

Potential for Hydros in the Philippines and Other Countries

3 September 2009



www.aboitzpower.com



Potential Luzon Hydros (MW)

Plant	capacity
Cabinbin	1
Catingas	1
Colasi	1
kapijian	3
Hitoma	3
Batang-Batang	4
Dugui	4
Cantukoy	5
Hapao	5
Langogan	7
Cabulig	9
Bokiawan	10
Aglubang	14
Balintingon	16

Plant	Capacity
Culaman	18
Catuiran	18
Odiongan	20
Amburayan	30
Addalam	46
Natalang	46
Aklan	57
Abuan	60
Ilaguen	80
Kanan	113
Malayon	270
Diduyun	332
Agbulo	360
Laguna	708

2,239MW



Potential Visayas Hydros (MW)

Plant	capacity
Bugtong	1
Bohol	2
Amandaraga	4
Igbolo	4
Siaton	5
Daan sur	9
Okoy	12
Sicopong	18
Catuiran	24
Timbaban	29
Villasiga	32
Pacuan	33
Cebu hydro	50
	223

Potential Mindanao Hydros (MW)

Plant	capacity
Hinubasan	0
Catigas	1
Upper Dapitan	4
Lower Dapitan	4
Middle Dapitan	4
Taguibo	7
Libungan	10
Lanon	10
Kanapnapan	10
Liangan	12
Pugu	20
Mainit	22
Tagoloan	60
Bulanog Batan	150
Agus 3	225
Pulangi 5	300
	839

Hydros to be Privatized

Angat

- 250MW installed capacity
- Effectively 50MW due to prioritization of water supply

IPP Administrator Contracts

(the right to dispatch and sell power from BOT hydros)

- Bakun - 75MW run-of-river
- San Roque - 345MW impounding, prioritized for irrigation
- Casecnan - 150MW run-of-river

Incentives

Renewable Energy Act

- Feed-in Tariff
- Green energy option
- Net metering
- 7 year income tax holiday (ITH) or
- Accelerated depreciation (instead of ITH)
- Duty free importation of renewable energy machinery
- Special realty tax rate
- 3 year net operating loss carryover
- 10% corporate income tax rate
- Zero percent value added tax rate
- Energy-based cash incentive for missionary areas (50% of univ. charge)
- Tax exemption on carbon credits
- Tax credits on domestic capital equipment
- Exemption from universal charge for off-grid generation
- Energy based transmission charges
- Must dispatch for intermittent RE generation

Potential Hydros in Other Countries

Most developed countries have already built hydros on the best sites. Additional sites are likely to be marginal

Attractive, undeveloped sites are most likely to be in “frontiers” like

Country	Issues
Laos	<ul style="list-style-type: none">• No transmission backbone• No demand• Nearest buyer is Thailand
Myanmar	<ul style="list-style-type: none">• Foreign political opposition
Africa	<ul style="list-style-type: none">• Security• Governance

END



www.aboitzpower.com

