Sharing Session at ICLAD 2018

People Transition Towards Reimagining TNB



TNB's history...

Electricity Department

Central Electricity Board 1949-1965

National Electricity Board 1965 -1990

Tenaga Nasional Berhad 1990

1946

 Electricity first made its appearance in this country at the turn of the 20th century, and the earliest record of power generation can be traced back to a small mining town in Rawang, Selangor Lembaga Letrik Pusat (Central Electricity Board, CEB) was established and came into operation on 1 September 1949.

- The Board was to become heir to three major projects considered by the Electricity Department following its establishment in April 1946 which were the Connaught Bridge Power Station, Cameron Highlands Hydroelectric Project & the development of a National Grid.
- CEB eventually became the owner of **34 power stations**





- On 22 June 1965, Central Electricity Board (CEB) of the Federation of Malaya was **renamed** the Lembaga Letrik Negara (National Electricity Board, NEB) of the States of Malaya.
- By the 1980s, the Board was supplying the whole peninsula with electricity, replacing the Perak River Hydro Electric Power company (PRHEP) ,Kinta Electrical Distribution Co. Ltd (KED) ,Penang Municipality, and Huttenbach Ltd
- On 4 May 1988, Prime Minister Mahathir Mohamad announced the government's decision on a policy of privatisation.



• Tenaga Nasional Berhad (TNB) was formed in 1990 by the Electricity Supply Successor Company Act 1990, to succeed the National Electricity Board (NEB) of the States of Malaya.



Since then, TNB has been progressive in its transformation programs and has strong aspiration towards becoming a Global Energy Champion





No 2 Power utility in Asia (Platts)

#1 Largest company on KLSE Global footprint in 4 countries Started in 2012, TNB's DDRC Transformation was to further entrench TNB leadership in Malaysia and establishing a firm presence in the region through delivery of 6 Key Result Areas (KRAs)



Domestic Dominance, Regional Champion (DDRC)



By end FY2016, the transformation program has significantly improved TNB's business operations, financial positions and organization capabilities



Global trends and domestic business environment continue to pose challenges to TNB business... change is inevitable

Global Trends		Domestic Trends		
Economic shifts Power is shifting towards Asian and emerging market economies Technology disruptions Dramatically changing the power `sector and customer demands	Shareholder expectations Shareholders demanding not just greater returns but sustainable/green returns and transparency Regulations evolving Increasing competition due to market liberalisation	Slowing demand growth 2020 forecast electricity sales growth to reduce to <1.92%		Gas Market Deregulation First step towards a market- based pricing of energy
		Overcapacity Generation reserve margin rise from 25% to 44% in 2021		Market Liberalization ST is pushing for electricity market by 2025; part of RMK11
		Renewables Lockout TNB has only managed to secure 12% of LSS capacity		Distributed Renewables NEM targeting 500MW of roof top solar
				1



LSS - Large Scale Solar ST – Suruhanjaya Tenaga RMK11 – Rancangan Malaysia Ke 11 NEM – New Energy Meter

Utilities too need to transform in lieu of the <u>4De</u> triggers



Deregulation



Decarbonization





Standing still is not an option... In midst of these challenging trends, there are significant opportunities ahead for TNB... hence Reimagining TNB



1 Growth

Compete to capture new growth opportunities in Emerging markets

Customer

Win the **Digital Age customer** through anytime, anywhere, mobile service and beyond the kWh services

3 Government

Manage relationship with the regulators to future-proof and transform TNB's core power business

Productivity

Unleash step change in productivity using **technolog**y for automation and productivity improvements

Digital Technologies are a part of the journey towards Reimagining TNB.....



Empowering our customers and enhancing the grid continue to be our priority....



Empowering Customers through the Grid of the Future

TNB have and are initiating new skills amongst employees via reskilling, upskilling and new hiring to support the initiatives towards Reimagining TNB



Studies indicate that ~ 6 to 10% of employees will be affected by these initiatives **Smart Billing System**

Conventional Power Plant phaseouts

More RE initiatives

Demarcation of roles in support service functions (Centre of Expertise and Business Partners)

Centralisation of support services

More automation (e.g. Auto-billing)

TNB's approach in managing people transition is aimed at improving productivity and towards realizing Reimagining TNB



Promote growth for TNB employees at all levels via engagement, development and learning programs



Promote and inculcate value creation for all initiatives (e.g. Project Assignment)



Actively and continuously engaging employees at all levels to build trust, commitment and harmony amongst employees in TNB



Thank You

