

Health Impact Assessment in the Energy Sector



Delya Sommerville/Yina Xiao

JHU/Eni

USA/Mexico

dsommer5@jhu.edu/yina.xiao@eni.com

[linkedin.com/in/delya-sommerville](https://www.linkedin.com/in/delya-sommerville)

www.linkedin.com/in/yina-xiao



Global Health Manager
Eni Mexico

HIA Process: What, Why and How

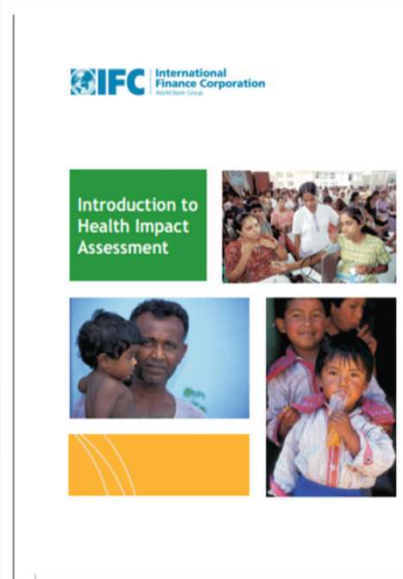
HIA process for public and private is similar


Concept - "outside the fence line"

HIA drivers

- Legal, international finance institutions, industry best practice, company requirements and commitments

Stand-alone vs integrated, publicly available vs internal, over full project cycle vs specific activities, developed vs developing countries, performed by internal resources vs consultants





	2014	2015	2016	2017	2018	2019
Health Impact Assessments carried out (number)	20	14	4	10	11	3.9 8.8
Number of health services provided	28,807	28,579	28,350	28,453	28,192	3.8
of which: to employees	473,437	487,360	354,192	379,481	384,291	3.8
of which: to contractors	320,933	312,490	242,160	261,618	243,118	
of which: to relatives	68,796	94,130	65,662	70,970	61,230	
of which: to others	66,327	72,268	39,840	43,835	72,261	
Number of registration to health promotion initiative ⁽ⁱⁱ⁾	17,381	8,472	6,530	3,058	7,482	
of which: to employees	170,431	205,373 ⁽ⁱⁱ⁾	222,708	158,784	82,700	
of which: to contractors	75,938	97,493	99,758	85,776	63,760	
of which: to relatives	46,930	78,330	86,357	58,031	16,019	
of which: to others	47,563	29,550	36,593	14,977	2,921	
OIR Occupational Illness Frequency Rate (Occupational illnesses allegations received/worked hours) x 1,000,000	0.16	0.16	0.13	0.13	0.06	3.3 8.8
Occupational illnesses claims received (number)	81	73	28	30	29	3.3 8.8
Employees	10	9	7	7	3	
Former employees	71	64	21	23	26	
of which, out of the total number of reports: women					0	
of which, out of the total number of reports: men					29	

HIA in Industry: What is Effective

At predicting positive and negative impacts

At preventing project or operational delays

As a risk management tool

In stakeholder engagement

In influencing decision making

At raising awareness of health as a relevant and significant cross cutting issue

At providing basis for community health management plan (HMP)


At providing basis for community investment

HIA in Industry: What Good Process Looks Like

Success factors

- Timing and timeliness
- HIA team
- Leadership support

What doesn't help

- Not engaging stakeholders appropriately
 - Performing after project started, not producing in timely manner, not following through recommendations
 - No proper handover to the local team
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HIA in Industry: Performance

Not all companies do it

Some moved to integrated impact assessment

How it works for energy transition projects

Health equity, environmental justice emerging topics

Table 3: Process maturity overall average 2013-2022

Elements	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
1. Health risk assessment and planning	3.0	3.2	3.2	3.3	3.2	3.2	3.4	3.5	3.5	3.2
2. Industrial hygiene and control of workplace exposures	3.2	3.5	3.4	3.6	3.5	3.4	3.6	3.6	3.6	3.5
3. Management of ill health at work	3.6	3.8	3.8	3.8	3.8	3.8	3.9	3.9	3.9	3.8
4. Fitness for task	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	3.5
5. Health surveillance	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	3.4
6. Wellbeing in the workplace	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	3.2
7. Medical emergency management	3.5	3.7	3.7	3.7	3.6	3.6	3.8	3.8	3.8	3.7
8. Emerging and existing vector-borne and infectious diseases	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	3.4
9. Fatigue	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	2.5
10. Health impact assessment	2.5	2.8	2.8	3.0	2.8	2.9	3.0	3.1	3.4	2.7
11. Health reporting and record management	3.4	3.6	3.6	3.6	3.6	3.6	3.7	3.8	3.8	3.8
12. Public health interface	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	3.2
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Fitness for task assessment and health surveillance	3.3	3.3	3.4	3.5	3.4	3.3	3.6	3.6	3.6	n/a
• 4. Fitness for task										3.5
• 5. Health surveillance										3.4
Public health interface and promotion of good health	2.9	3.1	3.3	3.3	3.2	3.4	3.5	3.5	3.6	n/a
• 6. Wellbeing in the workplace										3.2
• 12. Public health interface										3.2

Case Studies: Two Scenarios

Company	A	B
Type	Integrated ESHIA, publicly available	Stand-alone HIA, in country, internal document
Country	Myanmar	Brazil
Main driver	Compliance with Ministry of Environmental Conservation and Forestry requirements	Company requirements
Project description	Hydrocarbon exploration licensing	Expansion of biofuels facility
Conducted by	Large environmental firm	HIA consultants jointly with company rep
Health impacts identified	Potential increased noise, decreased air quality due to aircraft use, pressure on health services, waste, increase in diseases, road accidents	Increase in diseases, pressure on health services, increase in diseases, road accidents
What worked well	Health info was integrated into ESHIA incl combined mgt plan	Need to do HIA recognised and fulfilled
What could be improved	Human rights impact assessment was separate	Full life cycle of the project not considered, the report was issued after the project ended

HIA in Energy: Benefits, Challenges and Opportunities


Benefits

- Baseline record in support for monitoring and mitigation
- Foster internal & external communication

Challenges

- Lack of requirements
- Financial and human resources
- Organisational management structure
- Public private cooperation

Opportunities related to energy transformation

- Geographies, projects, legal requirements, impacts different
 - Innovation in technology and application
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Let's continue the conversation!

Post questions and comments in the IAIA24 app.



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Delya Sommerville/Yina Xiao

JHU/Eni

USA/Mexico

dsommer5@jhu.edu/yina.xiao@eni.com

[linkedin.com/in/delya-sommerville](https://www.linkedin.com/in/delya-sommerville)

[linkedin.com/in/yina-xiao-35a60224](https://www.linkedin.com/in/yina-xiao-35a60224)