

IDRC-Firms survey				Notes
COR1	Telephone #			
COR2_1	Result of call	Phone disconnected/ busy	1	Try for up to 3 times
		Not in service	2	
		Did not answer	3	Try for up to 3 times
		Picked up and refused	4	
		Incomplete and refused	5	
		Incomplete and call returned	6	Try for up to 3 times
		Complete	7	
		ineligible	8	
Time_1	Time for first result of call			
Date_1	Date for first result of call			
COR2_2	Result of call	Phone disconnected/ busy	1	Try for up to 3 times
		Not in service	2	
		Did not answer	3	Try for up to 3 times
		Picked up and refused	4	
		Incomplete and refused	5	
		Incomplete and call returned	6	Try for up to 3 times
		Complete	7	
Time_2	Time for second result of call			
Date_2	Date for second result of call			
COR2_3	Result of call	Phone disconnected/ busy	1	Try for up to 3 times
		Not in service	2	
		Did not answer	3	Try for up to 3 times
		Picked up and refused	4	
		Incomplete and refused	5	
		Incomplete and call returned	6	Try for up to 3 times
		Complete	7	
Time_3	Time for third result of call			
Date_3	Date for third result of call			
Consent				

COR3	<p>Good morning/ afternoon/ evening, I am from for Economic Research and on behalf of Economic Research Forum. We are trying to study the possibility of using the renewable energy and its impact on the firms' economy and productivity in "Egypt, Morocco, Tunisia, Jordan" for the purpose of scientific research, and we want to ask you some questions.</p> <p>It will take a few minutes to complete this survey.</p> <p>We guarantee to maintain the confidentiality of the data and use it only for scientific research, and not to share with any party</p> <p>If you have questions, concerns, or complaints, or think the research has hurt you, please contact [01002510883].</p> <p>Do you agree to participate in this survey?</p>		1=Yes; 2=No	If no (=2), end interview										
COR4	Do you agree to be recorded for quality control purposes?		1=Yes; 2=No											
COR5	Currently, How many workers were working in your firm including yourself (paid and unpaid)?	<table border="1"> <tr><td>Less than 5</td><td>1</td></tr> <tr><td>6 to 19</td><td>2</td></tr> <tr><td>20-99</td><td>3</td></tr> <tr><td>100+</td><td>4</td></tr> </table>	Less than 5	1	6 to 19	2	20-99	3	100+	4		if 100+ , end the interview		
Less than 5	1													
6 to 19	2													
20-99	3													
100+	4													
RESP	What is your role in the business?	<table border="1"> <tr><td>Owner</td><td>1</td></tr> <tr><td>General Manager</td><td>2</td></tr> <tr><td>Other senior manager (HR/CFO)</td><td>3</td></tr> <tr><td>Other person who can tell you about the business earnings and employees</td><td>4</td></tr> <tr><td>Someone who cannot tell you about the business earnings and employees</td><td>5</td></tr> </table>	Owner	1	General Manager	2	Other senior manager (HR/CFO)	3	Other person who can tell you about the business earnings and employees	4	Someone who cannot tell you about the business earnings and employees	5		<p>From 1 to 4, skip to COR6</p> <p>If 5, try to reschedule with someone who can</p>
Owner	1													
General Manager	2													
Other senior manager (HR/CFO)	3													
Other person who can tell you about the business earnings and employees	4													
Someone who cannot tell you about the business earnings and employees	5													
ALT_TELNUM	At what number can we reach someone knowledgeable about the firm?		[] number	Ask only if 5 in RESP, then end the interview										
COR6	What is the establishment's main sector of operation?	<table border="1"> <tr><td>Agriculture, fishing or mining</td><td>1</td></tr> <tr><td>Textile & Garments</td><td>2</td></tr> <tr><td>Industry of Food</td><td>3</td></tr> </table>	Agriculture, fishing or mining	1	Textile & Garments	2	Industry of Food	3						
Agriculture, fishing or mining	1													
Textile & Garments	2													
Industry of Food	3													

		Industry of mechanics or electronics or Vehicles or Services of Motor Vehicles	4	
		Leather / Chemical / Petroleum /Plastics / Rubber / metallic Products	5	
		Wood Products, Furniture, Paper & Publishing	6	
		Construction or utilities	7	
		Retail	8	
		Wholesale	9	
		Transportation and storage	10	
		Accommodation and food services	11	
		Information and communication or IT	12	
		Financial activities or real estate	13	
		Education or Health	14	
		Other Manufacturing or services (specify)	15	
COR7	In which governorate is your business located?	01. Tanger-Tetouan-Al Hoceima 02. Oriental 03. Fès-Meknès 04. Rabat-Salé-Kénitra 05. Béni Mellal-Khénifra 06. Casablanca-Settat 07. Marrakech-Safi 08. Drâa-Tafilalet 09. Souss-Massa 10. Guelmim-Oued Noun 11. Laayoune-Sakia El Hamra 12. Eddakhla-Oued Eddahab		
COR8	Is the head office of this establishment located in Urban/Rural?	Urban	1	
		Rural	2	
COR9	Who are the owners/ Top Managers of this establishment? INTERVIEWER: READ EACH CATEGORY	private domestic individuals, companies or organizations	1	
		private foreign individuals, companies or organizations	2	
		government/state	3	End the interview
		other (specify)	4	
COR10	Is the establishment's premises owned or rented	Owned	1	
		rented	2	
		Other (specify)	3	

COR11	In what year did your establishment begin operations? Interviewer: use 998 if "Don't Know", 999 if "Refused".	<input type="text"/> Year		
COR12	What percentage is owned by females? Interviewer: use 998 if "Don't Know", 999 if "Refused". Interviewer: if there are no females among owners please write 0	<input type="text"/> percent		
COR13	How many years of experience working in this field does the Top Manager have? Interviewer: if less than a year, please write 0. Interviewer: use 98 if "Don't Know", 99 if "Refused".	<input type="text"/> Year		
COR14	Is the Top Manager male or female?	Male	1	
		Female	2	
COR15	How old is top manager?	18-29	1	
		30-39	2	
		40-49	3	
		50-59	4	
		60+	5	
		DK	6	
COR16	What is the last educational level that the top manager completed successfully?	Less than primary	1	
		Primary/ Preparatory	2	
		Secondary Technical/ (general or Azhar)	3	
		Intermediate Institute/ Higher Institute	4	
		University	5	
		Above university level	6	
		I don't know	7	
COR17	On average, what is the share of Highly educated workers in the total workforce in this establishment last month 2023? Interviewer: Highly educated means Intermediate Institute/ Higher Institute, or University, or Above university level.	25% or less	1	
		26% to 50%	2	
		51% to 75%	3	
		more than 75%	4	
COR18_0	Does the establishment have a tax registration (formal registration)?	Yes	1	Skip COR18
		No	2	
COR18	In what year was this establishment formally (Taxes Registration) registered? Interviewer: use 998 if "Don't Know", 999 if "Refused".	<input type="text"/> Year		
Firms Labor				Notes
EMP1	How many workers in total (paid/unpaid, or full time/part time) does this establishment have including yourself?	<input type="text"/> Number		If the answer is one, skip to FIR1

EMP2	How many workers are between 18-29 years old? including the top manager	[] Number		
EMP3	<p>At the end of fiscal year [Insert last complete fiscal year], how many permanent, full-time individuals worked in this establishment , and how many part-time workers? Please include all workers and managers.</p> <p>INTERVIEWER: INCLUDE INTERVIEWEE IF APPLICABLE and make sure that the sum add to the total number of workers in EMP1.</p> <p>ENUMERATOR: Use 998 if don't know, 999 if refuse</p> <p>For interviewer: Permanent, full-time workers who are hired continuously for an indefinite period and who typically work the standard number of hours defined as full-time by the organization or by labor law.</p> <p>Part-time workers hired for fewer hours than a standard full-time job, usually without the long-term job security of full-time positions. They may also be seasonal or contract workers.</p>	Permanent, full-time workers	EMP3_1: [] Total Number	EMP3_1_1: [] Number of Females
		Part-time workers	EMP3_2: [] Total Number	EMP3_2_2: [] Number of Females
EMP4	<p>ASK IF MANUFACTURING</p> <p>How many permanent, full-time production workers are currently in this establishment? Interviewer: Use 998 if "Don't Know", 999 if "Refused".</p> <p>Ask only if COR6 =[from 2 to 6] or other [15]. (Manufacturing)</p>		[] Total number	EMP4_1: [] Number of Females
EMP5	<p>How many permanent, full-time workers in this establishment were:</p> <p>Interviewer: Use 998 if "Don't Know", 999 if "Refused".</p>	In highly skilled jobs For interviewer: That is, professionals or technicians whose tasks require extensive theoretical and technical knowledge	EMP5_1: [] Number	
		in semi-medial Skilled jobs For interviewer: That is, jobs whose tasks require some level of mechanical or technical knowledge	EMP5_2: [] Number	
		In low-skilled jobs For interviewer: That is, jobs whose tasks do not	EMP5_3: [] Number	

		require specialized knowledge		
Supplies & Firms Sales				Notes
FIR1	In fiscal year [2022], what percentage of this establishment's purchases of material inputs or supplies were: Interviewer: Use 998 if "Don't Know", 999 if "Refused".	Of domestic origin	FIR1_1: [] Percentage	
		Of foreign origin	FIR1_2: [] Percentage	If 0%, Skip to FIR3
FIR2	Were any of those material inputs or supplies [or finished goods and materials purchased to resell] imported directly?	Yes	1	
		No	2	
		Don't know	3	
FIR3	What was the share of exports over sales in [2022]? Interviewer: Use 998 if "Don't Know", 999 if "Refused", 997 if "Not Applicable". Interviewer: If there are no Exports please write 0	[] percent		

Establishment's Present Situation				Notes
L1	At this time, does this establishment have a checking (current) or savings account?	Yes	1	
		No	2	
		Don't know	3	
L4	Is Access to financing / credit a problem	Yes	1	
		No	2	
Financial inclusion				
L5	Do you have internet access in your enterprise?	Yes	1	
		No	2	
L6	Do you use any mobile banking services?	Yes	1	
		No	2	
L9	Do you use mobile money to send/receive money?	Yes	1	
		No	2	
L11	Do you sell/buy any firm products online?	Yes	1	
		No	2	Skip to G1
L12	How do you receive payment for online sales? (Allow for multiple responses)	Mobile banking app	1	
		E-wallets (Ex: Maroc Pay)	2	
		Cash	3	
		Other (specify)	4	

Connection to the grid				Notes
G1	Is this establishment connected to the grid?	Yes	1	Go to O1
		No	2	
G2	How much did the establishment pay for the grid connection fee? (in MAD) Interviewer: Use 9998 if "Don't Know", 9995 if "The establishment was already connected".	[_] Amount in Moroccan Dirham		
G3	Who do you currently pay for your electricity service from the grid?	Pre-paid meter recharge card vendor	1	
		Community/village/municipality	2	
		Relative	3	
		Neighbor	4	
		Landlord	5	
		No one (for free)	6	
		Electricity company	7	
		Other (specify)	8	
G4	How do you make your electricity bill payment? (Allow for multiple responses)	Bill Collector	1	
		E-wallets (Ex: Maroc Pay)	2	
		Mobile payments app (Ex: PayPal)	3	
		Pay at the utility office	4	
		Pay at the bank/post office	5	
		Other (specify)	6	
G5	How often can you pay your electricity bill?	Weekly	1	
		Every two weeks	2	
		Monthly	3	
		As often as I want	4	
G6	In the last month, how much did you spend on electricity? (cost in Moroccan Dirham) Interviewer: Use 9998 if "Don't Know", 9999 if "Refused".	[_] Amount in Moroccan Dirham		
G7	What was that as a share of your establishment operation cost (in percentage)? Interviewer: use 998 if "Don't Know", 999 if "Refused".	[_] percentage		
G8	What are the worst months for service from the grid?	January	1	
		February	2	
		March	3	
		April	4	
		May	5	

		June	6	
		July	7	
		August	8	
		September	9	
		October	10	
		November	11	
		December	12	
		All months are the same	13	
G9	How many hours of electricity do you use in day from the grid? (cannot exceed 24 hours)	[_] Hours of use		
G10	In a typical month, how many outages/blackouts of the grid happen?	Daily	1	
		Once/Twice a Week	2	
		Once/Twice a Month	3	
		Never	4	Skip G11
G11	On average , what is the total duration of all the outages/blackouts (Daily / Weakly / Monthly)? Interviewer: (Daily / Weakly / Monthly) Based on the answer in G10	[_] Number of hours		
G13	What is your main back-up source of electricity during outages from the grid?	Generator	1	
		Batter or storage device	2	
		Solar home system	3	
		Solar lantern/lighting system	4	
		Kerosene lamp	5	
		Candle	6	
		Torch/flashlight	7	
		Other (specify)	8	
		Nothing	9	
G14	During the last power outage, what were the main ways the establishment was affected? (Allow for multiple responses)	Wasted perishable products/discarded damaged goods	1	
		Machines/appliances were damaged	2	
		Could not operate establishment	3	
		Could not serve customers	4	
		No Problems	5	
		Other (specify)	8	
G15	In the last 12 months, did any of the establishment's appliances get damaged because of voltage fluctuations?	Yes	1	
		No	2	
		Don't know	3	
G16	What is the most serious problem you experience with electricity from the grid?	Supply shortage/not enough hours of electricity	1	
		Voltage fluctuations	2	

		Unpredictable interruptions	3	
		Unexpectedly high bills (Irregularly)	4	
		Too expensive (Regularly)	5	
		Do not trust the supplier	6	
		Cannot power large appliances	7	
		Maintenance/service problems	8	
		Other (specify)	9	
		No problems	10	
Electricity Other Sources				Notes
O1	In the last 12 months, did the establishment use a generator to supply electricity?	Yes	1	
		No	2	
O2	In the last 12 months, did the establishment use any rechargeable batteries, such as car batteries, for electricity?	Yes	1	
		No	2	

Awareness of Energy transition				Notes
	Are you familiar with the following terms			
AW1	Clean Energy	Yes	1	
		No	2	
AW2	Renewable energy	Yes	1	
		No	2	
system Willingness to pay for a solar PV				Notes
W1	Have you personally considered using clean energies (solar energy / wind energy) for your business?	Yes	1	
		No	2	
		I am using it	3	move to w2
		I know nothing about it	4	
W2	If you employ renewables (solar energy / wind energy), do you pay any tariffs on the final product or spare parts? only for those answered 3 in W1	Yes	1	If W1=3
		No	2	
W3	If you were offered the establishment of a solar energy system to meet your electricity needs at the same price as electricity today, and you were given the option to complete the payments in monthly installments. On how many monthly installments accept the offer Interviewer: Don't read the options	six months	1	
		12 months	2	
		24 months or more	3	
		I won't accept	4	
W4	Why are you not willing to pay this amount? (Main reason)	Cannot afford the payment	1	If W3=4
		Do not need electricity	2	
		Electricity service is unreliable	3	
		Monthly fee is too expensive	4	
		The landlord won't accept	5	

		Other (specify)	6	
TAM-UTAUT				
Perceived Usefulness				Notes
	<p>Please rate the following statements on a scale of 1 to 5 about willingness to use clean renewable energy, such as solar energy / wind energy / hydro energy, where 1 represents "Strongly Disagree" and 5 represents "Strongly Agree."</p> <p>So that it will be for the Interviewer:</p> <p>1) Strongly Disagree 2) Disagree 3) Neutral 4) Agree 5) Strongly Agree</p>			
TAM1	Adopting renewable energy technologies would improve our overall energy efficiency.		<input type="checkbox"/>	
TAM2	The use of renewable energy technologies would enhance our daily operations.		<input type="checkbox"/>	
TAM3	Renewable energy technologies would make a positive impact on the environment.		<input type="checkbox"/>	
TAM4	Renewable energy technologies would reduce our energy costs.		<input type="checkbox"/>	
Perceived Ease of Use				Notes
TAM5	Our staff finds renewable energy technologies easy to understand and operate.		<input type="checkbox"/>	
TAM6	The installation and maintenance of renewable energy technologies seem hassle-free to our company.		<input type="checkbox"/>	
Social Influence				Notes
TAM7	Recommendations from other businesses in our industry would encourage us to adopt renewable energy technologies.		<input type="checkbox"/>	
TAM9	Government incentives and policies that support the adoption of renewable energy influence our decision-making.		<input type="checkbox"/>	
Facilitating Conditions				Notes
	<p>Please rate the following statements on a scale of 1-5, where 1 represents "strongly disagree" and 5 represents "strongly agree."</p>			
TAM10	We have access to the necessary infrastructure and resources to adopt renewable energy technologies.		<input type="checkbox"/>	
TAM11	The cost of implementing renewable energy technologies is within our financial means.		<input type="checkbox"/>	
TAM13	We are aware of government incentives and policies that support the adoption of renewable energy technologies.		<input type="checkbox"/>	
TAM14	The availability of renewable energy technology providers in our area is sufficient.		<input type="checkbox"/>	
Behavioral Intention				Notes
TAM15	We plan to invest in renewable energy technologies.		<input type="checkbox"/>	

Business Environment				Notes
	In a scale from 1 to 5, where 1 is "Completely Not Satisfied" and 5 is "Completely Satisfied". So that it will be to the interviewer: 1) Completely Not Satisfied 2) Not Satisfied 3) Neutral 4) Satisfied 5) Completely Satisfied			
M1	To what extent are you satisfied with the electricity service provided by the government?		<input type="checkbox"/>	
M2	To what extent are you satisfied with the bill based on the service you receive		<input type="checkbox"/>	
Access to information				Notes
M9	What information would be useful to you to help you manage, and make better decisions regarding, your energy consumption? (Interviewer: Read each choice). Allow for multiple choices.	Information on electricity outages/load shedding schedule	1	
		Information on changes in fuel prices	2	
		Information on changes in electricity tariffs	3	
		Information on prices for back-up generation	4	
		Information on financing options	5	
		Information on scheduled maintenance for the grid	6	
		Other (specify)	7	
Expectations from the government				Notes
M11	Should the cost of electricity be subsidized?	Yes	1	
		No	2	skip M12
		Don't know	3	skip M12
M12	If yes, should the subsidy be universal or targeted?	Universal	1	
		Targeted	2	
		Don't know	3	
M13	Should electricity from renewable sources be subsidized?	Yes	1	
		No	2	
		Don't know	3	
M14	How do you usually hear/learn about the government's grid expansion plans/projects?	Newspapers	1	
		Radio	2	
		Television	3	
		Billboards	4	
		WhatsApp	5	
		Word of Mouth	6	
		Community meetings	7	
		Mosque/Church/Place of worship	8	
		Other (specify)	9	
I never hear of the government's projects	10			

Post-materialism index				Notes
Regarding the goals of this country for the next 10 years, below are some of the objectives that people consider as top priority				
First list				
M16	Which one of these do you consider the most important? INSTRUCTOR: READ ALL OPTIONS EXCEPT "Don't know"	High level of economic growth	1	
		Making sure the country has strong defence forces	2	
		Seeing that people have more say about how things are done in their jobs and their communities	3	
		Trying to make our cities and countryside more beautiful	4	
		Don't know	6	
Second list				
M17	Which one of these do you consider the most important? INSTRUCTOR: READ ALL OPTIONS EXCEPT "Don't know"	Maintaining order in the nation	1	
		Giving people more say in important government decisions	2	
		Fighting rising prices	3	
		Protecting freedom of speech	4	
		Don't know	6	
Third list				
M18	Which one of these do you consider the most important? INSTRUCTOR: READ ALL OPTIONS EXCEPT "Don't know"	A stable economy	1	
		Progress toward a less impersonal and more human society	2	
		Progress toward a society in which ideas count more than money	3	
		The fight against crime	4	
		Don't know	6	
Firms Revenue				Notes
FIR4	What category was the establishment's total annual sales/revenue In fiscal year [Insert last complete fiscal year]? Enumerator: read all the options except refuse and don't know	20,000,000 dirham or more	1	
		4,000,000 to less than 20,000,000 dirham	2	
		500,000 to less than 4,000,000 dirham	3	
		250,000 to less than 500,000 dirham	4	
		0 to less than 250,000 dirham	5	
		Refuse	9	
		Don't know	10	