

PREPARED FOR



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2024







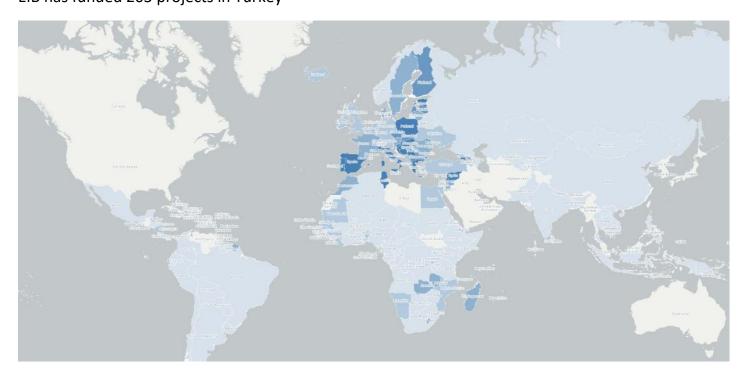




Turkey Solar Irrigation projects opportunity



Since 1959 EIB has invested in thousands of companies and projects, both across the EU and beyond. EIB has funded 263 projects in Turkey



This is an application for funding for the Turkey Solar Irrigation project by PSECC Ltd on behalf of Swiss Joule & InTecs.







Websites: http://psecc.co.uk/ & https://swissjoule.com/

PSECC Ltd work in Africa http://lapssetenergy.com/



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EXECUTIVE SUMMARY

Request for Quotation - Financing and EPC services

Intecs and Swissjoule and local associates are developing several project initiatives in the Area of Turkey. Within the last year the cost of energy has doubled to power the pumps for irrigating crops as pistachio, corn, grain, rapeseed, produce, cotton or fruit trees. The following document describes to replace power from the grid with renewable Solar power.

The applying irrigation associations received authorization by parliament to re-structure and organize energy supply independently. This is based on the legislation for renewable Energy.

Water for irrigation is pumped out of the reservoir at Atatürk dam and runs in open canals up to 100 km to the plantations. During last mile distribution, delivered amounts are invoiced to the farmers by the applying irrigation association.

Replacing all the power consumed over the vegetation period requires a 100 MWp solar plant. As net metering is offered for the given purpose, the financials are straight forward. 200.000 MWh p.a. are consumed. Cost for this has reached a current rate of 0,1014 \$ / kWh. After obtaining energy license the current rate for off-taking is at the same 0,1014 \$ / kWh. This tariff will be used for paying interest and repay the given loan.

Against this background a Capital Expenditure of 900 \$ / kWp the full payback is possible within 6 Years.

Based on the local legislation an utility has to off-take renewable electricity created, if the installation is furnished with a production license. To utilize this mechanism as a payback warranty to the financier, the utility will accept and has provided a draft of a declaration of assignment of funds directed to the financier.

Declaration of assignment in combination with the transfer of ownership of the SPV, owning the installation, will fully grant the funds to pay back incl. 8% interest.





The below describes a first pilot project of 100 MWp. A second local irrigation association was acquired to install another 100 MWp on the reserved property. Two other associations including extensions will account to a total installation size of 435 MWp in this region only.

Next to a financing solution as described below, a PPP structure for BOT can be discussed. In this case the public partner will receive Shares of the SPV according to the repayment of the debt and reduces the payments for the energy self-consumed. This structure will be provided upon request.

After acquisition of financing for this 1st pipeline, other regions will be acquired with the same blueprint and methodology.

All players are more than committed to replace power from the grid and get independent from all kinds of cost fluctuations.

PSECC Ltd project development charge is 0.5% of total funding.





2. 100 MWp, South of Atatürk Hydroelectric Dam

a. Location of Pumps and Irrigated plots, growers

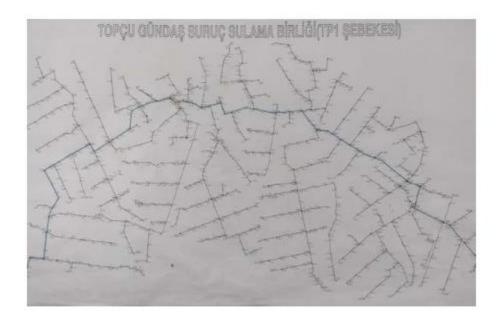


Place of main electric consumption is at the south eastern part of Lake Atatürk. Water for Irrigation gets pumped with 10 – 12 pumps into the canal providing the southern growing areas with irrigation.





Total length of this part of the canal is 103 km, whereas 38,5 km are underground. On the way to the south the canal is equipped with additional pumps and gates. The basis for the calculation is the growing area and the variety to be irrigated.



In this area farmers grow traditionally mainly pistachio, corn, grain, rapeseed, produce, cotton or fruit trees. This crop strongly depends on watering. Especially in the month from March till last harvesting in November.



b. Location of installation site

To host solar generators of 2 divisions of the water associations the below area is considered as suitable and was reserved for the development.

Land is flat, not used for any agricultural or other activity and needs just a minimum of land preparation. Soil conditions are assumed for simple ramming.



The designated installation has road access and can be reached within a 1-hour drive from Sanliurfa.

The plotted and reserved area can host a total of the 330 MWp applicant 1 & 2 are requesting. Further plots and extensions can be discussed with the land owner. Land lease cost including a reserve are considered in the financial projection.

GPS for Google Earth: 37°40'33.03"N, 39°27'42.62"E

Footprint of the red location: 362 hectares





c. Connection to feed in point

Right of way to the neighboring 154 kV line is granted by the landowner. Distance from site to powerline is 500 m.

d. Off-taking

As this project and the associated pipeline of projects of other irrigation service providers is clearly in the public interest and supports the stability of the agricultural sector, the off taking utility has offered net metering.

This mplies that 100 % of the generated electricity can be evacuated independent from season or demand and can be fully consumed when needed. Net metering does not require any payments or deductions for feeding in or additional cost for consumption.

Considering last year consumption of close to 200.000 MWh, break even for the installation size to fully cover consumption is around 100 MWp for Applicant 1 and the same for Applicant 2.

If supported by EPC and Financier, the applicants are interested to increase the installation size in a second sequence from 100 to 130 and 100 to 200 MWp respectively.

e. Financials

As many other countries also Turkey is facing skyrocketing electricity cost. The climate conditions in the area require irrigation to support the growths of the crop from March to November. From December to February there was so far just a little need for irrigation.

According to information of the irrigation association the consumption in 2021 was around 197.000 MWh. Current figures show a comparable consumption in 2022.

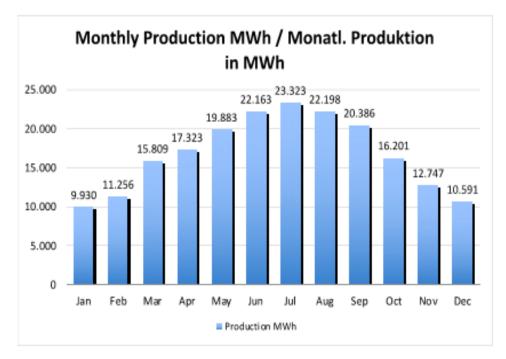
Whereas the power needed for irrigation was nearly unchanged, the cost of consumption skyrocketed: In 2021 the irrigation association paid around 14 M. \$ or 0,0710 \$ / kWh. In 2022 the association already paid 0,1014 \$ / kWh.

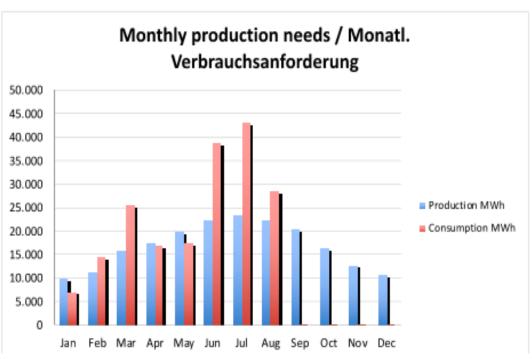
However for the following planning a realistic 0,1014 \$ / kWh shall be considered as the income for the serving (repayment and cost of financing, interest, annuity) of a potential financier.





Assumptions Financial Model: 100 MWp Installation Size







Specification of plant:

Sales price / certificate:

Certificate price modification:

Minimum certificate price:

Specification of	piarie.						
Total nominal p	ower:	100.000,00 kWp					
Degradation:			0,40%				
Blackout loss:		0,00%					
Earnings:	•						
Electricity yield	/ kWp:	2.0	002 kWh / kWp				
Power yield / y	ear:	200.200.	000 kWh / year				
Feed-in tariff:							
Until kW:	Currency / kWh:	Inflation:	Cap curr / kWh:				
	0,1014	0,00%	0,0000				
	0,0000	0,00%	0,0000				
	0,0000	0,00% 0,0					
	0,0000	0,00%	0,0000				
	0,0000	0,00%	0,0000				
Ending of feed-	in tariff:		after 20. year				
Feed-in tariff af	terwards:	C),0000 cu / kWh				
Direct sales per	year:		0,00%				
Electricity sales	price:	C),0000 cu / kWh				
Electricity sales	price inflation:		0,00%				
Earnings by certificates:							
Certificate / fed	in MW:	1 Ce	ertificates / MW				
Total certificate	es:	140.140 Certificates					

Financing:

Annuity:	1
Interest rate with fixed rate:	8,00%
Interest rate after fixed rate:	0,00%
Fixed interest rate until:	
Grace period until:	
Debt ratio:	100,00%
Debt capital:	82.000.000
Credit period:	6 years
First repayment date:	Jan-24
Repayment terms:	3
	semiannual

Running costs:

Maintenance / kWp:	8,00 cu/kWp
Insurance:	0,40%
Management:	370.000
Lease per year:	200.000
Cost inflation:	3,00%

Fiscal aspects:

5,00 cu / Certificate

0,00 cu / Certificate

0,00%

Amortization period:	15 years
Corporate tax:	0,00%
Other taxes:	0,00%

5	Start of operations:	Jan-25
(Currency:	€
1	Total contract value:	82.000.000







Finanzierung 100 MWp, Irrigation, 6 Years

	rinanzierung 100 MWp, In	igation, o	rears																		
Flancing layer Flancing Segue 1	Capex / Investitionsausgaben	82.000.000	820	\$/kWp	100.000	EPC BOS / Inst	tallkosten	730	73.000.000		Carbon credits	created	tons	reduction 0,9							
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Equipment (approximate) 10 10 10 10 10 10 10 1	0.0	92 000 000	.,,,,,					920													
Page	Total contract value / veriagssumme	82.000.000				Total		820	82.000.000												
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Contract period in full years / Vertragspielr 6 Scialitor / ye Inflation Inflation / Fertralhing January Jan	Repayments per year / Raten pro Jahr	2																			
Fear / Nahr		itr 6		Escalator / yea	Inflation	Irradiation / Ei	nstrahlung														
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The Production in Wh Production in White Pro																					
The Production in Wh Production in White Pro			_	-		_		_	_												_
Produktion INN-Produktion INN-Produk	Year / Jahr	_						-	-	-											
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Management																					
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Comportate tax / Unternehmenssteuer 0 0 0 0 0 0 0 0 0	EBT	9.278.164	10.050.693	10.896.365	11.821.189	12.831.663	13.934.819	14.788.774	14.646.300	14.502.570	14.357.536	14.211.145	14.063.346	13.914.084	13.763.303	13.610.946	18.923.621	18.767.933	18.610.487	18.451.218	18.290.06
Differ Lases Andrew Sequemer 9 0 0 0 0 0 0 0 0 0	P/L before tax / Gewinn, Verlust vor Steu	er 9.278.164	10.050.693	10.896.365	11.821.189	12.831.663	13.934.819	14.788.774	14.646.300	14.502.570	14.357.536	14.211.145	14.063.346	13.914.084	13.763.303	13.610.946	18.923.621	18.767.933	18.610.487	18.451.218	18.290.0€
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- Amortization / - Abschreibung	Cash Flow / Bargeldumlauf																				
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						-		-	-		1	1	1	
IRR on total investment / interne	20,78%													
INN on total investment / interne	20,7676	Above figures a	are a rough est	imation and su	bject to a review	 Subject to approva 	and external	credit approval.	Therefore, not					
111														
Verzinsung der Gesamtinvestition		binding.												
										_				
IRR on equity / Verzinsung Eigenkapital	#ZAHL!	All terms and o	conditions are n	rovided as an i	ndication withou	t any obligation on o	ur nart.							

- ⇒ IRR on total investment: 20,78 %
- ⇒ In the 6 years of financing and within the obligation to repay the financier, the Irrigation Association still creates a free cash flow account of 19,6 M\$.
- ⇒ These funds can be used at any time to meet the obligation.
- ⇒ The financial model is based on conservative assumptions. The irradiation forecast was created with PV-Gis for a single-axis tracking mounting structure.
- ⇒ Incentive for a financier is an 8% interest for the 6 year term.
- ⇒ Higher interest rates are possible on request.





f. Securities

Currently the following securities are envisioned.

- 1. The applying organization will incorporate an SPV and transfer the ownership of the SPV including the fully commissioned installation itself as a security to the financier.
- 2. The irrigation association fully administers the IPARD subsidies granted by the EU to the farmers. If farmers are defaulting and are not paying their share of the electricity cost for pumping and irrigation, the association can block the complete IPARD subsidies till full payment. If irrigation invoices are finally not paid, the association can utilize the funds for outstanding payments.
- 3. After acquisition of the energy production license, the local utility has the legal obligation to off-take the electricity produced by the IPP license holder.

 The off-taker has already provided the attached declaration of assignment. With this the utility grants to transfer the earnings of the electricity delivered directly to the financier.

After signature the utility grants in Paragraph 3 to irrevocably transfer rights and receivables to the assignee until the debt from the financing is paid.





In the unlikely case of default of the Irrigation association, the financier can activate the declaration of assignment. This results in the transfer of the turnover directly to the financier.

Year / Jahr	1	2	3	4	5
	2025	2026	2027	2028	2029
Produktion in kWh	201.811.684	201.005.915	200.203.364	199.404.017	198.607.862
Turnover feed in / Umsatz Einspeiseverg	ü 20.463.705	20.382.000	20.300.621	20.219.567	20.138.837

The declaration of assignment is already designed to fully cover the entire debt (payback and interest) for the full term. After signature it is legally binding and irrevocable for both the IPP and off-taker.

Over the first 5 years of operation the declaration of assignment covers the payback of the full loan incl. an interest of 8%.

Inflation and exchange risk:

Repayment and interest payments are made in local currency. However, the electricity price is adjusted every quarter in accordance with the EPDK publication. This mechanism ensures that the financier is largely protected against risks arising from exchange rates and inflation.





3. 100 MWp, East of Atatürk Hydroelectric Dam

Negotiation with Applicant 2 was started.

A yearly consumption of 200.000 MWh was reported. This can be covered by another 100 MWp solar generator.

Out of economic reasons the 100 MWp plus possible extensions will be hosted on the 362 hectares property in Catli



Irrigation Area of Applicant 2

Therefore the assumptions and financials are identical for the 2nd Irrigation association.





4. Envisioned Pipeline & Extensions

Applicant	Area	Installation Size
1	130 hectares	100 + 30 MWp
2	200 hectares	100 + 100 MWp
3	tbd	20 + 20 MWp
4	tbd	65 MWp
Total		435 MWp

Grasmann 030124

Un-negotiated draft of a letter of assignment provided by the utility.



smart energies																				
Finanzierung 100 MWp, Ir	rigation, 6	Years																		
Capex / Investitionsausgaben	82.000.000	920	\$/kWp	100.000	EPC BOS / Inst	allkorton	730	73.000.000		Carbon credits	croated	tons	reduction 0,9							
Insurance fee / Versicherung	02.000.000		of debt	100.000	Connection, Pe		60	6.000.000		0,8 kg/kWh		161.449	145.304	727						
Financing fee / Finanzierungsgebühr	0		of debt		Reserves, Rese		30	3.000.000		U,U Kg/ K¥¥11	101.445.547	101.445	145.504	727						
Total contract value / Verragssumme	82.000.000		Or debt		Total	ive.	820													
rotar contract value / venagosamme	OE10001000				rotai		OL0	02.000.000												
Equity of contract value / Eigenkapital	0	0%																		
Debt of contract value / Fremdkapital	82.000.000	100%																		
Interest rate / Zinssatz	8,0%																			
Repayments per year / Raten pro Jahr	2																			
Contract period in full years / Vertragsze			Escalator / ye	Inflation	Irradiation / Ei	nstrahlung														
PPA incentive based on purchase cost /		\$/kWh	0,00%			PV Sys calc														
[11 A meeting based on parents cost)	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	107.000	0,007	1 5,0070	LIOUZ	1 v systalo														
Year / Jahr	1	2	3	4	5	6	7	8	9	10	11	12		14	15	16	17	18	19	
	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	
Produktion in kWh		201.005.915			198.607.862											190.057.185				
Turnover feed in / Umsatz Einspeisevers		20.382.000	20.300.621	20.219.567	20.138.837	20.058.429		19.898.576	19.819.127	19.739.996	19.661.180		19.504.492	19.426.617	19.349.053	19.271.799	19.194.853	19.118.214	19.041.881	
Turnover Certificates	706.341	703.521	700.712	697.914	695.128	692.352	689.588	686.834	684.092	681.361	678.640	675.931	673.232	670.544	667.867	665.200	662.544	659.899	657.264	
Insurance cost / Versicherung	328.000	337.840	347.975	358.414	369.167	380.242	391.649	403.399	415.501	427.966	440.805	454.029	467.650	481.679	496.129	511.013	526.344	542.134	558.398	
Maintenance / Wartung	800.000	824.000	848.720	874.182	900.407	927.419	955.242	983.899	1.013.416	1.043.819	1.075.133	1.107.387	1.140.609	1.174.827	1.210.072	1.246.374	1.283.765	1.322.278	1.361.946	
Management / Management	370.000	381.100	392.533	404.309	416.438	428.931	441.799	455.053	468.705	482.766	497.249	512.167	527.532	543.357	559.658	576.448	593.741	611.554	629.900	
Lease / Pachtkosten	200.000	200.000	200.000	200.000	200.000	200.000	200.000	200.000	200.000	200.000	200.000	200.000	200.000	200.000	200.000	200.000	200.000	200.000	200.000	
Opex / Operative Kosten	1.698.000	1.742.940 20.950.628	1.789.228	1.836.905 20.675.808	1.886.012	1.936.593 20.396.708	1.988.690	2.042.351	2.097.622 19.969.237	2.154.550 19.824.202	2.213.187	2.273.582 19.530.013	2.335.790	2.399.864 19.229.970	2.465.859 19.077.613	2.533.835	2.603.850	2.675.966 18.610.487	2.750.245	
- Amortization / - Abschreibung	21.086.539 5.466.667	5.466.667	20.813.732 5.466.667	5.466.667	20.536.815 5.466.667	5.466.667	20.255.441	20.112.966 5.466.667	5.466.667	5.466.667	19.677.812 5.466.667	5.466.667	19.380.750 5.466.667	5.466.667	5.466.667	18.923.621	18.767.933	18.610.487	18.451.218	18.290.060
- Amortization / - Adscrireibung EBIT	15.619.872	15.483.961	15.347.065	15.209.142		14.930.041	5.466.667 14.788.774	14.646.300	14.502.570		14.211.145			13.763.303	13.610.946	18.923.621	18.767.933	18.610.487	18.451.218	18,290.060
- Interest amount / -Zinskosten	6.341.709	5.433.269	4.450.699	3.387.953	2.238.486	995.223	14.700.774	14.646.300	14.502.570	14.337.336	14.211.145	14.003.340	13.914.084	13.763.303	13.010.940	18.923.621	16.767.933	18.010.487	10.451.218	
EBT	9.278.164	10.050.693		11.821.189		13.934.819	-	-	14.502.570	-		_	-	13.763.303	13.610.946	18.923.621	-	18.610.487		
P/L before tax / Gewinn, Verlust vor Steu		10.050.693	10.896.365	11.821.189		13.934.819		14.646.300	14.502.570		14.211.145			13.763.303	13.610.946	18.923.621	18.767.933	18.610.487	18.451.218	
Corporate tax / Unternehmenssteuer	0.276.104	10.030.093	10.050.303	11.021.109	12.031.003	13.934.019	14.766.774	14.040.300	0	14.337.330	14.211.143	14.003.340	13.514.004	13.703.303	13.010.540	10.923.021	10.707.933	10.010.407	10.431.210	
Other taxes / Andere Steuern	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0	
Profit / Loss / Gewinn / Verlust	9.278.164	10.050.693		11.821.189		13.934.819								13.763.303		18.923.621				
Accumulated P/L / Kummulierter Gewins		19.328.856		42.046.411		68.812.892							169.296.646							
			SOILESIELE				0510021000										ED HOUET ISO			EGST ETTER
Cash Flow / Bargeldumlauf	0.000.444			44 004 400	40.004.660	40.004.040	44 700 774		44 500 570	44.057.505				40 840 000	40.040.040	40 000 004	40 303 000	10 010 100	40 454 040	
Profit Loss / Gewinn Verlust	9.278.164	10.050.693	10.896.365	11.821.189		13.934.819		14.646.300	14.502.570		14.211.145			13.763.303	13.610.946	18.923.621	18.767.933	18.610.487	18.451.218	18.290.06
+ Amortization / + Abschreibung	5.466.667	5.466.667	5.466.667 16.363.032	5.466.667	5.466.667 18.298.330	5.466.667	5.466.667 20.255.441	5.466.667	5.466.667 19.969.237	5.466.667 19.824.202	5.466.667 19.677.812	5.466.667 19.530.013	5.466.667 19.380.750	5.466.667	5.466.667	18.923.621	18.767.933	18.610.487	18.451.218	10 200 00
Available Cash Flow / Verfügbare Mittel - Repayment /- Rückzahlung	14.744.830	15.517.359 12.041.288	13.023.857	17.287.856 14.086.604	15.236.070	19.401.485 16.479.334	20.255.441	20.112.966	19.969.237	19.824.202	19.6/7.812	19.530.013	19.380.750	19.229.970	19.077.613	18.923.621	18.767.933	18.010.487	18.451.218	18.290.06
Free Cash flow / Freies Bargeld	3.611.983	3.476.071	3.339.175	3.201.252	3.062.259	2.922.152	20.255.441	20.112.966	19.969.237	19.824.202		_		-	19.077.613	18.923.621	18.767.933	18.610.487	18.451.218	18.290.06
Free Cash flow account / Kummuliertes I		7.088.054		13.628.482					79.950.536				158.363.313							
Debt Services / Schuldendienst Credit sum / Kreditsumme	82.000.000	70.867.153	58.825.865	45.802.008	31.715.404	16.479.334	-0	-0	-0	-0	-0	-0	-0	-0	-0	-0	-0	-0	-0	1 -
- Repayment /- Rückzahlung	11.132.847	12.041.288	13.023.857	14.086.604		16.479.334	-0	-0	-0	-0	-0	-0		-0	-0	-0	-0	-0	-0	
Verbleibende Schulden	70.867.153	58.825.865	45.802.008	31.715.404		-0	-0	-0	-0	-0	-0			-0	-0	-0	-0		-0	
		50.025.003	~J.002.008	31.713.404	40.475.334	-0	-0	-0	-0	-0	-0	-0	-0	-0	-0	-0	-0	-0	-0	
IRR on total investment / interne	20,78%		Above figures	are a rough est	imation and sub	oject to a reviev	w. Subject to ap	proval and exte	rnal credit app	oroval. Therefor	e, not									
Verzinsung der Gesamtinvestition			binding.																	
IRR on equity / Verzinsung Eigenkapital	#ZAHL!		All terms and o	conditions are p	rovided as an in	dication withou	ut any obligatio	n on our part.												



CONTRACT OF ASSIGNMENT OF CLAIMS



AS	SSIGNOR	:
AS	SSIGNEE	:
ΑI	DDRESSEE	:
	-	the assignment of the receivables arising and to arise in favor of the addressee (debtor) to the assignee under the following conditions.
CO	NDITIONS OF ASSIGNMENT	:
1.	assigned the amount of	eclares, accepts and undertakes that he has irrevocably transferred and TL (Turkish Lira) of his receivables that have arisen or will arise, to the Assignee, without any consideration.
2.	stated above on the date of	epts and undertakes that he/she has a receivable from the addressee as f signing this agreement and that he/she has not previously assigned the ment to another real or legal person.
3.	will arise before the abov accepts and undertakes th	cably transfers and assigns all rights and receivables that have arisen and re-mentioned addressee to the assignee
4.		sing between the parties due to the implementation of this contract, the hat the books, records and documents of the assignor are as an exclusive
		rising between the parties due to the implementation of this agreement ree that ISTANBUL Courts and Execution Offices are competent and that agreement//
ASS	IGNOR	ASSIGNEE

TITLE-SIGNATURE

TITLE-SIGNATURE