

Note: Before the enactment of electricity law in 1997 a Project Development Agreement (PDA) was equivalent to a Concession Agreement or BOT Agreement. There were only two stages in the development process that started from MOU and then PDA whereby concession rights were granted.

After 1997 Project Development Agreement equivalent to Heads of Agreement (HOA) was inserted as an interim stage between MOU and CA. In the PDA or HOA, the mandate given in the MOU is upgraded to exclusive rights to develop the project but such rights are still contingent upon concession rights that shall be finally granted in Concession Agreement

1. Power Projects in Lao PDR - Development before 2000

No	Name of Project	Location	Installed Capacity	STATUS		Investors (Sponrs)	Planned Market	Remarks
		Province		Progress of	Commercial Operation Date			
				MOU/PDA/CA				
1	Houay Ho (IPP)	Champasak/Attapeu	152 MW	BOT agreement signed 23 Sept 1993	1999	<ul style="list-style-type: none"> EdL (Laos) 20% Glow Co, Ltd 67.25% Hamaraj Land& Development 12.75% 	Thailand	In Operation
2	Nam Dong Hydropower (State Utility)	Luangprabang	1 MW	PDA/CA not required	1970	Electricité du Laos (EdL)	Laos	In Operation
3	Nam Ko (State Utility)	Oudomxay	1.5 MW	PDA/CA not required	1996	Electricité du Laos (EdL)	Laos	In Operation
4	Nam Leuk Hydropower (State Utility)	Vientiane	60 MW	PDA/CA not required	2000	Electricité du Laos (EdL)	Laos/Thailand	In Operation
5	Nam Mang 3 Hydropower (State Utility)	Vientiane	40 MW	PDA/CA not required	2004	Electricité du Laos (EdL)	Laos/Thailand	In Operation
6	Nam Ngum 1 Hydropower (State Utility)	Vientiane	155 MW	PDA/CA not required	1971	Electricité du Laos (EdL)	Laos/Thailand	In Operation
7	Selabam Hydropower (State Utility)	Champasak	5 MW	PDA/CA not required	1970	Electricité du Laos (EdL)	Laos	In Operation
8	Se Xet 1 (State Utility)	Saravane	45 MW	PDA/CA not required	1990	Electricité du Laos (EdL)	Laos/Thailand	In Operation
9	Theun-Hinboun (IPP)	Bolikhamxay	210 MW	CA signed 17 Oct 1994	1998	<ul style="list-style-type: none"> EdL (Laos) 60% Nordic 20% GMS 20% 	Laos/Thailand	In Operation
10	Xekaman 1 (IPP)	Attapeu	468MW	CA signed 15 Nov 1997		<ul style="list-style-type: none"> Anscan Int'l (Malaysia/BVI) 		Terminated in 2005
11	Namtheun 3 (IPP)	Borikhamxay	263MW	PDA signed 1 Augt 1994		<ul style="list-style-type: none"> Heard Energy (USA/BVI) 		Terminated in 2004
12	Hongsa (IPP)	Xayabury	720MW	PDA signed 22 July 1994		<ul style="list-style-type: none"> TLL (Thailand) 		Terminated in 2006

CA: Concession Agreement

FS: Feasibility Study

HOA: Heads of Agreement equivalent to Project Development Agreement (PDA) after enactment of Electricity Law in 1997

IPP: Independent Power Producer

MOU: Memorandum of Understanding

PDA: Project Development Agreement

PPA: Power Purchase Agreement

TBD: To Be Determined

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Note: CA or BOT Agreement equivalent to Project Development Agreement (PDA) before enactment of Electricity Law in 1997. There were only two stages in the development process that started from MOU and then PDA whereby concession rights were granted. After 1997 PDA or HOA was inserted as interim stage between MOU and CA. In the PDA or HOA mandate given in the MOU is upgraded to exclusive rights to develop the project but such rights are still contingent upon concession rights that shall be further granted in Concession Agreement

2. Power Projects in Lao PDR - Operational

No	Name of Project	Location	Installed Capacity	STATUS		Investors (Sponrs)	Planned Market	Remarks
		Province		Progress of	Commercial Operation Date			
				MOU/PDA/CA				
1	Houay Ho (IPP)	Champasak/Attapeu	152 MW	BOT agreement signed 23 Sept 1993	1999	<ul style="list-style-type: none"> EdL (Laos) 20% Glow Co, Ltd 67.25% Hamaraj Land& Development 12.75% 	Thailand	In Operation
2	Nam Dong Hydropower	Luangprabang	1 MW	In Operation	1970	Electricité du Laos (EdL)	Laos	
3	Nam Ko	Oudomxay	1.5 MW	In Operation	1996	Electricité du Laos (EdL)	Laos	
4	Nam Leuk Hydropower	Vientiane	60 MW	In Operation	2000	Electricité du Laos (EdL)	Laos/Thailand	
5	Nam Lik 1-2 Hydropower (IPP)	Vientiane	100 MW	In Operation	2010	<ul style="list-style-type: none"> EDL 10% CWE (China) 90% 	Laos	
6	Nam Mang 3 Hydropower	Vientiane	40 MW	In Operation	2004	Electricité du Laos (EdL)	Laos/Thailand	
7	Nam Ngum 1 Hydropower	Vientiane	155 MW	In Operation	1971	Electricité du Laos (EdL)	Laos/Thailand	
8	Nam Ngum 2 Hydropower (IPP)	Vientiane	615 MW	In Operation	IOD 2011 COD 2012	<ul style="list-style-type: none"> EdL (Laos) 25% CH. Kanchang (Thailand) 28.5% PT Construction & Irrigation Co., (Laos) 4% Ratchaburi (Thailand) 25% Bangkok Expressway PCL (Thailand) 12.5% TEAM Consulting Engineering 1% Shalapak Group (USA) 4% 	Thailand	
9	Nam Ngum 5 Hydropower (IPP)	Luangprabang and Xiengkhouang	120 MW	CA Signed 10/4/2007	2012	<ul style="list-style-type: none"> EDL 15% Sinohydro (China) 85% 	Laos	
10	Nam Nhone	Bokeo and Luangnamtha	3 MW	In Operation	2011	<ul style="list-style-type: none"> Nam Nhone Co, Ltd 30% MK Dynamic Resources Development 70% 	Laos	
11	Nam Theun 2 Hydropower (IPP)	Khammouane and Bolikhamxay	1075 MW	In Operation	2010	<ul style="list-style-type: none"> LHSE (Laos) 25% EDF (France) 40% EGCO (Thailand) 35% 	Laos/Thailand	
12	Selabam Hydropower	Champasak	5 MW	In Operation	1970	Electricité du Laos (EdL)	Laos	
13	Se Xet 1	Saravane	45 MW	In Operation	1990	Electricité du Laos (EdL)	Laos/Thailand	

2. Power Projects in Lao PDR - Operational (cont.)

No	Name of Project	Location		Installed Capacity	STATUS		Investors (Sponsors)	Planned Market	Remarks
		Province	Progress of MOU/PDA/CA		Commercial Operation Date				
						14			
15	Theun-Hinboun (IPP)	Bolikhamxay	220 MW	In Operation	1998	<ul style="list-style-type: none"> • EdL (Laos) 60% • Nordic 20% • GMS 20% 	Laos/ Thailand		
16	Theun-Hinboun Hydropower Expansion (IPP)	Bolikhamxay and Khammouane	220+60 MW	In Operation	2012	<ul style="list-style-type: none"> • EDL 60% • Nordic Group (Norway) 20% • MDX (Thailand) 20% 	Laos/ Thailand		

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3. Power Projects in Lao PDR - Under Construction

No	Name of Project	Location		Installed Capacity	STATUS		Investors (Sponsors)	Planned Market	Remarks
		Province	Progress of		Commercial Operation Date				
			MOU/PDA/CA						
1	Hongsia Lignite (IPP)	Xayaboury		1878 MW	PDA (HOA) Signed 18/12/2006 and period 18 months, renewal 19/12/08 to 20/6/09 Tariff MOU 13/5/09 (PDA signed with Thai-Lao Lignite of Thailand on 22 July 1994 was procedurally terminated in October 2006) CA signed 30/11/2009	2015	<ul style="list-style-type: none"> LHSE 20% Ratchabury 40% BANPU 40% 	Laos/ Thailand	Progress Construction 45.5%
2	Nam Beng	Oudomxay		34 MW	CA Signed 07/01/2013	2016	China National Electrical Equipment Corp.	Laos	Under Construction
3	Nam Kong 2	Attapeu		66 MW	CA Signed 31/01/2013	2015	Hong Anh Gai Lai Mineral Joint Stock Company		Under Construction
4	Nam Long	Luangnamtha		5 MW	CA Signed 23/3/2011	2013	Luangpaseuth Construction Co., Ltd	Laos	Progress Construction 81%
5	Nam Mang 1 (IPP)	Bolikhamxay		57 MW	CA Signed	2016	Far-East Industrial Co., Ltd	Laos	Under Construction
6	Nam Ngiep 2	Xiengkhouang		180 MW	CA Signed 18/8/2011	2015	<ul style="list-style-type: none"> CWE (China) 		Progress Construction 32%
7	Nam Ou 2,5,6 (Cascade)	Phongsaly/ Luangprabang		120, 240, 180 MW	CA Signed 10/06/2012	2013-2017	<ul style="list-style-type: none"> GOL 10 - 25% Sinohydro (China) 90% - 75% 	Laos	Under Construction
8	Nam Sim (IPP)	Houaphan		8 MW	CA Signed 13/06/2011	2015	<ul style="list-style-type: none"> ECI (Laos) 25% Energy Development as (Norway) 75% 	Laos	Under Construction
9	Tad Salen Hydropower (IPP)	Savannakhet		3.2 MW	<ul style="list-style-type: none"> PDA not required CA Signed 03/02/2009 	2012	SIC Manufacturer (Thailand) 100%	Laos	Progress Construction 99%
10	Xayabouri (Mekong) (IPP)	Xayaboury/ Luangprabang		1285 MW	CA Signed 29/10/2010	2019	<ul style="list-style-type: none"> EDL 20% Ch.Kanchang 30% EGCO 12.5% Natec Synergy 25% Bang KIK Expressway 7.5% PT 5% 	Laos/ Thailand	Progress Construction 8.2%
11	Xekaman 1 Hydropower (IPP)	Attapeu		322 MW	CA Signed 10/2/2011	2015	<ul style="list-style-type: none"> GOL 15 - 30% VLP (Vietnam) 70-85% 	Vietnam/ Laos	Progress Construction 15.56%

3. Power Projects in Lao PDR - Under Construction (cont.)

No	Name of Project	Location	Installed Capacity	STATUS		Investors (Sponsors)	Planned Market	Remarks
		Province		Progress of	Commercial			
				MOU/PDA/CA	Operation Date			
12	Xekaman 3 Hydropower (IPP)	Sekong	250 MW	<ul style="list-style-type: none"> PDA not required CA Signed 4/01/2006 	2012	<ul style="list-style-type: none"> EDL 15% VLP (Vietnam) 85% 	Laos/ Vietnam	Progress Construction 99%
13	Xenamnoy 1	Attapeu	14,8 MW	CA Signed 11/05/2012	2013	<ul style="list-style-type: none"> Phongxubthavy Road and Bridge Construction Co., Ltd 100% 	Laos	Progress Construction 84%
14	Xepian-Xenamnoy (IPP)	Attapeu and Champasak	410 MW	CA Signed 19/10/2012	2018	<ul style="list-style-type: none"> LHSE 24% SK Engineering & Construction (Korea) 26% Korea Western Power Co., Ltd 25% Ratchaburi Electric Generating Holding Public Co., Ltd 25% 	Thailand/ Laos	Under Construction

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4. Power Projects in Lao PDR - Planning Stage (PDA Stage)

No	Name of Project	Location	Installed Capacityz	STATUS		Investors (Sponsors)	Planned Market	Remarks
		Province		Progress of MOU/PDA/CA	Commercial Operation Date			
1	Don Sahong (Mekong)	Champasak	240 MW	• PDA Signed 13/02/2008	TBD	• GOL 20% • Mega First (Malaysia) 80%	Laos/ Thailand	PDA Completed
2	Nam Kong 1 (IPP)	Attapeu	75 MW	PDA Signed 23/06/2008	TBD	• Region Oil (Russia) 80% • LHSE 20%	Thailand	CA/PPA Negotiation
3	Nam Lik 1 (IPP)	Vientiane	60 MW	PDA Signed 08/4/2008	2015	• GOL 20% • Hydro Engineering Co. (Thailand) 80%	Laos	CA Negotiation
4	Nam Kong 3	Attapeu	45 MW	PDA Signed 16/03/2011		Hong Anh Gai Lai Mineral Joint Stock Company	Laos	
5	Nam Mo (IPP)	Xiengkhouang	120 MW	PDA Signed 30/03/2008	TBD	• HN.CIT 65% • VLECG 35%	Vietnam	CA/PPA Negotiation
6	Nam Ngiep 1 Hydropower (IPP)	Bolikhamxay	269 +20 MW	• PDA Signed 27/4/2006 and period 18 months, renewal 27/5/08 to 26/2/09	2018	• LHSE 25% • Kansai Electric & Nippon Keoi (Japan) 45% • EGAT Inter 30%	Laos/ Thailand	CA Negotiation
7	Nam Ngum 3 Hydropower (IPP)	Vientiane and Xieng Khouang	460 MW	• PDA Signed 15/11/97	2018	• LHSE (Laos) 23% • Marubeni (Japan) 25% • Ratchaburi (Thailand) 25% • GMS (Thailand) 27%)	Thailand	CA/PPA Negotiation
8	Nam Phay	Vientiane	86 MW	PDA Signed 20.12.2011		Norinco International Cooperation (China)		
9	Nam Phoun	Xayaboury	50 MW	PDA Signed 08.02.2012		SOK Corporation Ltd.	Laos	PDA Negotiation
10	Nam Phak	Champasak	45 MW	PDA Signed 06.11.2009	TBD	• EDL 20% • Kobe Green Power Co., Ltd (Japan) 80%	Laos	PDA Completed
11	Nam Pha	Luangnamtha/ Bokeo	130 MW	PDA Signed 20.8.2010 and period 18 months	TBD	AP Bizlink Group (Malaysia)	Laos	PDA Completed
12	Nam Pod	Xieng Khouang	15 MW	PDA signed 05/6/2012		ACE Consultant (Laos)	Vietnam	FS on going
13	Nam Seuang 1	Luangprabang	94 MW	PDA Signed 11.8.2010 and period 18 month	2017	Bru Thai International	Laos/ Thailand	PDA Completed
14	Nam Seuang 2	Luangprabang	96 MW	PDA Signed 11.8.2010 and period 18 month	2017	Bru Thai International	Laos/ Thailand	PDA

4. Power Projects in Lao PDR - Planning Stage (PDA Stage) (cont.)

No	Name of Project	Location		Installed Capacityz	STATUS		Investors (Sponsors)	Planned Market	Remarks
		Province			Progress of	Commercial Operation Date			
					MOU/PDA/CA				
15	Nam Sum 1	Houaphan/ Luangprabang		194 MW	PDA Signed 19/9/2011		Saigon Investment Group	Laos/ Vietnam	
16	Nam Sum 3	Houaphan/ Luangprabang		196 MW	PDA Signed 19/9/2011		Saigon Investment Group	Laos/ Vietnam	
17	Nam Tha 1	Bokeo/ Luangnamtha		168 MW	PDA Signed 16/6/2010	TBD	<ul style="list-style-type: none"> Gol 25% China Souther Grid 75% 		CA/PPA
18	Pakbeng (Mekong)	Oudomxay/ Xayaboury		921 MW	PDA Signed 27/12/2010 and period 18 month	2018	GOL 19% Datang Oveeas Investment Co.,Ltd 81%		PDA
19	Phou Ngoy (Mekong)	Champasak		651MW	PDA Signed 7/12/2010 and period 18 months	2018	<ul style="list-style-type: none"> Charoen Energy and Water Asia Co.,Ltd 	Thailand/ Laos	PDA
20	Sanakham (Mekong)	Xayaboury/ Vientiane		660 MW	PDA Signed 27/12/2010 and period 18 month	2018	GOL 19% Datang Oveeas Investment Co.,Ltd 81%		PDA
21	Sekong 3 (3A&3B)	Sekong		3A: 105MW 3B: 100MW	PDA Signed 27/8/2012		Song Da Corporation Company	Laos/ Vietnam	
22	Sekong 4 Hydropower (IPP)	Sekong		300 - 600 MW	PDA signed 23/6/2008	TBD	<ul style="list-style-type: none"> Region Oil (Russia) 80% LHSE 20% 	Thailand	CA/PPA Negotiation
23	Se Kong 5 Hydropower (IPP)	Sekong		330 MW	<ul style="list-style-type: none"> PDA signed 19/6/2009 	TBD	Region Oil (Russia) Strategic partners to be invited	Thailand / Laos	CA/PPA Negotiation
24	Xekanman 4	Sekong		80 MW	PDA Signed 27/8/2012		Viet-Lao Power Company	Vietnam	

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5. Power Projects in Lao PDR - Feasibility Stage (MOU Stage)

No	Name of Project	Location		Installed Capacity	STATUS		Investors (Sponsors)	Planned Market	Remarks
		Province	Progress of		Commercial Operation Date				
			MOU/PDA/CA						
1	Ban Koum (Mekong)	Champasak		1872 MW	MOU Signed 25/3/2008 and period 30 months to 25/9/2010		- Italian Thai - Asia Corp Holdings Limited.	Laos/ Thailand	Proposed to extense period
2	Dak e meule Hydropower (IPP)	Sekong		130 MW	• MOU Signed 8/1/2008 and period 18 month to 08/07/2009		• GOL 25% • Viet-Lao Power 75%	Vietnam/ Laos	FS on going
3	Houay Champi	Champasak		5 MW	MOU Signed 26/5/2009 and period 18 month to 16/9/2010		SV Group Company Ltd.	Laos	FS No progressing
4	Luangprabang (Mekong)	Luangprabang		1200 MW	MOU Signed 13/10/2007 and period 30 month to 10/4/2010		Petrovietnam Power Corporation	Laos/ Vietnam	FS on going
5	Nam Bak 1	Vientiane		160 MW	• MOU Signed 11.4.2007 Renewal 12.10.2008 to 12/5/2009		Num Ngum 2 Power Company limited.	Thailand	
6	Nam Bak 2	Vientiane		40 MW	• MOU Signed 11.4.2007 Renewal 12.10.2008 to 12/5/2009		Num Ngum 2 Power Company limited.	Laos/ Thailand	
7	Nam Feuang	Vientiane		28 MW	MOU Signed 3.4.2007 Renewal 2/10/2008 to 3/6/2009		• Yunan Provincial Power Investment	Laos	FS on going
8	Nam Ham	Xayaboury		5 MW	• MOU Signed 6.4.2005 Renewal 14.12.2008		• GOL 20% • Cobri Co., Ltd (Laos) 80%	Laos	CA negotiation completed
9	Nam Leng	Pongsaly		50MW	MOU Signed 10/01/2012		• Venture Capital and Equity Invesment Ine		
10	Nam Ma 1, 2, 3	Houaphan		175 MW	MOU Signed 30/12/2008 and period 18 months to 29/6/2010		Linh Linh JFC Electrical Construction Investment Joint Stock Company	Laos/ Vietnam	FS on going
11	Nam Mo 1	Xiengkhouang		55 MW	MOU Signed 4.3.2010 and period 18 month		• GOL 15% • EVN International Joint Stock 85%	Vietnam	FS on going
12	Nam Mouan	Bolikhamxay		124 MW	MOU Signed 26.2.2010 and period 18 month		Chubu Electric Power (Japan)	Vietnam	FS on going
13	Nam Nga	Luangprabang		110MW	MOU Signed 11/4/2012		• Duangchalern Construction		
14	Nam Neun	Houaphan		65 MW	MOU Signed 8/10/2009 and period 18 months to 8/04/2011		GOL 25% Indochina Consulting Co., Ltd (Korea) 75%	Vietnam	FS on going

5. Power Projects in Lao PDR - Feasibility Stage (MOU Stage)(cont)

No	Name of Project	Location		Installed Capacityz	STATUS		Investors (Sponsors)	Planned Market	Remarks
		Province	Progress of		Com-mercial Operation Date				
			MOU/PDA/CA						
15	Nam Ngiep (Mouang Mai)	Bolikhamxay		38 MW	MOU Signed 25/2/2010 and period 18 month		• Phongxubthavy Bridge Road Construction		FS on going
16	Nam Ngum 4	Xiengkhouang		220 MW	MOU Signed 30/3/2008 and period 18 months		Saigon Investment Group	Laos/ Vietnam	FS on going
17	Nam Et 1, 2, 3	Houaphan		420 MW	MOU Signed 10/9/2011		Hoan gAnh Gai Lai Mineral Jiont Stock Co., Ltd (Vietnam)		FS on going
18	Nam Phouan	Vientiane		60MW	MOU Signed 24/9/2010		ECI (Laos) Velcan Energy (France)		
19	Nam Poui	Xayabury		60MW	MOU Signed 6/10/2010		Mudajaya Corporation Ber had		
20	Nam Theun 1	Borlikhamxay		523MW	MOU Signed 9/03/2012		Phongxubthavy Road and Bridge Construction Co., Ltd		
21	Pak Lay (Mekong)	Xayabury and Vientiane		1320 MW	MOU Signed 11/6/2007 and period 30 month to 11/7/2010		CEIEC+ SINOHYDRO	Thailand/ Laos	
22	Sekong Downstream	Attapeu		76 MW	MOU Signed 26/8/2010		V&H Corporation Co.,Ltd (Laos)		
23	Thakho	Champasak		172 MW	MOU Signed 17/3/2009 and period 18 months		Companie Nationale du Rhone (CNR) EDL	Laos	FS on going
24	Xebanghieng 1	Savannakhet		50 MW	MOU Signed 10/6/2012		CWE	Laos	FS on going
25	Xebanghieng 2	Savannakhet		52 MW	MOU Signed 10/6/2012		CWE	Laos	FS on going
26	Xe Neua	Khammouane		53 MW	MOU Signed 16.5.2006 and period 18 month to 16/11/2007		Phonesack Bridge&Road Construction Co., Ltd	Laos	FS on going
27	Nam Ang Tha beng	Attapeu		30 MW	MOU Signed 15.3.2011		ECI (Laos) Velcan Energy (France)		
28	Xepian-Houaysoy	Attapeu		100 MW	MOU Signed 26/6/2010 and period 18 months		Houay Ho Power	Thailand	FS on going
29	Xelanong 1	Savannakhet		80 MW	MOU Signed 28/6/2011		• Sunpaper Holding Lao Co, Ltd. • Daosavanh Investment & Construction Group		
30	Xelanong 2	Savannakhet		50 MW	MOU Signed 11/7/2012		• China Gezlouba Grop Company Limited		

5. Power Projects in Lao PDR - Feasibility Stage (MOU Stage)(cont)

31	Xetanuan	Savannakhet	30 MW	MOU Signed 11/7/2012		• China Gezlouba Grop Company Limited		
32	Xesu	Attapue	40-60 MW	MOU Signed 10/9/2011		Hoan gAnh Gai Lai Mineral Jiont Stock Co., Ltd (Vietnam)		

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