



**PNG LNG Kwatali
Envairomen na Sospel Ripot**

Namba Tu Kwata

2011



PNG LNG

*Energy for the World. Opportunity for Papua New Guinea.
Eneji Bilong Wol. Luksave Bilong Papua Niugini.*



Kamapim ol Papua Niugini wokmanmeri – i winim tru mak

“Dispela kampani i luksave olsem wok bilong eneji risos i karamapim ol narapela samting tu na i no wel na ges tasol – em i karamapim divelopmen na trening bilong ol pipel na i helpim sindaun bilong lokal komyuniti nau na long bihaintaim.”

Peter Graham, Manesing Dairekta, Esso Highlands Limited

Olgeta wok bilong kamapim dispela Papua Niugini Likwifait Neturel Ges (PNG LNG) Projek (Projek) bai ran gut sapos i gat ol gutpela saveman na meri husat inap mekim gut ol wok. Dispela Projek i luksave long taim em i givim wok long ol lokal pipel, skulim na givim trening long ol woka bilong Papua Niugini, ol kontrakta na saplaia, givim save na pasin bilong mekim wok i go bek long ol pipel, baim ol lokal guds na sevis; na helpim ol komyuniti long ol bikpela invesmen. Long dispela kwata, Projek i skruim yet wok long ol dispela eria.

Dispela i namba sikis PNG LNG Kwatali Envairomen na Sospel Ripot. Em i toksave olsem wanem Esso Highlands Limited, opereta bilong dispela Projek, i mekim ol wok bilong sefti, helt, envairomen na sosel manesmen.

Esso Highlands Limited, wanpela han bilong Exxon Mobil Corporation, i mekim wok bilong konstraksen na operesen long nem bilong ol narapela ko-vensera olsem: Oil Search Limited, National Petroleum Company PNG Limited, Santos Limited, JX Nippon Oil and Gas Exploration Corporation, Mineral Resources Development Company Limited na Petromin PNG Holdings Limited wantaim ol wanwok bilong ol.

Wokfos divelopmen

Givim trening long strongim save bilong ol Papua Niugini wokmanmeri, em wanpela hap bilong *National Content Plan* bilong Kampani. Dispela pasin bai givim gutpela luksave na helpim long Papua Niugini long bihaintaim.

Insait long Projek i gat planti kain trening i kamap, i gat klasrum trening na wokples trening tu long givim moa save long ol Papua Niugini woka long wok bilong ol na ol arapela wok long bihaintaim wantaim Projek o long narapela hap. Projek i save kisim stret ol woka o i givim kontrak long ol, tasol nau i gat tu greduet program, Operesens na Mentenens Trening Program na intensip.

Ol Projek kontrakta tu i gat ol trening program. Eksampel, long dispela kwata, kontrakta bilong LNG Plent na Marin Fasilitis i makim nainpela Papua Niugini traini ensinia long go skul wan yia long ensinia senta bilong ol long Yokohama,

Japan. Bai ol i kisim wokples trening long mekanikel, ilektrikel, instramentesen na projek kontrol long redi long mekim ol wok ensinia long bikpela ples wok bilong LNG Plent.

Long wankain taim tu, kontrakta bilong Opso Paipain, i baim skul bilong 40 yangpela pipel bilong ples Kido na Omati Riva we ol bai kisim trening inap 16-mun. Ol dispela yangpela pipel i skul long stretim ea-kondisen, refrijeresen, metal fabrikesen, kapentri na joineri, na plaming. Dispela save ol i kisim bai helpim komyuniti bilong ol long bihaintaim, na bai helpim ol tu long painim wok autsait long Projek.

Long wok bilong draiva na opereta, sefti em i stap yet olsem wanpeal bilong ol bikpela astingting bilong olgeta wok bilong Onso Paipain. Dispela kontrakta i givim spesel trening program i gat tripela hap bilong en, long ol draiva bilong ol bikpela masin, ol bikpela trak na ol liklik ka.

Projek i givim trening long redim ol Papua Niugini woka long planti ol konstraksen wok i kamap long LNG Plent na long Hides Ges Kondisenen Plent. Long taim moa wok i kamap, namba bilong ol woka bilong Projek i winim 9,300 long pinis bilong mun Jun. Em i surik i go antap long 30 pesen moa long las kwata. Moa long 6,600 woka em ol Papua Niugini, i makim 71 pesen bilong olgeta woka bilong Projek. Dispela bikpela namba bilong ol Papua Niugini woka i winim mak bilong namba ol i ting bai kamap long taim fainensel yia bilong Projek i pas. Ol Lendona Kampani (ol i kolim ol Lancos) i go pas long saplain ol woka, we mak bilong ol inap long 73 pesen.

Moa long 6,600 Papua Niugini woka em ol sitisen, o 71 pesen woka bilong Projek

Ol meri tu i kisim kain kain trening na sans bilong wok. Long pinis bilong mun Jun, Projek i gat 840 wokmeri na 700 bilong ol em ol Papua Niugini.

“Mi gat bikpela laik long Projek bikos ol nupela samting i kamap. Eksampel, ol yangpela i gat wok. Na sindaun bilong ol pipel i senis.”



Rausi Doko, Viles Rikrutmen Opisa, Lea Lea

I kam long: *Landowners on LNG project impact* (2011). Radio Australia. Julai 1, 2011.



Namba wan wok bilong weldim onso paipplain

Ol wok pastaim long konstraksen

Bihainim ol wok i kamap pastaim, bikpela pri-konstraksen sevei long dispela taim i lukluk long Onso Paipplain o wok bilong putim paipplain antap long graun. Paipplain i karamapim 292-kilomita na ol i seveim 80 pesen bilong dispela rot paipplain bai bihainim. Ol i luksave long ol ples we i gat stori na pasin tumbuna long dispela pri-konstraksen sevei olsem paipplain bai abrusim ol o bai i no inap kamapim bikpela bagarap long ol dispela ples, bihainim *Cultural Heritage Management Plan*. Eksampel, ol i luksave long faipela kain ples olsem pinis na long namba tu kwata, ol i was gut long lukim olsem i no gat bagarap i kamap long taim wok i gohet.

80 pesen bilong 292-kilomita bikpela paipplain rot ol i seveim pinis

Aninit long *Chance Finds Protocol* bilong Projek, ol asples husat i gat trening long luksave long ol samting bilong tumbuna, i save was long taim masin i brukim graun na ol i bungim ol kain samting olsem ol bun, o sospen graun na ol arapela samting bilong tumbuna. Ol arapela ples we i gat stori, matmat, graun bilong pait na hausman o hausmeri i bin sanap long en, em ol i stap aninit long *Cultural Heritage Management Plan* bilong Projek.

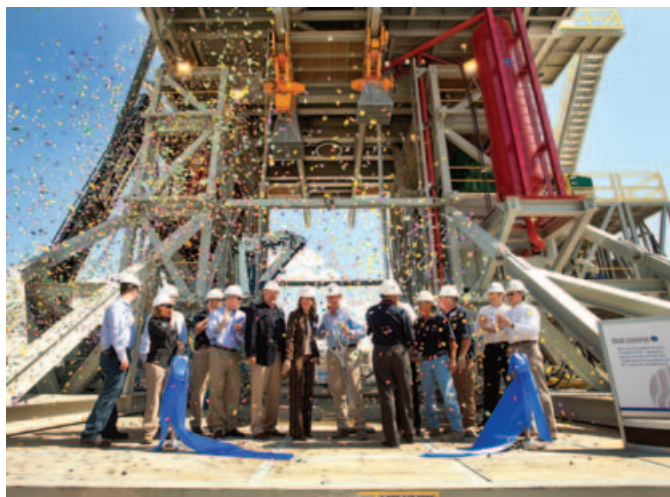
Konstraksen

Ol wok aninit long Projek i ran gut na inap bungim mak bilong kirapim ol wok long yia 2014. Sampela bikpela wok i kamap long dispela kwata em, namba wan wok bilong weldim paipplain long dispela 292-kilomita onso paipplain. Long taim ol i bungim wantaim paip i ran aninit long solwara, bai i winim mak bilong 700 kilomita. Ol wok i pinis long namba wan drilling rig, wok i kirap long bris bilong LNG Plent, na wok i pinis long Juni Konstraksen Trening Fesiliti.

Na tu, wok i stat long Caution Bay we ol opso paipplain bai kam antap long graun na ol i sanapim tu wanpela liklik banis bilong konstraksen.

Ol wok bilong opso paipplain bai stat long dispela kwata, na kontrakta i redi long muv i kam long Papua Niugini we ol wok bai stat long pinis bilong dispela yia. Long wankain taim tu, ol konstraksen wok long Kikori na Gobe klostu i pinis nau, olsem na ol i salim ol masin na ol woka i go long Hides long ples bilong sanapim Hides Ges Kondisening Plent sait.

Kontrakta bilong Apstrim Infrastraksa i gohet yet long gutpela sefti rekot we ol i wok seven milien aua na i no bungim wanpela hevi o Lost Taim Insiden. Kontrakta long Komo Ples Balus tu i amamasim foa milien aua bilong wok na i no gat wanpela hevi o Lost Taim Insiden.



Decie Autin, Projek Eksekutiv, Esso Highlands Limited long taim bilong katim ribon na amamasim namba wan drilling rig

Tebol 1 – Ol kontrak na bikpela wok konstraksen

Kontrak	Kontrakta	Ol bikpela wok long namba tu kwata 2011
Apstrim Infrastraksa (C1)	Clough Curtain Brothers Joint Venture	Mubi Riva Bris i pinis na i op. Pinisim Sauten Lojistiks Rut skop.
LNG Plent Eli Woks (C2)	Curtain Brothers Papua New Guinea Limited	Pinisim ol wok bilong stretim ples we paia i kamap.
Opso Paipplain (EPC2)	Saipem	Wok i stat long Caution Bay we paipplain long solwara bai kam antap long graun. Givim wok long sab-kontrakta long redim wok long Omati Riva.
LNG Plent na Marin Fasilitis (EPC3)	Chiyoda and JGC Corporation	Wok i stat long putim paip aninit long graun long ol LNG proses eria. Kirapim wok bilong sanapim bris.
Hides Ges Kondisening Plent na Hides Welpeds (EPC4)	CBI Clough Joint Venture	Pinisim wok long Painia Kem. Faundesen bilong ples bilong kukim ol pipia i pinis. Pinisim na opim wanpela temporeri pawa saplai sistem.
Onso Paipplain (EPC5A)	SpieCapag	Ol wok bilong digim graun, weldim na putim paip long graun i stat. Namba wan lain i kamap long Kaiaam Kem 2. Stat bilong ol wok long Rait ov We long not hap bilong Kikori Riva.
Komo Ples Balus (EPC5B)	McConnell Dowell and Consolidated Contractor Group Offshore	Pinisim wok long ples bilong putim fuel. Bikpela wok bilong brukim graun i stat. Klostu banis long Komo Ples Balus i pinis.
Asosieted Ges Developmen	Kain kain	Wok bilong senisim of-loding boi klostu i pinis. Putim namba wan aisolesen valv long Kutubu Sentral Prosesing Fasiliti.
Driling (nupela wels na wokovas)	Nabors Drilling International Limited	Tupela namba wan dril rig i pinis. Namba wan dril saplai i kamap long Papua Niugini.

Sefti, helt na sekiuriti

Long taim moa wok i kamap na i gat planti moa woka, Projek i kirapim ol program bilong lukautim helt na sefti bilong ol woka long ol ples wok bilong Projek.

Eksampel, bai wanpela woksop bilong ol eksekutiv bilong Projek na ol kontrakta i kamap long namba tri kwata bilong 2011 long skelim ol samting i kamap long sefti na kamapim ol plen bilong strongim gut sefti long ples bilong wok. Dispela i bihainim wanpela birua i kamap long namba tu kwata we wanpela Onso Paipplain sab-kontrakta i dai long taim em i seveim paipplain Rait ov We klostu long Gobe. Mipela i sori tru na salim bikpela toksori long ol famili, pren na wanwok bilong em. Projek i toksave long ol atoriti na i mekim wok painimaut long as bilong dispela birua na em i luksave long ol rot bilong abrusim kain birua olsem long bihaintaim.

Long helt bilong ol woka, i no gat ripot bilong sik i kamap long kaikai o wara, o ol pinga bilong lek long dispela kwata. Dispela i soim olsem helt program seveilens, pasin bilong sekap oltaim long ol samting inap kamapim sik, na ol wok bilong helt inspeksen long ol nupela kem, i karim kaikai. Projek i skelim gen malaria na tuberculosis (TB) program bilong en na statim program we long wan wan mun, ol kontrakta yet i ken yusim long sekap long sik TB, dispela bai karamapim olgeta hap bilong Projek. Projek i mekim ol awenes program na givim ol samting bilong pait egensim malaria long namba foa Wol Malaria De long 25 Epril.

Long ples Boera, wanpela ples we bikpela wok bilong LNG plent sait bai kamap, Projek i tokaut long stretim gut helt klinik na wokim nupela haus bilong helt woka bilong klinik. Projek bai wokim tripela nupela yunit bilong ol helt woka long Salvation Army helt klinik long ples Papa.

Dispela bai bringim namba bilong ol tripela helt woka i go antap long seven.

Sekiuriti tim i wok bung wantaim ol arapela Projek tim long kamapim seif na gutpela ples wok bilong ol woka. I gat kain kain samting i kamapim ol hevi bilong sekiuriti, olsem na wokbung wantaim Sosioekonomik tim i ken soim wanem samting ol lokal komyuniti i laik lukim long ol Projek eria. Dispela bai helpim tu ol sekiuriti progrem long stretim hariap wanem kain hevi i kamap.

Sosel developmen

Wanpela bikpela samting long komyuniti na Projek em long skulim ol pikinini long abrusim birua long ples we konstraksen i kamap na long rot. Ol i laikim tru ol dispela buk bilong ol pikinini we i gat ol stori bilong Toea. Olsem na long dispela kwata, ol i putimaut buk ol i kolim *Toea Project Interface Road and Site Safety* we i gat ol kain kain rot bilong skulim ol pikinini long sefti. Ol lokal ekta tu i kamapim drama we i stori long Toea (wanpela taun pikinini husat i laik save long ol kalsa long kantri bilong em). Em i raun long ol skul long ples we LNG plent sait i stap na i toktok long ol pikinini long abrusim birua long rot na ol ples we wok i kamap.

Wok bilong helpim ol meri i wok long kisim sapot bilong Projek. Long dispela kwata, Projek i sponsa long tupela meri i go long wanpela trening program ol i kolim Washington DC Global Wimen in Manesmen. Na tu, Projek i sapotim tu bung bilong 50 lida meri long Gavman, sivil sosaiti, praiwet sekta na ol dona ogenaissen long Pasifik Wimen Empawamen Polisi Dialog.

Long namba tu kwata tupela baiomedikal teknisen long Mendi haus sik long Papua Niugini i kam bek bihain long sikispela mun trening long Medisend International Baiomedikal Ikkipmen Ripe Program long Dallas, Texas. Projek i sponso long ol i go kisim dispela trening. Medisend International i save givim skul, trening na save long ol studen long ol developing kantri long kamapim helti sindaun long komyuniti. Ol i skul long yusim ol masin bilong helpim laip, na kisim save long fiksik na lukautim ol baiomedikal masin.



Turiza Tandago i toktok wantaim Embasada Melanne Verveer, U.S. Embasada-at-Laj fo Global Wimens Isus, long bung bilong Global Wimen in Menesmen

ExxonMobil i sapotim stretpela pasin bilong mekim wok na Projek i sapotim na stap insait long ol program we i sapotim transperensi na egensim korapsen. Projek i luksave tu olsem ol program bilong stapim korapsen bai karim kaikai sapos gavman i luksave na go pas long en. Gavman bilong Papua Niugini i tokaut long Sovren Welt Fan we em bai putim olgeta mani i kamap long Projek. Projek i amamas long dispela bikos em i wanpela rot we mani Gavman i kisim long ges long Sauten Hailans na Westen Provins bai kamapim ekonomi, givim moa sans long ol pipel na kamapim gutpela sindaun bilong ol pipel bilong Papua Niugini.

Wanpela bikpela hevi i wok long kamap nau em moa pipel i wok long go painim bisnis na wokmani long ol ples klostu long Projek eria. Projek i sapotim ol komyuniti long kamapim plen bilong lukautim ol yet na putim was long ol autsait lain husat i kam insait long ples. Long dispela kwata, wok i gohet long tripela ples insait long LNG plent sait long plen bilong ol. Eksen plen bilong ol dispela ples (Lea Lea, Papa na Porebada) i karamapim pasin bilong yusim graun bilong ol, na luksave long ol pipel husat i ken helpim long stretim ol hevi i kamap long eria bilong ol taim ol autsait lain i kam insait.

Sosioekonomik tim i wok long bung wantaim ol lokal komuniti na toksave long stretpela pasin bilong bihainim long ol wok i kamap long graun bilong ol, muvim ol pipel i go sindaun long narapela hap na kompensesen. Ol i toksave tu long wanem taim wok bilong kaunim ol pipel, sevei long ol haus na gaden bai pinis.



Toea wantaim ol pikinini long Papa Prameri Skul

Developim ol Papua Niugini bisnis

Enterprise Centre em i aidia bilong Esso Highlands Limited, na Institute of Banking and Business Management i sapotim, em i wanpela bikpela samting long *National Content Plan* bilong Projek. Em i bilip long developim ol Papua Niugini bisnis na ol tu i ken helpim Projek long ol wok bisnis.

Dispela Enterprise Centre i winim wan yia nau na long makim dispela bikpela de, ol i opim nupela haus bilong en na tokaut long nupela websait bilong ol, www.enterprisecentre.com.pg we i isi long painim ol sevis bilong Centre.

Enterprise Centre i spendim moa long 2,000 de long trening long wan yia

Long yia i go pinis, Enterprise Centre i spendim moa long 2,000 de long trening na helpim moa long 8,500 bisnis. Centre i gat moa long 1,250 kampani i rejista long PNG Saplaia Databases bilong en. Moa askim i wok long kam long trening na long dispela kwata i bin gat 665 trening de, we i winim mak bilong 600 de long namba wan kwata bilong 2011.

Enterprise Centre i skruim bisnis edvaiseri sevis bilong en i go long foapela ples, Boera, Papa, Lea Lea na Porebada. Eksampel, long dispela kwata, ol i givim Bisnis Besik Trening na Dairektas Trening i go long kampani bilong ol meri long ples Papa, ol i kolim Papa Magia Limited.

Taim Projek i kamap bikpela, ol i yusim moa saplaia bilong Papua Niugini. I kam inap nau, Projek i spendim moa long tri bilien Kina (US\$1.3 billion) long Papua Niugini. As bilong dispela em bikos i gat moa wok i kamap yet long bikpela ples wok bilong LNG plent sait, ol wok i kamap yet long putim paip plain na wok i muv i go nau long Hides Ges Kondisening Plent.



Enterprise Centre tim i sanap autsait long nupela opis bilong ol

Wok bilong envairomen

Ol kontrakta i painim kain kain rot bilong daunim mak bilong pipia em wok bilong ol i kamapim na yusim gen ol konstraksen material. Eksampel, kontrakta bilong Onso Paipain i yusim ol plastik paip long putim gut ol floresen tub na ol plang bokis long putim ol pipia em ol i no inap kukim. Ol welding kru i yusim dram long putim ol pipia metal long Rait ov We. Long bikpela ples wok bilong LNG plent sait, i gat plen bilong givim ol plang bilong ol konstraksen material pekejing i go long ol pipel long ples. Ol i sanapim wanpela insinereta long bikpela ples wok bilong LNG plent sait long kukim ol pipia bilong medikel klinik.

Projek i givim trening long traim daunim hamas taim na hamas pipia i kapsait. Dispela trening bai luksave long stretpela pasin bilong mekim wok. Insait long Projek, ripot bilong dispela kwata i soim olsem i gat 109 envairomen insiden ol i ripotim, dispela mak em i 26 daunbilo long namba wan kwata. Ripot i soim olsem ol haidrokabon, pipia wara na ol kemikel i bin kapsait. Long stapim kain hevi olsem long kamap gen, planti kontrakta i kamapim moa trening long rot bilong daunim na stapim ol pipia na marasin long kapsait.



Poto © C.B. Frith

Dispela pisin ol i kolim Black-mantled Goshawk *Accipiter melanochlamys* i save stap long ples ol wok bilong Projek i kamap

Projek i wokbung wantaim ol saveman long *Biodiversity Strategy* o luksave long ol enimal na diwai samting bilong bus na wara. Conservation International bai stap yet olsem edvaisa long taim bilong kamapim *Biodiversity Offset Delivery Plan*. Ol wok Conservation International bai mekim em: skelim gen *Biodiversity Strategy* bilong Projek na ol arapela ripot; skelim na toksave long ol eria we ol enimal na samting bilong bus i sot na painim rot bilong traim stretim gen. Bai Projek i yusim ripot bilong Conservation International long kamapim *Biodiversity Offset Delivery Plan* bilong en.

Wokbung wantaim ol stekholda na komyuniti

Long taim Projek i wok long kamap bikpela, ol stekholda i laik lukim ol komyuniti i toktok wantaim ol. Em i wanpela rot bilong stretim wanem kain hevi o tingting ol pipel i gat long Projek na helpim ol pipel long save gut long ol wok i kamap na ol kain helpim olsem wokmani na bisnis developmen.

Sosioekonomik tim i mekim wok bilong stretim ol hevi na wari bilong komuniti hariap. Tim i wok klostu wantaim ol Projek kontrakta long stretim hariap ol hevi i kamap.

Long dispela kwata, i gat ol komyuniti drama i kamap long soim dispela wokbung. Drama i wanpela gutpela rot bilong ol pipel i yusim save na kalsa bilong ol long amamas na wankain taim tu, ol i ken autim tingting bilong ol. Long luksave na bringim ol komyuniti kam insait, ol i kisim ol lokal komyuniti memba long kamapim ol drama long pablik ples.

Wankain taim tu, Projek i toktok wantaim Gavman bilong Papua Niugini long kamapim ol sosel na ekonomik benefit dispela Projek bai kamapim. Long dispela kwata, Projek manesmen, ol Gavman Minista na ol senia Ejensi woka i bung long wanpela Projek/Gavman Plening Woksop long bikpela ples wok bilong LNG plent sait. Dispela i gutpela sans long bung na paitim toktok long ol samting.

Moa long 500 opisa bilong Gavman i kamap long sikispela Provinsel na nainpela Nesenel advokasi woksop na ol miting long dispela kwata. Ol woksop i karamapim wok bilong Projek, we i lukluk long nesenel level, graun na komyuniti afeas na bisnis developmen.

Taim em i wok klostu wantaim ol pipel bilong Papua Niugini na strongim wok bilong eneji insait long kantri, Projek i helpim sindaun bilong ol pipel long bihaintaim long kamap gut. Ol kain samting olsem helt, edukesen, na givim save long pipel i helpim komyuniti bilong ol. Projek na ol kontrakta bilong en bai gohet yet long ol developmen plen long taim konstraksen i wok long kamap hariap long pinis bilong dispela yia.





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ExxonMobil

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Santos
We have the energy.



