





1.5 Million Natural Gas Connections Project in 11 Governorates

Site-Specific Environmental and Social Impact Assessment



Egyptian Natural Gas Holding Company

Executive Summary
El Hadtha/Qalubia Governorate
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Developed by





EcoConServ Environmental Solutions

Petrosafe
Petroleum Safety & Environmental Services
Company



EXECUTIVE SUMMARY

1 Introduction

The Government of Egypt (GoE) has immediate priorities to increase household use of natural gas (NG) by connecting 1.2 million households/yr to the gas distribution network to replace the highly subsidized, largely imported Liquefied Petroleum Gas (LPG).

The GoE is implementing an expansion program for Domestic Natural Gas connections to an additional 1.5 Million households over the next 4 years. The project presented in this study is part of a program that involves extending the network and accompanying infrastructure to connect 1.5 million Households in 11 Governorates between 2016 and 2019 with the assistance of a World Bank Loan of up to US\$500 Million and the Agence Française de Développement (French Agency for Development) financing of up to €70 Million. The program is estimated to cost US\$850 Million.

The ESIA objectives are as follows:

- Describing project components and activities of relevance to the environmental and social impacts assessments
- Identifying and addressing relevant national and international legal requirements and guidelines
- Describing baseline environmental and social conditions
- Presenting project alternatives and no project alternative
- Assessing potential site-specific environmental and social impacts of the project
- Developing environmental & social management and monitoring plans in compliance with the relevant environmental laws
- Documenting and addressing environmental and social concerns raised by stakeholders and the Public in consultation events and activities

As the project involves components in various areas within the 11 governorates, the parties to the project agreed that Site-Specific Environmental and Social Impact Assessments (SSESIAs) for each of the project sub-areas within the governorate will be prepared. Guided by the 2013 Environmental and Social Impact Assessment Framework (ESIAF) and Supplementary Social Impact Assessment Framework (SSIAF), this is the site specific ESIA for the connections network planned for El Hadtha in Qalubia Governorate. The project in El Hadtha encompasses 10,000 households' connections to be connected over 3 years: 1,000 in year 1; 5,000 in year 2; and 4,000 in year 3.

The local distribution company responsible for project implementation in El Hadtha is Egypt Gas





2 Project Description

2.1 Background

Natural Gas is processed and injected into the high pressure lines of the national Grid (70 Bar) for transmission. Upon branching from the main lines to regional distribution networks, the pressure of the NG is lowered to 7 Bar at the Pressure Reduction Stations (PRS). An odorant is added to the NG at PRSs feeding distribution networks to residential areas in order to facilitate detection. Regulators are then used to further lower the pressure to 100 mbar in the local networks, before finally lowering the pressure to 20 mbar for domestic use within the households. In addition to excavation and pipe laying, key activities of the construction phase also include installation of pipes on buildings, internal connections in households, and conversion of appliance nozzles to accommodate the switch from LPG to NG.

2.2 Project Work Packages

2.2.1 Main feeding line/network "7 bar system – PE 100"

A gas distribution piping system that operates at a pressure higher than the standard service pressure delivered to the customer. In such a system, a service regulator is required to control the pressure delivered to the customer.

Main feeding lines are mainly constructed from polyethylene pipes (HDPE) with maximum operating pressure (MOP) below 7 bar.

2.2.2 Distributions network "Regulators, PE80 Networks"

A gas distribution piping system in which the gas pressure in the mains and service lines is substantially the same as that delivered to the customer's Meters. In such a system, a service regulator is not required on the individual service lines.

Distribution networks are mainly constructed from polyethylene pipes (MDPE) with MOP below 100 millibar.

2.2.3 Installations (Steel Pipes)

A gas distribution piping system consist of steel pipes which are connected from individual service line to vertical service pipe in a multistory dwelling which may have laterals connected at appropriate floor levels; in addition to service pipe connected to a riser and supplying gas to a meter and gas appliances on one floor of a building.

Internal Installation consists of a pipe connecting the pressure reducing regulator/district Governor and meter Outlet (MOP 25 millibar) to appliances inside the customer's premises.

2.2.4 Conversions

Conversions involve increasing the diameter of the nozzle of the burner of an appliance to work with natural gas as a fuel gas rather LPG or others

¹ Because natural gas is odorless, odorants facilitate leak detection for inhabitants of residential areas.





3 Legislative and Regulatory Framework

3.1 Applicable Environmental and Social Legislation in Egypt

- Law 217/1980 for Natural Gas
- Law 4 for Year 1994 for the environmental protection, amended by Law 9/2009 and law 105 for the year 2015. Executive Regulation (ER) No 338 for Year 1995 and the amended regulation No 1741 for Year 2005, amended with ministerial decree No 1095/2011, ministerial decree No 710/2012, ministerial decree No 964/2015, and ministerial decree No 26/2016
- Law 38/1967 for General Cleanliness
- Law 93/1962 for Wastewater
- Law 117/1983 for Protection of Antiquities
- Traffic planning and diversions
 - o Traffic Law 66/1973, amended by Law 121/2008 traffic planning
 - o Law 140/1956 on the utilization and blockage of public roads
 - Law 84/1968 concerning public roads
- Work environment and operational health and safety
 - O Articles 43 45 of Law 4/1994, air quality, noise, heat stress, and worker protection
 - o Law 12/2003 on Labor and Workforce Safety
 - o Book V on Occupational Safety and Health (OSH)
 - o Minister of Labor Decree 48/1967.
 - o Minister of Labor Decree 55/1983.
 - o Minister of Industry Decree 91/1985
 - o Minister of Labor Decree 116/1991.

3.2 World Bank Safeguard Policies

Three policies are triggered for the project as a whole: Environmental Assessment (OP/BP 4.01), Physical Cultural Resources (OP/BP 4.11), and Involuntary Resettlement (OP/BP 4.12).

However, OP/BP 4.12 will not be applicable to El Hadtha as no land acquisition or resettlement is anticipated. Particularly, as the network will pass through the main urban roads/streets and side roads without causing any damage to private assets or lands.

In addition to the above mentioned safeguards policies, the Directive and Procedure on Access to Information² will be followed by the Project.

4 Analysis of Alternatives

4.1 No Project Alternative

This Natural Gas Connections to Households Project is expected to yield many economic and social benefits in terms of providing a more stable energy source, achieving savings in LPG consumption and enhancing safety in utilizing energy.



² https://policies.worldbank.org/sites/ppf3/PPFDocuments/Forms/DispPage.aspx?docid=3694



The No-Project alternative is not favored as it simply deprives the Egyptian Public and Government of the social, economic, and environmental advantages.

4.2 Energy Alternatives

- Maintain LPG Use: Introduction of piped natural gas to replace LPG will help to remove subsidies and reduce imports. The proposed project would also improve the safety of gas utilization as appliance standards are strictly controlled and only qualified personnel carry out installations and respond to emergencies. In the case of LPG, installations are not carried out by trained personnel resulting in possible unsafe installations and unsafe use of LPG.
- Convert to Electricity: The second alternative is to convert all homes to use electricity for all energy supply applications. Additional power stations would be needed to cope with the additional demand created by utilization of electricity in homes, which most probably would operate also by natural gas. Power losses in transmission and distribution are also significantly higher than their natural gas equivalents which would add to the overall inefficiency.
- **Use Renewables**: the renewables market does not present feasible, practical, and affordable alternatives to connecting 1.5 million households at this point in time in Egypt. Biogas requires large amounts of agricultural and domestic waste, while solar panels and heaters remain in pilot phase.

Energy alternatives do not provide favorable options to the proposed NG networking

4.3 Installation Costs

The average natural gas connection installation cost is about 5600 EGP and consumers contribute a part of 1700 LE because the connection is heavily subsidized by the Government. This payment can be made either upfront or in installments over a period of time. Installment schemes are available to all community people.

The government of Egypt is negotiating with the project's financing organizations in order to secure additional subsidy to poor and marginalized groups. They also provide facilitation payments strategies through offering various installment schemes. The following are the main types of installments: 138 EGP/Month for 12 months,74 EGP/Month for 24 months, 52 EGP/Month for 36 months, 42 EGP/Month for 48 months, 35 EGP/Month for 60 months, 31 EGP/Month for 72 months and 28 EGP/Month for 84 months





5 Environmental and Social Impacts and Mitigations

The environmental and social advantages of switching household fuel from LPG cylinders to natural gas pipelines are diverse. On the residential level, the proposed project will lead to improved safety, reduced physical/social/financial hardships, and secure home fuel supply. On the national level, it promotes the utilization of Egyptian natural resources and reduces the subsidy and import burden. Even on the global level, the project involves cleaner fuel with reduced carbon footprint.

A thorough analysis of environmental and social impacts is important to detail an effective management and monitoring plan which will minimize negative impacts and maximize positives.

The assessment of impacts distinguishes between the construction phase and the operation phase.

5.1 Positive Impacts

5.1.1 During the construction phase

Provide direct job opportunities to skilled and semi-skilled laborers

- The project is expected to result in the creation of job opportunities, both directly and indirectly. Based on similar projects implemented recently by EGAS and the local distribution company, the daily average number of workers during the peak time will be about 125 workers.
- The total number of new short term job opportunities within the project areas is estimated at 130-150 temporary jobs.
- In order to maximize employment opportunities in the local communities it is anticipated that training will be required for currently unskilled workers. On-the-job training will also supplement opportunities for the local workforce for both temporary construction roles and also for long-term operation phase positions, where these are available.

Create indirect opportunities

• As part of the construction stage, a lot of indirect benefits are expected to be sensed in the targeted areas due to the need for more supporting services to the workers and contractors who will be working in the various locations. This could include, but will not be limited to accommodation, food supply, transport, trade, security, manufacturing... etc.

5.1.2 During the operation phase

• As indicated in the Baseline Chapter, women are key players in the current domestic activities related to handling LPG and managing its shortage. Being the party affected most from the shortfalls of the use of LPG, the NG project is expected to be of special and major benefits to women. This includes, but is not limited to, clean and continuous source of fuel that is safe and does not require any physical effort and is very reasonable in terms of consumption cost. Time saving is among the benefits to women. The use of



a reliable source of energy will allow women to accomplish the domestic activities in less time and this will potentially open a space for better utilization of the saved time.

- Constantly available and reliable fuel for home use.
- Reduced expenditure on LPG importation and subsidies, as 10 thousand connections will be installed in the area. Each household consumes 2.5 LPG cylinder monthly. Accordingly, the total number of LPG cylinders consumed is about 25 thousand LPG cylinders per month. The subsidy value is about 70 EGP per each LPG cylinder. Consequently, the total saved monthly subsidy will be about 1.75 million EGP monthly. This will result in total annual savings of 21 million EGP.
- Significantly lower leakage and fire risk compared to LPG.
- Improved safety due to low pressure (20 mBar) compared to LPG cylinders.
- Beneficiaries to benefit from good customer service and emergency response by qualified personnel/technicians.
- Eliminate the hardships that special groups like the physically challenged, women, and the elderly had to face in handling LPG.
- Limiting possible child labor in LPG cylinder distribution

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5.2 Anticipated Negative Impacts

5.2.1 Impact Assessment Methodology

To assess the impacts of the project activities on environmental and social receptors, a semi-quantitative approach based on the Leopold Impact Assessment Methodology with the Buroz Relevant Integrated Criteria was adopted.

The table below presents the classification of impact ratings and respective importance of impact values.

Importance of Impact	Impact rating	
0-25	None or irrelevant (no impact);	
26-50	Minor severity (minimal impact; restricted to the work site and immediate surroundings)	
51-75	Medium severity (larger scale impacts: local or regional; appropriate mitigation measures readily available);	
76-300	Major severity (Severe/long-term local/regional/global impacts; for negative impacts mitigation significant).	

The following tables summarize the impacts and the corresponding mitigation measures within the management plan, in addition to the monitoring plans proposed for implementation.





5.3 Environmental and Social Management Matrix during CONSTRUCTION

Table 1: Environmental and Social Management Matrix during CONSTRUCTION

Receptor	Impact	Mitigation measures	Implemented by	Direct supervision	Means of supervision	Estimated Cost of mitigation / supervision
		Excavation during off-peak periods Time limited excavation permits granted by local unit & traffic department	Excavation contractors	_ LDC + _ Traffic department	Contractor has valid conditional permit + Field supervision	
	Announcements + Signage indicating location/duration of works prior to commencement	_ LDC _ Excavation contractors	 LDC HSE Local Unit Traffic department 	Ensure inclusion in contract + Field supervision	Contractor costs LDC management costs	
Local traffic and accessibility	and associated	Apply Horizontal Directional Drilling under critical intersections whenever possible to avoid heavy traffic delays	Contractor	LDC HSE	Field supervision	
	Traffic detours and diversion			Field supervision for detouring efficiency Complaints received from traffic department	A 112	
		Road restructuring and closing of lanes		Traffic Department	Fluidity of traffic flow	Additional budget not required





Receptor	Impact	Mitigation measures	Implemented by	Direct supervision	Means of supervision	Estimated Cost of mitigation / supervision
	Increased	Controlled wetting and compaction of excavation/backfilling surrounding area			Contractual clauses + Field supervision	_ Contractor
Ambient air quality	emissions of dust and gaseous pollutants	Isolation, covering, transportation and disposal of stockpiles	Excavation Contractor	LDC HSE	Contractual clauses + Field supervision	costs LDC management
		Compliance to legal limits of air emissions from all relevant equipment			Measure and document emissions of machinery by regular audits request emission measurements	costs
		Ear muffs, ear plugs, certified noise PPE for workers			Contractual clauses + Field supervision (audits)	
_ Ambient noise levels _ Local community _ Workers	Increased noise levels beyond WB/National permissible levels	Avoid noisy works at night whenever possible	_ LDC _ Excavation Contractor	LDC HSE	Field supervision Complaints receipt from local administration	Contractor costs LDC management costs





Receptor	Impact	Mitigation measures	Implemented by	Direct supervision	Means of supervision	Estimated Cost of mitigation / supervision
_ Ground utilities' integrity _ Local community	Damage to underground utilities resulting in water & wastewater leaks, telecommunicati on and electricity interruptions	Coordination with departments of potable water, wastewater, electricity, and telecom authorities to obtain maps/ data on depth and alignment of underground utilities, whenever available If maps/data are unavailable: Perform limited trial pits or boreholes to explore and identify underground utility lines using non-intrusive radio- cable and pipe locators	Excavation Contractor	LDC HSE Supervisor	Official coordination proceedings signed by representatives of utility authorities - Examination of site- specific reports and records - Field supervision - Contractual clauses + Field supervision	Contractor management costs LDC management costs
		Preparation and analysis of accidental damage reports		LDC HSE	_ Review periodic HSE reports	
		Repair and rehabilitation of damaged components		LDC HSE Local Government Unit Local Police	Contractual clauses + Field supervision	





Receptor	Impact	Mitigation measures	Implemented by	Direct supervision	Means of supervision	Estimated Cost of mitigation / supervision
_ Streets (physical status) _ local community and workers (health and safety)	Hazardous waste	Temporary storage in areas with impervious floor Safe handling using PPE and safety precautions Transfer to LDC depots for temporary storage Disposal at licensed Alexandria hazardous waste facilities (Nasreya or UNICO) Hand-over selected oils and lubricants and their containers to Petrotrade for recycling	_ LDC _ Excavation Contractor	LDC HSE	Field supervision and review of certified waste handling, transportation, and disposal chain of custody	Indicative cost items included in contractor bid: Chemical analysis of hazardous waste Trucks from licensed handler Pre-treatment (if needed) Disposal cost at Nasreya Approximate cost of the above (to be revised upon project execution): 8,000-10,000 LE per ton
		Adequate management of asbestos and any possible hazardous waste	Water Authority + contractor		Field supervision + review of Water Authority manifests	_ Contractor costs _ LDC management costs
		_ Minimize fueling, lubricating and any activity onsite	_ LDC _ Excavation Contractor		Field supervision	





Receptor	Impact	Mitigation measures	Implemented by	Direct supervision	Means of supervision	Estimated Cost of mitigation / supervision
_ Local community	Non-hazardous waste accumulation	 Designate adequate areas on- site for temporary storage of backfill and non-hazardous waste Segregate waste streams to the extent possible to facilitate re- use/recycling, if applicable Reuse non- hazardous waste to the extent possible Estimate size of fleet required to transport wastes. Transfer waste to Abu Zaabal disposal facility East of El Hadtha Area 	_ LDC _ Excavation Contractor	LDC HSE	 Contractual clauses Monitoring of waste management plan Field supervision 	_ Contractor costs _ LDC management costs
Local community	Destruction of streets and pavement	 Arrange Restoration and re-pavement with local unit Communication with local community on excavation and restoration schedules. 	_ LDC in cooperation with the LGU	EGAS	Field supervisionCoordination withLGU as needed	Included in repavement budget agreed by LDC with local units or Roads and Bridges Directorate





Receptor	Impact	Mitigation measures	Implemented by	Direct supervision	Means of supervision	Estimated Cost of mitigation / supervision
Occupational health and safety	Health and safety	1. Full compliance to EGAS and LDC HSE requirements, manuals, and actions as per detailed manuals developed by Egypt Gas 2. Ensure the provision of the appropriate personal protective Equipment and other equipment needed to ensure compliance to HSE manuals	Excavation Contractor	LDC HSE and EGAS SDO	Field supervision	_ Contractor costs _ LDC management costs
Local communities and businesses	Lack of accessibility to businesses due to delay in street rehabilitation	Compliance with the Environmental management plan concerning timely implementation of the construction schedule to minimize impact on local business • Follow up the procedure of Grievance Redress Mechanism • Ensure transparent information sharing	During digging process LDC The sub- contractors	LDC and EGAS SDO	Ensure the implementation of GRM Supervision on Contractors performance	No cost



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Receptor	Impact	Mitigation measures	Implemented by	Direct supervision	Means of supervision	Estimated Cost of mitigation / supervision
Local community Health and safety	Threat to Safety of users and houses (due to limited level of awareness and misconceptions)	Prepare Citizen engagement and stakeholder plan Awareness raising campaigns should be tailored in cooperation with the community- based organizations	During the construction LDC	LDC and EGAS SDO	List of awareness activities applied Lists of participants Documentation with photos Awareness reports	 2250 \$ per awareness raising campaign 2250 \$ for brochure and leaflets to be distributed (material available by EGAS-\$ spent)





5.4 Environmental and Social Monitoring Matrix during CONSTRUCTION

Table 2: Environmental and Social Monitoring Matrix during CONSTRUCTION

Receptor	Impact	Monitoring indicators	Responsibility of monitoring	Frequency of monitoring	Location of monitoring	Methods of monitoring	Estimated Cost of monitoring
Local traffic and accessibility	Reduction of traffic flow and accessibility to local community	Comments and notifications from Traffic Department	LDC HSE	Monthly during construction.	Construction site	Documentation in HSE monthly reports Complaints log	LDC management costs
Ambient air quality	Increased air emissions	HC, CO% and opacity	LDC HSE	Once before construction + once every six months for each vehicle	Vehicles licensing Department	Measurements and reporting of exhaust emissions of construction activities machinery Complaints log	LDC management costs
Ambient noise levels	Increased noise levels	Noise intensity, exposure durations and noise impacts	LDC HSE	Regularly during site inspections and once during the night in every residential area or near sensitive receptors such as hospitals	Construction site	Measurements of noise levels Complaints log	LDC management costs
		Complaints from residents	LDC HSE	Monthly during construction.	Construction site	Documentation in HSE monthly reports	LDC management costs
Underground utilities	Damages to underground utilities and infrastructure	Official coordination reports with relevant authorities Accidents documentation	LDC HSE	Monthly during construction.	Construction site	Documentation in HSE monthly reports	LDC management costs





Receptor	Impact	Monitoring indicators	Responsibility of monitoring	Frequency of monitoring	Location of monitoring	Methods of monitoring	Estimated Cost of monitoring
Physical state of street	Waste generation	Observation of accumulated waste piles	LDC HSE	During construction. Monthly reports	Construction site	Observation and documentation	LDC management costs
		Observation of water accumulations resulting from dewatering (if encountered)	LDC HSE	During construction. Monthly reports	Around construction site	Observation and documentation	LDC management costs
		Chain-of-custody and implementation of waste management plans	LDC HSE	Zonal reports	Construction site and document examination	Site inspection and document inspection	LDC management costs
Local community	Damaging to the streets	 Streets quality after finishing digging Number of complaints due to street damage 	LDC, EGAS	Four times per year, each three months	Site and Desk work	Checklists and complaints log	No cost
Local community	Threat to Safety of users and houses (due to limited level of awareness and misconceptions)	 Number of awareness raising implemented Number of participants in information dissemination 	LDC, EGAS	Quarterly monitoring	Office	Reports Photos Lists of participants	No cost





5.5 Environmental and Social Management Matrix during OPERATION

Table 3: Environmental and Social Management Matrix during OPERATION

Receptor	Impact	Mitigation measures	Responsibility of mitigation	Responsibility of direct supervision	Means of supervision	Estimated Cost of mitigation / supervision
 Ambient air quality Community health and safety 	Network integrity	 Detailed review of the geotechnical and geological history of the project area Development of a full emergency response plan in case of rare events which exhibit multiple simultaneous impacts Random inspections and communication/awareness actions to ensure that NG piping and components (both inside the household and outside) are not be altered, violated, or intruded upon in any way without written approval from, or implementation of the alteration by, the LDC. 	LDC	LDC HSE.	 Map and local geotechnical report review Site inspections Awareness actions Periodical trainings and drills 	LDC management costs
Ambient air qualityCommunity health and safety	Repairs and maintenance (network and households)	As with construction phase activities	_ LDC _ Excavation Contractor	LDC HSE	As relevant from construction phase	LDC management costs
Economically disadvantaged Community members	Financial burden on economically disadvantaged due to the installments	 Petro Trade should collect the installment immediately after the installation of NG The installments should be collected on monthly basis in order not to add burden to the poor, as it will be easier for them to pay on monthly basis The installment should not be high 	Petro trade (Company responsible for collecting the consumption fees and the installments	EGAS	Banks loans log Complaints raised by poor people due to the frequency of collecting the installments	No cost



Receptor	Impact	Mitigation measures	Responsibility of mitigation	Responsibility of direct supervision	Means of supervision	Estimated Cost of mitigation / supervision
Informal LPG distributors	Loss of revenue for LPG distributors	 LPG distributors should be informed about the NG potential areas in order to enable them to find alternative areas They should be informed about the GRM in order to enable them to voice any hardship 	Butagasco	EGAS	Information sharing activities with the LPG vendors Grievances received from them	No cost
Community health and safety	Possibility of Gas leakage	 Information should be provided to people in order to be fully aware about safety procedures The hotline should be operating appropriately People should be informed of the Emergency Numbers 	LDC	LDC	Complaints raised due to Gas leakage	No cost





5.6 Environmental and Social Monitoring Matrix during OPERATION

Table 4: Environmental and Social Monitoring Matrix during OPERATION

Impact	Monitoring indicators	Responsibility of monitoring	Monitoring Frequency	Location of monitoring	Methods of monitoring	Monitoring Estimated Cost
Network integrity	 Earthquakes or geotechnical settlements Emergency response time and corrective actions during emergency drills Reports of alteration or tampering with ANY gas components 	LDC HSE	Bi-annual inspections and annual emergency response drills	Along the network and inside and outside households	- Inspection, leakage detection, running the drills	LDC management costs
Financial burden on economically disadvantaged due to the installments	 Number of economically disadvantaged people who complained Number of those who can't pay the installment 	LDC and Petro Trade, EGAS	Quarterly	Desk work	Complaints logBank reportsPetro trade reports	No cost
Impact on the informal LPG distributors	Grievance received from the informal LPG distributorsInformation shared with them	EGAS, LDC	Quarterly	Desk work	- Complaints log	No cost
Possibility of Gas leakage	Complaints raised by the community peopleNumber of leakage accidents reported/raised	LDC, EGAS	Four times per year, each three months	Site and Desk work	Complaints log LDC	No cost







6 Stakeholder Engagement and Public Consultation

The public consultation chapter aims to highlight the key consultation and community engagement activities that took place as part of the preparation of the ESIAs and their outcomes. Following are the main groups consulted during the SSESIA and the engagement tools used.

Table 5: Summary of Consultation Activities in El Hadtha area

Participants	Number		Methods	Date
During the site specific study	Male	Female		
Government officials	3	1	In-depth	
Health centers	2			
NGOs	2		In-depth	
Community people	7	7	Focus group discussion	January 2016
Community people	66	35	Structured questionnaire	
LPG vendors	2			
Public hearing for the ESIA of the governorate level. Included potential beneficiaries, government officials, NGO representatives, (10 people have attended from El Hadtha)	64	19	Public consultation	10 th of February 2016
Total	146	62	·	

6.1 Main results of Consultation during the Data Collection Phase

The majority of sample surveyed expressed their willingness to be connected to the NG regardless of the amount of money they can afford to pay. This trend is attributed to the fluctuation of the LPG cylinders prices.

Following are the main issues raised during data collection and scoping phase

Table 6: Sample of the main issues raised during data collection and scoping phase in El Hadtha

Subject	Questions and comments	Responses
Role of the NGOs	All community people will support the project,	
	especially, the NGOs. They can be your main	civil society will be
	channel of information sharing. No need for	discussed and it is
	big budget. Any engineer from the gas	always fruitful sharing
	company can visit the NGO and make a	information with the
	presentation about the benefits of NG. This	community.
	will cost EGAS nothing	





Subject	Questions and comments	Responses
Community	In El Hadtha, the majority of people are	This will be considered
coherent	affiliated to esteemed families who care for	
	their reputation. All of them will work for the	
	benefit of the project as they suffer from LPG	
	problems. Two years ago, families were	
	fighting to obtain an LPG. Yes, the problem	
	declined now but it is always a concern not to	
	find the LPG one day.	
	The families can gather in meetings to receive	
	any information about the NG. In case if the project faces any problem, head of families can	
	solve the problems.	
	Females can't attend public meetings but the	
	NGOs can reach them with the help of the	
	NGO promoters	
Brochures and	Gas companies can provide information about	To be considered by
leaflet	the project through posters leaflets and	EGAS care for all
	brochures. Such advertisements should be put	engagement activities
	in public areas. They can be distributed in	
	active NGOs	
Benefits of the NG	In El Hadtha the LPG cost 10 EGP. In the	
	past the LPG price was 4 EGP. It increased	
	due to the greedy vendors attitudes. During	
	Ramadan and the feasts the price might be doubled.	
	NG is much cheaper than the LPG and the	
	electricity on scale from 1 to 10 the NG is 10.	
	It is extremely good. It is safe and of low cost	
Complaints related	Sometimes the community complain about the	
to the LPG	LPG to the Supply Office goes in vain	
Charity NGO role	Mansour Amer charity NGO can provide	
,	additional support to poor people to install the	
	NG.	
	They provide 50 EGP to poor people in the	
	area. They can provide similar amount to	
D	install the NG	
Role of community	Community people can mobilize each other to	
people	install the NG. Additionally, they can provide	
Cost of NG	guidance to the illiterate groups We know that the NG installation cost is high	
installation	but the monthly consumption cost is low.	
motanation	However, the LPG cost us at least 30 EGP per	
	month. The installation cost is about 1700	
	EGP. This is expensive but people can pay it	
	in installment. The proposed monthly	
	installment varies between 70-100 EGP (this is	
	in consistent with the installment mechanism)	
Safety of the NG	When we talk about safety you might	
	understand that there is low probability of	
	explosions. This is not meant by safety in El	
	Hadtha. They mean that the LPG vendors will	
	not enter the houses. The LPG sellers are	
	bullies and thieves. It is unsafe having them in the house	
	the nouse	



Subject	Questions and comments	Responses
NG health benefits	In El Hadtha, the illiteracy rate is high and	
	people use a small stove that can explode	
	easily. The installation of the NG will save	
	their lives and secure them from accidents and	
	burns.	
	The women and young children carry the LPG	
	cylinder up to their apartment, this might cause	
	problems in the backbone. Having the NG	
	installed will reduce such problem	
Impact on vendors	The project will have unfavorable impacts on	
_	LPG vendors.	

On the 10th of February 2016 a public consultation was conducted in Banha City to which all areas of relevance to the project in Qalyubeya Governorate were invited. Governmental entities, environmental sector related units, NGOs and some members of the community attended the consultation event from El Hadtha and Qaluob. The results and documentation of the public consultation event can be found in the El Khosous City SSESIA.

6.2 Summary of Consultation Outcomes

The consulted stakeholders expressed their welcoming attitude of the project. They were keen to obtain information about the contracting procedures and technical requirements to have the NG installed. The majority of households pass across severely unfavorable aspects attributed to the LPG e.g. fluctuation of the LPG cylinder prices, inhuman treatment of the LPG distributors. Old people, poor people and women suffer most as they have to assemble in queues to get one LPG. The cost of NG installation was a concern raised by the stakeholders. They were happy with the installment mechanism adopted by EGAS.

Site specific consultation activities, as mentioned in details above, included wide range of concerned stakeholders. This included but was not limited to, persons/households affected by the project activities, civil society organizations representing the interest of the community, or regulatory and governmental bodies who will play a role in facilitating or regulating the implementation of site-specific project activities.

While WB safeguards and regulations state that a minimum of two large-scale, well-publicized public consultation sessions are a must for projects classified as category 'A' projects like the one at hand³, additional consultation activities (for example through focus group discussions, in-depth meetings, and interviews) were implemented to reach the most vulnerable and difficult to reach community members. Additionally, in order to obtain larger scale and more quantifiable information, the consultant has conducted surveys in the different sites.

³ Clause 14 of OP 4.01 states that: "For Category A projects, the borrower consults these groups at least twice: (a) shortly after environmental screening and before the terms of reference for the EA are finalized; and (b) once a draft EA report is prepared. In addition, the borrower consults with such groups throughout project implementation as necessary to address EA-related issues that affect them."

