	283,193	249.502		211,739	408,548	361,309	329,679	307.867	1.44	1.45	1.45	1.45
Ait Outmane	158	213,939	186,579	168.377	155,894	280,630	248,216	226.513	211.547	1.31	1.33	1.35	1.36
Ait Smil	158	216,190	188.639	170,309	157.737	284.031	251.329	229 431	214,330	3	1.33	1.35	1.36
Ait Bourd	105	161,663	139,330	124,448	114.227	188.529	166.812	152,269	142.240	117	1.20	1 22	1 25
Ait Bouzid	125	180,445	155,973	139,680	128,499	221.141	195.551	178.418	166.602	1.23	1.25	1.28	30
Abadou	116	174,760	150,976	135,136	124.262	212.135	187.627	171 217	159.900	1 21	1 24	1 27	561
Ait Atmane	109	167.873	144,830	129,478	118,936	202.855	179,633	164.081	153.355	121	1.24	1 27	561
Diesel total		2.563.173	2 563 173 2 234 515 2 015	2015823	1 265 210	REF 810 (Ear Diaca!	[å		o io 0//				

Alla Oumzri 42 285,403 Id Ssior 69 299,728 Amsakrou 58 79 Arg 79 79 Ikiss 68 543,665 Anfi 66 66 Timichi 66 129 Imin Tala 73 73 Ardouz 52 45,494		INUTIONER FILLOUSE OF CRECUTICATION		denetit of t	ecumicatio	tiectrification (Uiesel Generation Aatio of Benefit/ Cost	SELICIALIUL	2000 00		231	
iior 69 akrou 58 Arg total 205 chi 66 Anfi total 129 Tala 73 buz 52 Shad	33 274,159	267,860	264,099	75,056	62.232	53.700	47,845	0.26	0.23	0.20	0.18
akrou 58 Arg total 79 68 66 chi 63 Anfii total 129 Tala 73 buz 52 Shad	28 287,928	281	277,153	96,371	80.166	69,381	61,980	0.32	0.28	0.25	0.22
79 Arg total 205 chi 66 Anfli total 129 Tala 73 buz 52 Shad 45				0	0	0	0				
Arg total 68 Chi 205 Chi 205 Chi 205 63 63 63 63 73 73 73 73 73 73 73 73 73 73 73 73 73				0	0	0	0				
Arg total 205 Shi 66 Anfii total 129 Tala 73 buz 52 Shad				0	0	0	0				
chi Anfii total 63 Tala 73 buz 52 Shad	55 527,135	517,602	511,941	140,868	128,681	120,464	114,769	0.26	0.24	0.23	0.22
i total 73 52 45				0	0	0	0				
i total 129 73 52 45				0	0	0	0				
	94 410,747	402,522	397,630	104.785	94,186	87,053	82.115	0.25	0.23	0.22	0.21
				0	0	0	0				
				0	0	0	0				
				0	0	0	0				
				0	0	0	0				
Itmi N'isly 90				0	0	0	0				
Dou Anamer 37				0	0	0	0				
Igoundem 14				0	0	0	0				
Toug Lkheif 42				0	0	0	0				
Inzaine total 426 879,890	90 852,354	838,144	829.731	282,433	263,995	251,501	242,816	0.32	0.31	0.30	0.29
Adardour 168 515,973	73 496,847	486,169	479,813	168,599	140,532	121,858	109.050	0.33	0.28	0.25	0.23
Tidsi 42				0	0	0	0				
Afra 68				0	0	0 0	õ				
Tidsi total 110 409.910	409.910 394.300 385,583	385,583	380,392	93,788	84,267	77,866	73,438	0.23	0.21	0.20	0.19
MicroHydro total 3.360.063	3.360.063 3.243.470 3.179.059		3.140.760	961,899	854.060	781,824	732 013	0.29	0.26	0.25	0.23

Village-wise Economic Analysis of Micro-hydropower (for Diesel)

Attachment-2C (4/4)

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• <u>P:</u>]	Photovoltaic, D:Diesel Generation, M: Douar	Microhydro G Income	eneration Fixed cost	Accumulated	percentage	Page-1 Cost
	Donali	DH	USS	US\$	percentage	US\$
р	Agouni	8,173	51,469	51,469	0.4%	11.
p	Tamsoulte	8,247	58,017	109,487	0.8%	11.4
p	Ighil Sdidene (Draa Rkik)	9,195	25,055	134,541	1.0%	11.3
p	Tadchert	9,664	51,219	185,761	1.4%	11.4
P	Tigouder (Ben said, Zyoubt)	9,859	42,202	227,962	1.8%	11.
-	Afella Ouassif	9,917	40,899	268,861	2.1%	10.9
p	Oumast	9,998	60,737	329,598	2.6%	11.
թ ժ	Agouns	10,288	78,865	408,463	3.2%	9.
	Zaouit	10,233	15,787	403,403	3.3%	12.
p	Agadir Ait Brahim	10,735	47,169	-	3.3% 3.7%	11.
P	Dar Jamaa Ait Ali		47,109	471,419		11.
Р	-	11,952	-	577,465	4.5%	
P	Anteg	12,405	26,414	603,879	4.7%	11.
P	Amezi Terredist	12,881	63,206	667,085	5.2%	11. 12.
P	Tagadirt Charlet Tarik (Balat MTakharaa)	12,999	102,996	770,082	6.0% 6.7%	
Р	Chaabat Tarik (Talet NTghharast)	13,491	94,503	864,584	6.7%	11.
р	Anfrioune	14,070	128,528	993,112	7.7%	13.
р	Iouraghan	14,237	31,603	1,024,715	7.9%	11.
Р	Tizi	14,360	101,357	1,126,073	8.7%	11.
р	Izalaghan (Dər Brahim Ou Ali)	14,437	22,336	1,148,408	8.9%	11.
р	Amagdour	15,412	38,151	1,186,559	9.2%	11.
р	Aguersouak	15,518	35,654	1,222,213	9.5%	11.
Р	Addar Ait Ali	16,356	40,564	1,262,777	9.8%	12.
р	Tamaterte	16,768	94,738	1,357,515	10.5%	14.
m	Alla Oumzri	17,539	482,560	1,840,075	14.3%	29.
þ	Aghbalou	17,655	155,046	1,995,121	15.5%	11.
p	Agadir Ait Bourd	18,194	101,414	2,096,535	16.2%	11.
m	Anfli Tazatourt	18,614	731,160	2,827,695 2,886,544	21.9% 22.4%	14. 11.
р d	Abadou	19,005	58,849 84 206			9.1
d -		19,146	84,206	2,970,750	23.0%	9 13.(
Р	Tifirt All Mars d	19,550	191,929	3,162,679	24.5% 25.29	
p	Ait Hmad	19,934	85,542	3,248,220	25.2%	11.4
p	Tizgui Alt Smil	20,082	103,827	3,352,047	26.0%	11.4 8.1
d	Ait Smil	20,467	111,423	3,463,470	26.8%	
Р	Ezzaouite	20,476	43,279	3,506,749	27.2% 27.2%	15.
p	Ait Ouzkri	20,773	68,644	3,575,394	27.7%	11.1
d	Ait Bourd	20,792	76,620	3,652,014	28.3%	9.5
þ	Adghouss	21,178	107,611	3,759,624	29.1%	13.
р	Derb Chem's	21,208	104,908	3,864,532	29.9%	11.5
p	Ikiss	21,489	143,415	4,007,947	31.0%	12.9
р	Ait Hsain	21,723	24,777	4,032,724	31.2%	12.0
р	Tifratine	22,443	171,948	4,204,672	32.6%	13.0
p	Tizgui	22,475	85,542	4,290,214	33.2%	11.4
р	Ait Boubker	22,476	26,386	4,316,600	33.4%	12.(
р	Ansa	22,910	129,747	4,446,347	34.4%	13
р	Tinerhouhrine	23,036	68,952	4,515,299	35.0%	14.(
р	Ait Zitoun	23,220	58,074	4,573.373	35.4%	10.9

Village income, Investment for Electrification and calculated cost(Return:100%,Discount:0%) P:Photovoltaic, D:Diesel Generation, M:Microhydro Generation Page-1

<u>+ P:I</u>	hotovoltaic, D:Diesel Genera	tion, M:					Page-2
*	Douar		Income	Fixed cost	Accumulated	percentage	Cost
			DH	USS	USS	30.74	USS
P	Adar Baragha		23,362	19,866	5,103,799	39.5%	11.4
d	Douzrou		23,449	155,298	5,259,097	40.7%	7.7
d	Toulkine		23,742	135,709	5,394,806	41.8%	8.0
ρ	Tamsoult		24,220	7,908	5,402,714	41.8%	11.0
р	Agadir Baragha		24,673	68,644	5,471,358	42.4%	11.3
đ	Ait Outmane		24,918	109,899	5,581,257	43.2%	8.5
р	Ifit Ait Alla		25,119	39,233	5,620,490	43.5%	11.7
p	Assaka		25,203	80,629	5,701,119	44.2%	11.7
р	Bouchiha Bon Omar		25,547	116,339	5,817,458	45.1%	11.6
р	Sqour		25,614	78,715	5,896,173	45.7%	11.5
p	Boukhelf		26,110	149,301	6,045,475	46.8%	11.5
р	Tacheddirt		26,151	137,904	6,183,379	47.9%	13.8
d	Ait Bouzid		26,368	87,336	6,270,715	48.6%	8.9
ρ	Tachbibt Kabli		26,406	53,632	6,324,347	49.0%	11.8
p	Awin Mazouz		26,770	116,673	6,441,020	49.9%	11.5
p	Tarəst		27,537	82,323	6,523,343	50.5%	12.0
p	Aguenze		27,732	35,654	6,558,997	50.8%	11.7
p	Ait Tirghit		27,815	84,460	6,643,457	51.5%	11.2
P	Bel Abbas		28,494	242,779	6,886,236	53.3%	11.4
P	Ait M'Barek		29,668	51,219	6,937,455	53.7%	11.4
P	Aghella		30,230	136,595	7,074,050	54.8%	13.0
Р d	Ait Atmane		31,688	80,117	7,154,167	55.4%	9.5
P	Imiki		31,829	85,292	7,239,459	56.1%	11.3
Р р	Tagadirt (Ait Bouimzgan)		32,643	46,087	7,285,546	56.4%	11.0
	Afella Ighil		33,452	17,147	7,302,693	56.6%	11.8
р р	Ait Aamara Loued		34,604	140,312	7,302,095	57.6%	11.5
	Tachbibt Echatoui		35,571	53,632	7,496,638	58.1%	11.8
թ տ	Inzaine	426	36,250	1,563,570	9,060,208	70.2%	9.1
p	lfit Baragha	120	36,770	60,487	9,120,694	70.6%	11.3
ศ กา	Adardour	168	38,651	869,030	9,989,724	77.4%	13.3
m	Arg	206	39,848	956,980	10,946,704	84.8%	11.7
р	Asgoune		41,619	52,301	10,999,005	85.2%	11.6
P	Lakaarna		43,005	50,138	11,049,143	85.6%	11.2
ď	Toirt		43,039	162,173	11,211,316	86.8%	7.6
р	Tassa Ouirgane		44,693	120,010	11,331,326	87.8%	13.1
ď	Ansmrou		47,945	115,639	11,446,965	88.7%	8.3
Р	Anermi		51,135	198,838	11,645,803	90.2%	13.4
m	Tidsi	110	62,646	677,210	12,323,013	95.4%	15.8
р	Id Aissa		70,251	102,607	12,425,620	96.2%	14.1
Р	Igrem		73,168	62,922	12,488,542	96.7%	. 14.1
p	Tizi Oussem		80,138	160,373	12,648,914	98.0%	13.4
р	Talat Ait Ihla		80,368	146,444	12,795,359	99.1%	12.8
d	Lemdinat		88,562	116,280	12,911,639	100.0%	8.3

Village income, Investment for Electrification and calculated cost(Return:100%,Discount:0%) P:Photovoltaic, D:Diesel Generation, M:Microhydro Generation Page-2

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*	Re-arranged by Cost(Return: Douar	Income	Fixed cost	Accumulated	percentage	page-1 Cost
		DH	US\$	US\$	Puttoning	US\$
m	Alla Oumzri 42	17,539	482,560	482,560	3.7%	29
m	Id Ssior 69	23,233	510,560	993,120	7.7%	19
m	Tidsi 110	62,646	677,210	1,670,330	12.9%	15
р	Ezzaouite	20,476	43,279	1,713,609	13.3%	15
m	Anfli 129	18,614	731,160	2,444,769	18.9%	14
р	Tamalerte	16,768	94,738	2,539,507	19.7%	14
р	Igrem	73,168	62,922	2,602,429	20.2%	14
р	Id Aissa	70,251	102,607	2,705,036	21.0%	14
р	Tinerhouhrine	23,036	68,952	2,773,988	21.5%	14
p	Tacheddirt	26,151	137,904	2,911,892	22.6%	13
р	Tizi Oussem	80,138	160,373	3,072,265	23.8%	13
Р	Anermi	51,135	198,838	3,271,102	25.3%	13
p	Ansa	22,910	129,747	3,400,849	26.3%	13
Р M	Adardour 168	38,651	869,030	4,269,879	33.1%	13
p	Adghouss	21,178	107,611	4,377,490	33.9%	13
r P	Tassa Ouirgane	44,693	120,010	4,497,500	34.8%	13
Р Р	Tifratine	22,443	171,948	4,669,448	36.2%	13
-	Tifirt	19,550	191,929	4,861,377	37.7%	13
P.	Anfrioune	19,000	128,528	4,989,905	38.6%	13
p	Aghella	30,230	126,525		39.7%	13
P	-			5,126,500		12
P	lkiss Talat Ait Ibla	21,489	143,415	5,269,915	40.8%	
p	Talat Ait Ihla	80,368	146,444	5,416,359	41.9%	12
р	Tagadin	12,999	102,996	5,519,356	42.7%	12
р	Zaouit	10,759	15,787	5,535,143	42.9%	12
р	Addar Ait Ali	16,356	40,564	5,575,707	43.2%	12
P	Ait Hsain	21,723	24,777	5,600,484	43.4%	12
р	Ait Boubker	22,476	26,386	5,626,870	43.6%	12
р.	Tarast	27,537	82,323	5,709,193	44.2%	12
р	Tachbibt Kabli	26,406	53,632	5,762,825	44.6%	11
р	Tachbibt Echatoui	35,571	53,632	5,816,458	45.0%	11
ρ	Afella Ighii	33,452	17,147	5,833,605	45.2%	11
Р	Izalaghan (Dar Brahim Ou Ali)	14,437	22,336	5,855,940	45.4%	11
р	Assaka	25,203	80,629	5,936,569	46.0%	11
n	Arg 206	39,848	956,980	6,893,549	53.4%	11
р	Ifit Ait Alla	25,119	39,233	6,932,782	53.7%	11
р	Aguersouak	15,518	35,654	6,968,436	54.0%	11.
p	Aguenze	27,732	35,654	7,004,089	54.2%	11.
r P	Tigouder (Ben said, Zyoubt)	9,859	42,202	7,046,291	54.6%	11.
þ	Asgoune	41,619	52,301	7,098,592	55.0%	11.
Р р	Chaabat Tarik (Talet NTghharast)	13,491	94,503	7,193,095	55.7%	11.
	Bouchiha Bon Omar	25,547	116,339	7,309,434	56.6%	11.
p	-					
p	Dar Jamaa Ait Ali Davladalf	11,952	106,046	7,415,480	57.4%	11.
p	Boukhelf	26,110	149,301	7,564,782	58.6%	11.
р	Tazatourt	19,005	58,849	7,623,631	59.0%	11.
Р	Sqour	25,614	78,715	7,702,346	59.7%	11.

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	Douar		Income	Fixed cost	Accumulated	percentage	Cost
			DH	US\$	US\$		US\$
)	Ait Aamara Loued		34,604	140,312	7,842,658	60.7%	11.5
)	Ighil Sdidene (Draa Rkik)		9,195	25,055	7,867,713	60.9%	11.5
)	Awin Mazouz		26,770	116,673	7,984,386	61.8%	11.5
)	Agouni		8,173	51,469	8,035,855	62.2%	11.5
)	Amezi		12,881	63,206	8,099,061	62.7%	11.5
)	Iouraghan		14,237	31,603	8,130,664	63.0%	11.5
)	Derb Chem's		21,208	104,908	8,235,573	63.8%	11.5
)	Amagdour		15,412	38,151	8,273,724	64.1%	11.4
)	Tamsoulte		8,247	58,017	8,331,741	64.5%	11.4
)	Tadchert		9,664	51,219	8,382,961	64.9%	11.4
)	Ait M'Barek		29,668	51,219	8,434,180	65.3%	11.4
)	Anfeg		12,405	26,414	8,460,594	65.5%	11.4
)	Adar Baragha		23,362	19,866	8,480,461	65.7%	11.4
)	Aghbalou		17,655	155,046	8,635,507	66.9%	11.4
)	Bel Abbas		28,494	242,779	8,878,286	68.8%	11.4
)	Tizgui		20,082	103,827	8,982,112	69.6%	11.4
)	Ait Hmad		19,934	85,542	9,067,654	70.2%	11.4
)	Tizgui		22,475	85,542	9,153,195	70.9%	11.4
)	Oumast		9,998	60,737	9,213,932	71.4%	11.3
)	Imiki		31,829	85,292	9,299,224	72.0%	11.3
)	Ait Ouzkri		20,773	68,644	9,367,868	72.6%	11.3
)	Agadır Baragha		24,673	68,644	9,436,512	73.1%	11.3
)	Tizi		14,360	101,357	9,537,870	73.9%	11.3
)	Ifit Baragha		36,770	60,487	9,598,356	74.3%	11.3
)	Ait Tirghit		27,815	84,460	9,682,816	75.0%	11.2
)	Agadir Ait Brahim		10,971	47,169	9,729,985	75.4%	11.2
)	Lakaarna		43,005	50,138	9,780,123	75.7%	11.2
)	Agadir Ait Bourd		18,194	101,414	9,881,536	76.5%	11.1
)	Tamsoult		24,220	7,908	9,889,444	76.6%	11.0
)	Tagadirt (Ait Bouimzgan)		32,643	46,087	9,935,531	77.0%	11.0
)	Afella Ouassif		9,917	40,899	9,976,430	77.3%	10.9
)	Ait Zitoun		23,220	58,074	10,034,504	77.7%	. 10.9
j	Ait Atmane		31,688	80,117	10,114,621	78.3%	9.5
ł	Ait Bourd		20,792	76,620	10,191,241	78.9%	9.5
i	Agouns		10,288	78,865	10,270,106	79.5%	9.4
1	Abadou		19,146	84,206	10,354,312	80.2%	9.3
Ŋ	Inzaine	426	36,250	1,563,570	11,917,882	92.3%	9.1
	Ait Bouzid		26,368	87,336	12,005,218	93.0%	8.9
	Ait Smil		20,467	111,423	12,116,641	93.8%	8.5
	Ait Outmane		24,918	109,899	12,226,540	94.7%	8.5
	Lemdinat		88,562	116,280	12,342,820	95.6%	8.3
	Ansmrou		47,945	115,639	12,458,459	96.5%	8.3
ļ	Toulkine		23,742	135,709	12,594,168	97.5%	8.0
1	Douzrou		23,449	155,298	12,749,466	98.7%	. 7.7
1	Tairt		43,039	162,173	12,911.639	100.0%	7.6

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