

**Indonesian nuclear power reactors, under governmental consideration,
2010 - 2015**

(updated 30 June 2015)

	Location	Region	Purpose	Size	Partners/ Collaborators	Status
1	Tanah Abang, Desa Balong	Muria peninsula, Central Java	LWR NPP	4 x 1,000 MW	BATAN; IAEA	Feasibility study completed 1996; "5 years further study required" (2012). ¹
2	Muntok/ Teluk Inggris, West Bangka	Bangka-Belitung	LWR NPP	6 x 1,000 MW	BATAN; Bangka-Belitung provincial government	Feasibility study completed 2013. ²
3	Tanjung Barani, South Bangka	Bangka-Belitung	LWR NPP	4 x 1,000 MW	BATAN; Bangka-Belitung provincial government	Feasibility study completed 2013 ³
4	Unspecified	Bangka-Belitung	SMR		BATAN	Proposed August 2013. ⁴
5	Berau and East Kutai ⁵	East Kalimantan	LWR NPP	1,000 MW	BATAN; East Kalimantan provincial government; Ministry of Research and Technology	Min. of Research and Technology support 2012 ⁶ ; provincial government support 2015 ⁷ ; feasibility study reported in preparation 2015. ⁸
6	Dekan Putih, Kubu Raya, and Ketapang ⁹	West Kalimantan	LWR NPP	30 MW	BATAN; West Kalimantan provincial government ¹⁰	Feasibility study reported in preparation 2015. ¹¹
7	Unspecified	Central Kalimantan			Pertamina ¹² ; Central Kalimantan provincial government ¹³	Feasibility study proposed by provincial government (2015) ¹⁴
8	Gorontalo	Gorontalo	FNPP ¹⁵	90 MW	Gorontalo provincial government; RAO UES (Unified Energy System of Russia); Rosatom	Enthusiastically pursued by RAO UES/Rosatom and the provincial government in mid-2000s; subsequently

						dormant but re-emerged in 2010.
9	Pulau Panjang, Banten	West Java	LWR NPP			Announcements 2008-2015. ¹⁶
10	Kramatwaru-Bojonegara, Banten	West Java	LWR NPP			Announcements 2010-2015. ¹⁷
11	Serpong	West Java	NCPR	10 MWe	BATAN	Announced 2013. ¹⁸
12	Serpong	West Java		30 MWe	BATAN	Announced 2013 ¹⁹ Note this proposal may refer to 11 above.
13	Subang	West Java		600 Mw	BATAN Teknologi; Rosatom PT Pertamina, PT Waskita Karya, PT Dahana ²⁰	Announced 2014. ²¹ Note separate 2014 Batan Tekno proposal for a Subang Babcox and Brown reactor to produce radioisotopes (capacity 3,000 curies). ²²
14	Unspecified		HGTR	10-30 MWe	BATAN/ Japan Atomic Energy Agency ²³	Demonstration plant to start operations “by 2020”; operation “by 2031”.
15	Unspecified		Pebble bed HTGR		BATAN; RENUKO “a consortium of Russian and Indonesian companies led by NUKEM Technologies” ²⁴ (Rosatom subsidiary)	
15	Unspecified		TWR	500 MW	BATAN Teknologi; Terra Power (Bill Gates) ²⁵	BATAN Teknologi proposal 2014
16	Batam ²⁶	Riau	LWR NPP	2 x 1,200 MW	Riau provincial government; Rosatom; BATAN ²⁷	

Abbreviations

FNPP: Floating Nuclear Power Plant
HTGR: High Temperature Gas Reactor
LWR: Light Water Reactor
NCPR: non-commercial power reactor
NPP: nuclear power plant
SMR: Small Modular Reactor
TWR: Travelling Wave Reactor

· Available online as Richard Tanter, “Table: Indonesian nuclear power reactors, under governmental consideration, 2010 – 2015”, at <http://nautilus.org/network/associates/richard-tanter/publications/>.

¹ Sriyana, *Current status of Indonesia’s nuclear power programme*, IAEA Technical Meeting/Workshop on Topical Issues on Infrastructure Development: Managing the Development of National Infrastructure for NPP, Vienna, 24 – 27 January 2012, p. 26.

² Yarianto S Budi Susilo, *BATAN Feasibility Study Project for SMR Deployment in Bangka-Belitung*, Workshop on Advanced and Small and Medium-sized Reactors (SMRs) for Embarking Countries Jakarta, 19-20 August 2013.

³ *Ibid.*

⁴ *Ibid.*

⁵ “PLTN Segera Berdiri di Kalimantan Timur”, *Varia.id*, 21 Maret 2015, at <http://www.varia.id/2015/03/21/pltn-segera-berdiri-di-kalimantan-timur/>; and Septian Deny, 'Pemprov Kaltim Bernafsu Bangun PLTN', *Liputan6*, 13 April 2015, at <http://bisnis.liputan6.com/read/2212618/pemprov-kaltim-bernafsu-bangun-pltn>.

⁶ “Menristek Dukung Bangun PLTN di Kalimantan Timur”, *Media Indonesia*, 11 November 2012, a <https://medianuklir.wordpress.com/2012/11/23/menristek-dukung-bangun-pltn-di-kalimantan-timur/>; and “Menristek Dukung Pembangunan PLTN”, *Antara Bali*, 22 November 2012, at <http://www2.antarabali.com/berita/30622/menristek-dukung-pembangunan-pltn>.

⁷ “Kaltim minta Presiden restui rencana pembangkit nuklir”, *Tambang.co.id*, 13 April 2015, at <http://www.tambang.co.id/kaltim-minta-presiden-restui-rencana-bangun-pembangkit-nuklir-5360/>.

⁸ Robby Ifani, “Nuclear Power Plant Projected to be Build in Kalimantan”, *Tempo*, 11 May 2015, at <http://www.tempo.co/read/news/2015/05/11/056665216/Nuclear-Power-Plant-Projected-to-be-Build-in-Kalimantan>; and Marsodi, *Status of nuclear power development planning, feasibility and building of the regulatory infrastructure*, IAEA Technical Meeting on Infrastructure Development: Nuclear Power Project Development in Emerging Nuclear Power States, Vienna, Austria, 11-14 February, 2013, at <http://www.iaea.org/NuclearPower/Downloadable/Meetings/2013/2013-02-11-02-14-TM-INDIG/34.marsodi.pdf>.

⁹ Hadi Suntoko, “Identifikasi daerah interest calon tapak PLTN Kalimantan Barat berdasarkan kriteria umum”, *Eksplorium*, Volume 35 No. 1, Mei 2014, p. 76.

¹⁰ Ifani, *op.cit.*

¹¹ Marsodi, *op.cit.*; Ifani, *op.cit.*; and “Pulau Kalimantan cocok dikembangkan PLTN”, *Energi Baru Terbarukan dan Konservasi Energi*, Kementerian Energi dan Sumber Daya Mineral, 4 August 2014, at <http://ebtke.esdm.go.id/post/2014/08/04/642/pulau.kalimantan.cocok.dikembangkan.pltn>.

¹² “Pertamina Kaji Proyek PLTN di Kalimantan”, *EnergiToday*, 10 April 2015, at <http://energitoday.com/2015/04/10/pertamina-kaji-proyek-pltn-di-kalimantan/>.

¹³ Yohannes Sardjono, “Prospects and Technical Requirements on SMR: Indonesian Case Study,” in Consultants’ Meeting on the Status of Innovative Small and Medium Sized Reactor (SMR) Technology and Designs with the Potential for Near Term Deployment, (Vienna, Austria: International Atomic Energy Agency, 2011), at https://www.iaea.org/NuclearPower/Downloads/Technology/meetings/2011-05-2-4-CM-SMR/Day-2/4_INDONESIA_Sardjono_SMR_Kalimantan.pdf; and “Amerika incar nuklir di Kalimantan Tengah”, *TribunNews.com*, 30 Maret 2015, at <http://www.tribunnews.com/regional/2015/03/30/amerika-incar-nuklir-di-kalimantan-tengah>.

¹⁴ “Amerika incar nuklir di Kalimantan Tengah”, *op.cit.*

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