MINISTRY OF ELECTRICITY AND ENERGY

Country Presentation of Myanmar

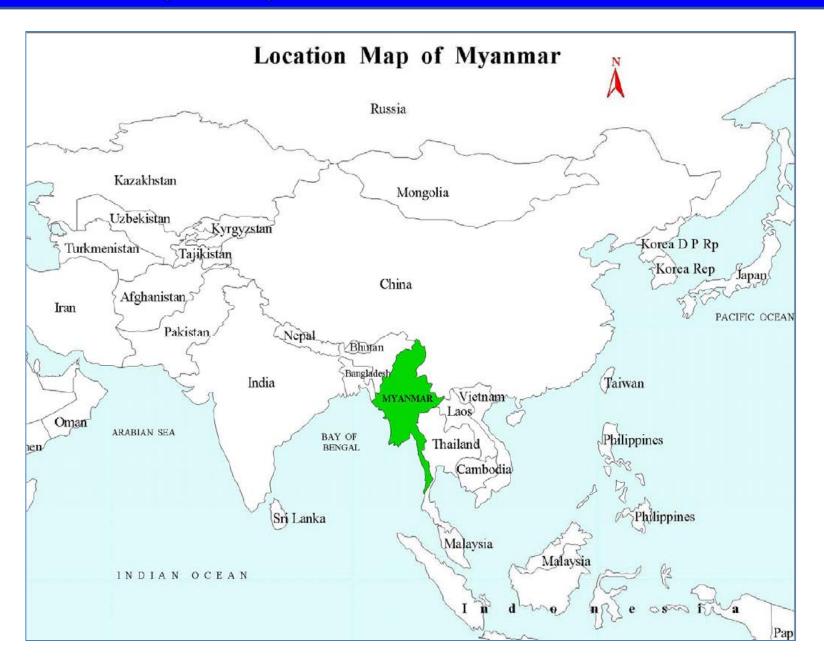


Kyaw Swa, Deputy Director Soe Soe Nyein, Assistant Director

CONTENTS

- ✓ Profile of MYANMAR
- ✓ Profile of Organization
- ✓ National Energy Policy
- ✓ Future Plan

Location Map of Myanmar



FACTS ABOUT MYANMAR

❖ Location South East Asia

❖ Neighboring Countries China, Laos, Thailand,

Bangladesh & India

♦ Latitude 09°-32′ N & 28°-10′ N

♦Longitudes 92°-10′ E & 101°-11′ E

❖Territorial Area 676,552 km²

❖East to West 582 miles (936 km)

❖International Boundary 3642 miles (5860 km)

♦ Coastal Strip 1761 miles (2833 km)

❖North to South 1275miles (2051 km)

❖Population about 51Million

❖ GDP 6.5❖(Average Growth Rate-1% per Annum)



IEEJ: August 2016 © IEEJ2016

Structure of Ministry of Electricity and Energy

Minister's Office

Department of Electric Power Planning

Oil and Gas Planning Department

Department of Hydropower Implementation

Myanma Oil and Gas Enterprise

Department of Power Transmission and **System Control**

Myanma Petrochemical Enterprise

Electric Power Generation Enterprise

Myanma Petroleum Products Enterprise

Electricity Supply Enterprise

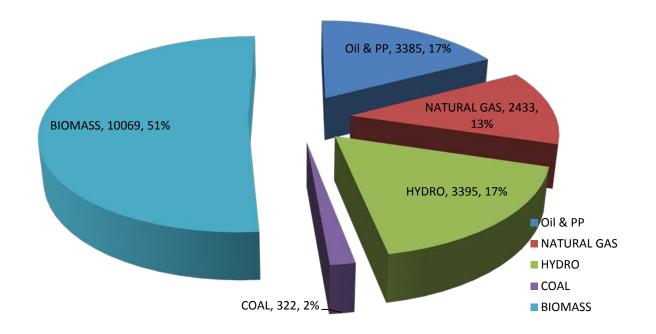
Yangon Electricity Supply Corporation

Mandalay Electricity Supply Corporation

Energy Resources Potential

1	Crude Oil	2100 Million Stock Tank Bbl
	(Offshore & Onshore)	(Proved as at 1-4-2011)
2	Natural Gas	25 TCF
	(Offshore & Onshore)	(Proved as at 1-4-2011)
3	Oil Shale (65 Sq. Miles)	720 to 3300 Million Barrel
		(Gross Estimated)
4	Coal	711 Million Metric Tons
	(Sub-Bituminous and Lignite)	(Gross Estimated)
5	Hydro	49,220 MW in 303 locations
		(Gross Estimated)
6	Biomass, Biogas and	About 52.5% of total land area covered with forest,
	Bio-fuel	Manufactured Digesters in rural area.
7	Wind	365.1 TWH per year New Energy and Industrial
		Development Organization (NEDO)
8	Solar Power	51973.8 TWH per year by (NEDO)
9	Geothermal	93 Locations, (26.7°C to 65°C) in 43 locations, Estimated
	Geotherman	max. 200°C in underground.
10	Others	Tide, Wave etc.

Primary Energy Supply (2014-15) KTOE



Annual Development of Installed Capacity and Generation

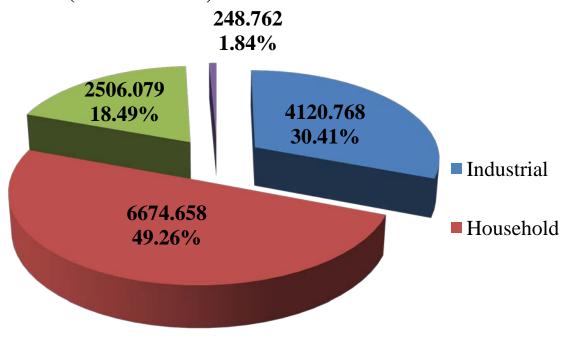
No	Year	Installed Capacity (MW)						Annual Generation	
		Coal	Hydro	Gas	Diesel	Total	Growt h Rate (%)	kWh (million)	Growth Rate (%)
1	2010-2011	120	2,522	715	56	3,413		8,625.11	
2	2011-2012	120	2,693	715	60	3,588	5%	10,425.03	21%
3	2012-2013	120	2,813	715	78	3,726	4%	10,964.90	5%
4	2013-2014	120	3,005	936	85	4,146	11%	12,247.12	12%
5	2014-2015	120	3,185	1,411	89	4,805	16%	14,156.30	16%
6	2015-2016	120	3,185	1,829	101	5,235	9%	15971.96	13%

➤ The Energy mixed ratio of 2010-2011 is hydro 74%, Gas 21% and others 5%. Up to now, the installed capacity ratio is gas turbines 35%, hydro 61% and others 4% and the power generation also increase based on the installed capacity.

Development of Annual Consumption in FY 2015-2016

Category		Industrial	Household	Commercial	Others	Total
Unit	(kWh Million)	4120.768	6674.658	2506.079	248.762	13550.267
	Percent	30.41	49.26	18.49	1.84	100





IEEJ: August 2016 © IEEJ2016

Development of Annual Consumption per Capital

No.	Year	Total Consumption (kWh - million)	Electrified No of Household (Million)	Household Percentage	Per Capital Consumption (kWh / yr)
1	2010-2011	6,467.30	2.22	25%	108
2	2011-2012	7,876.72	2.42	26%	131
3	2012-2013	8.441.04	2.63	28%	141
4	2013-2014	9,795.09	2.91	31%	163
5	2014-2015	11,406.76	3.26	29%	222
6	2015-2016	13,550.267	3.70	34%	263

National Energy Policy

- To implement short term and long term comprehensive energy development plan based on systematically investigated data on the potential energy resources which are feasible and can be practically exploited considering minimum impact on natural environment and social environment
- To institute laws, rules and regulations in order to promote private sector participation and to privatize State Energy Organizations in line with State Economic Reform Policy.
- To compile systematic statistics on domestic and supply of various different kinds of energy resources of Myanmar
- To implement programs by which local population could proportionally enjoy the benefit of energy reserve discovered in the areas
- To implement programs on a wider scale, utilizing renewable energy resources such as wind, solar, hydro, geothermal and bioenergy for the sustainable energy development in Myanmar

National Energy Policy

- To Promote Energy Efficiency and Energy Conservation
- To establish R, D, D & D (Research, Development, Design, and Dissemination)
 Institution in order to keep abreast with international practices in energy resources exploration and development works and to produce international quality products in order to manufacture quality products and in order to conduct energy resources exploration works in accordance with international standard
- To promote international collaboration in energy matters
- To formulate appropriate policy for energy product pricing meeting economic security of energy producers and energy consumers

Future Plans for Power Development

- National Electricity Master Plan which covered the long-term generation and transmission plan up to 2030 was implemented by JICA assistance.
- ➤ Japanese Consultant team, NEWJEC began the study on July 2013 and the Final Report was submitted to Ministry of Electric Power on December 2014.

Way forward

- To Amend and Issue the Legal document in accordance with current situation
- To achieve Public awareness for Electricity & Energy saving, conservation and efficiency in household, industrial and transportation
- > To create energy mix in power development
- To produce more energy from potential renewable energy
- To encourage energy procurement and consumption for environmental protection

Thanks you for your Attention



Contact : report@tky.ieej.or.jp