



TRANSFORMASI PENGEMBANGAN BISNIS & SDM PERTAMINA

Senin, 10 Agustus 2020

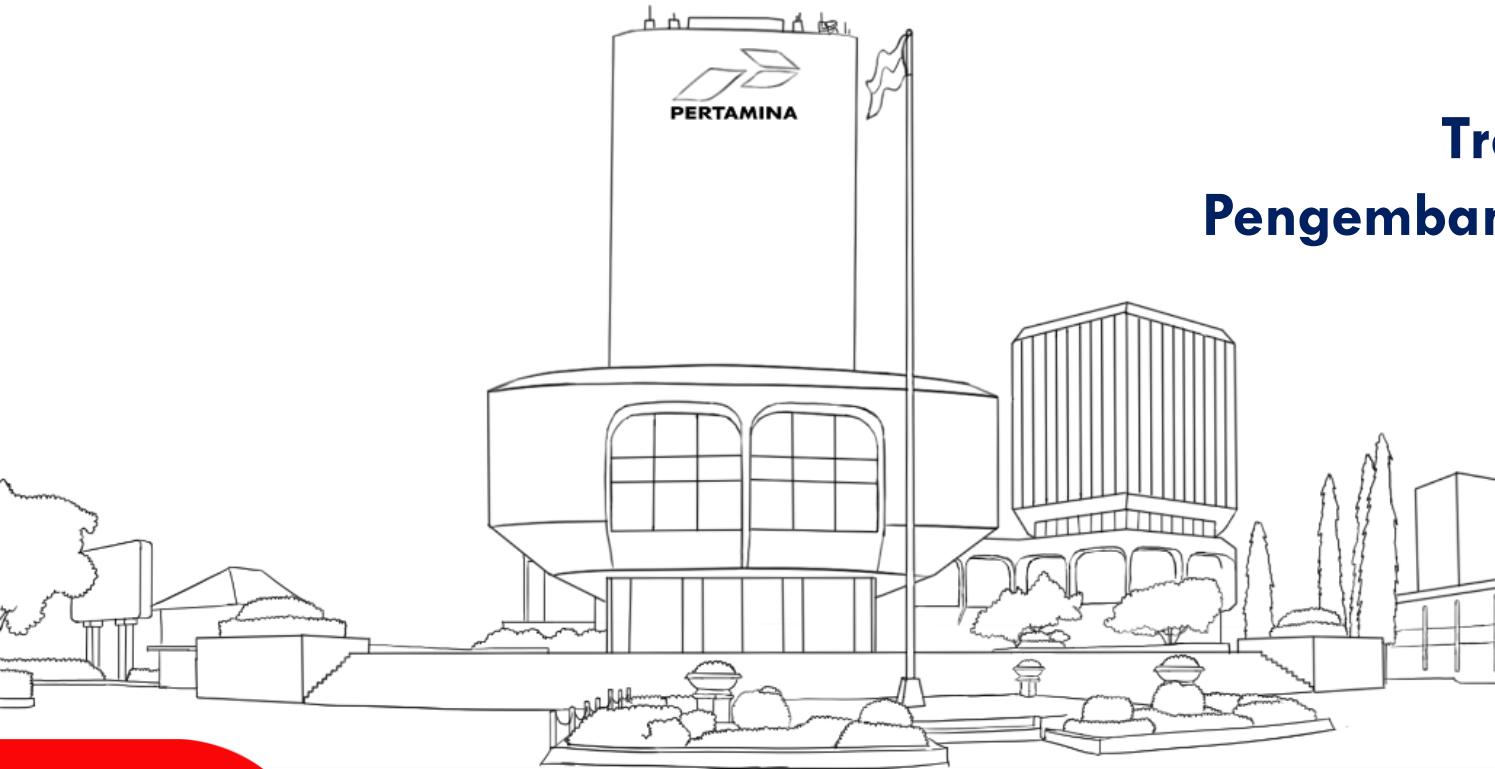
AGENDA

Transformasi Pengembangan Bisnis

01

02

Transformasi
Pengembangan SDM

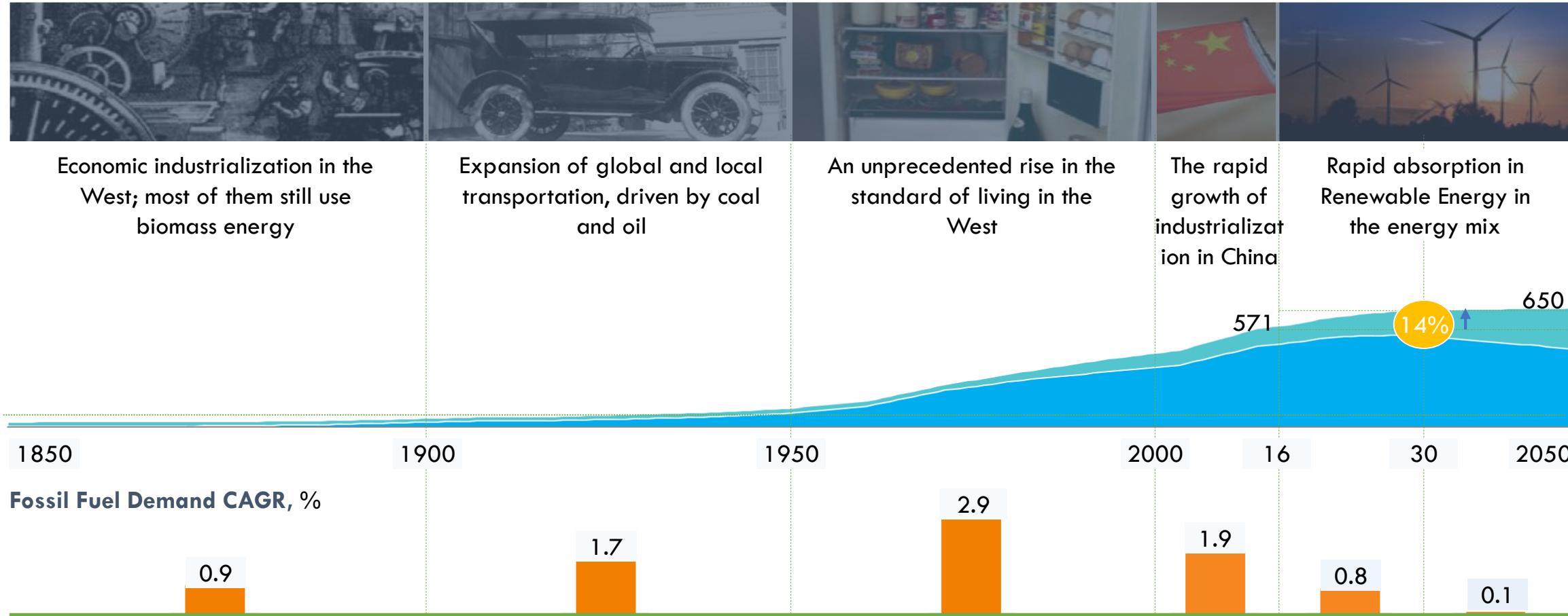


Background: Global Megatrends in the Energy Sector (1/3)

The peak growth in world fossil energy is estimated to be in 2030, mainly driven by the penetration of new and renewable energy sources into the energy mix

Global primary energy demand

Million terajoules (TJ)



Background: Global Megatrends in the Energy Sector (2/3)

Megatrends in the Energy Sector also have a major impact on National Energy

Oil



Chemicals



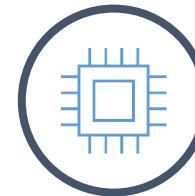
Gas



Electricity



Digital



Global



Global oil demand could peak by 2033;
EV gaining rapid momentum (global annual EV sales exceeding 100 million by 2035)

Chemical sector accounts for more than half of oil demand growth in the next 15 years
Petrochemical Demand shifting to Asia

Gas to grow steadily until 2035;
Gas demand will be increasingly met with LNG

Electricity consumption doubles by 2050;
Renewables over 50% of generation by 2035.

Digital transforming entire energy value chain

Indonesia



Indonesia oil demand expected to grow but slower
Peak oil in road transport expected in 2033 (E2W may reach ~18mn by 2035)

Oil demand in chemicals to increase 5X by 2035 (from 70 kbpd in 2017 to 350+ kbpd in 2035)

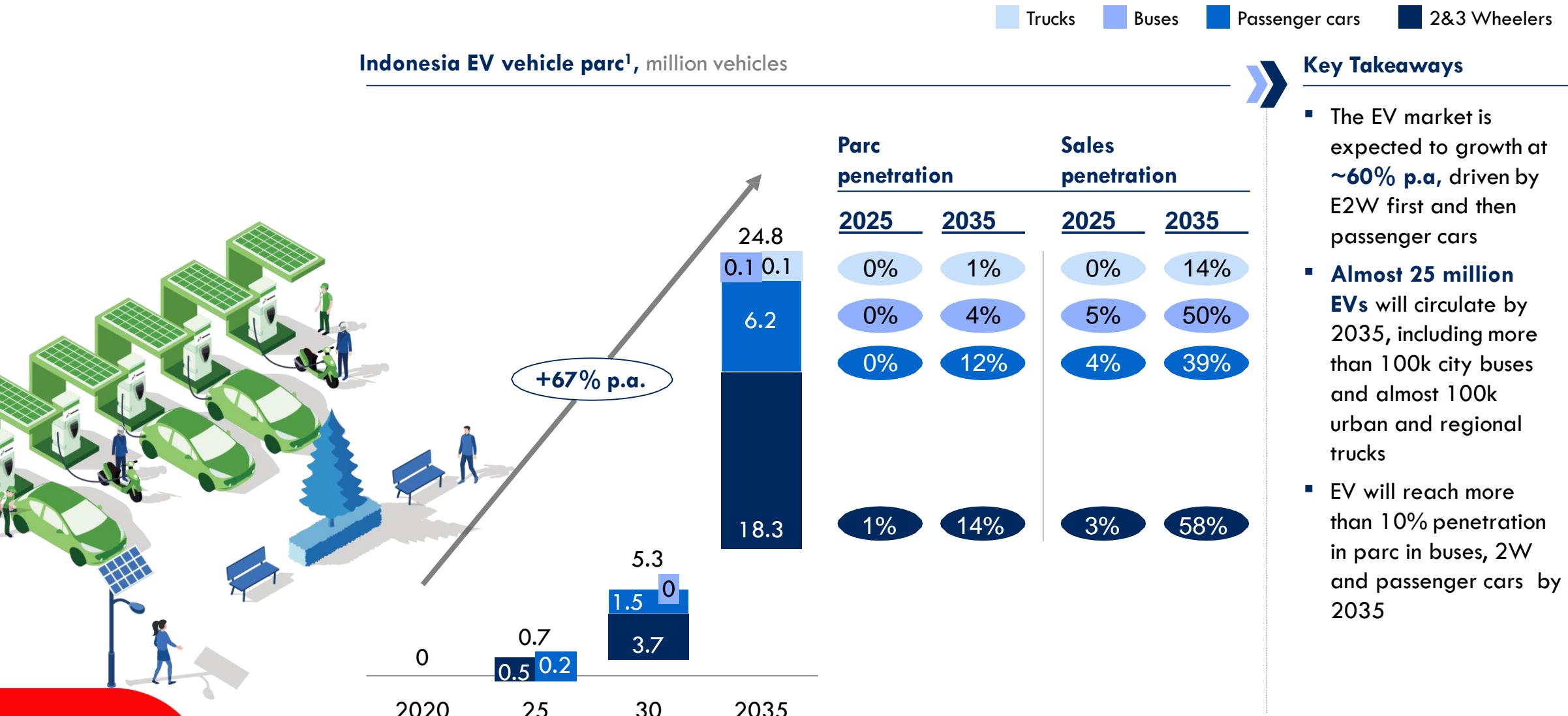
Transition from a net exporter to a net importer by 2028 if new domestic resources cannot be monetized at economic prices

Electricity demand more than double by 2035;
Coal continues to be dominant
Gas & renewables to increase

Adoption of i4.0 technologies at scale not yet wide spread (~20% vs world average of ~45%), companies still in pilot stage

Background: Global Megatrends in the Energy Sector (3/3)

EV penetration is expected to be driven by E2W, potentially reaching ~18 million Electric 2 Wheels (E2W) by 2035



Latar Belakang: Strategi Perusahaan Global

Longer term: International oil companies are responding differently to megatrends

Emergence of new portfolio archetypes	Majors	Description
 Shale focus alongside key conventional projects	  ConocoPhillips	<p>Focus on short-cycle unconventional</p> <p>Select high-return conventional projects</p> <p>Investments focused on petroleum</p> <p><i>"We're increasingly confident about our Permian growth strategy due to our unique development plans" (Neil Chapman, ExxonMobil Senior Vice President)</i></p>
 Streamlined O&G portfolio alongside increased investment in new energy	 	<p>Streamlined portfolio</p> <p>Deepwater and LNG focus</p> <p>Investment in new energy to satisfy investors</p> <p><i>... having a balanced portfolio with advantaged oil and gas, a competitive downstream and a range of low carbon activities... gives us optionality" (ENI strategy)</i></p>
 Low carbon focus and diversification into new energy	 	<p>Strategic shift to an energy company</p> <p>Upstream portfolio shift to gas</p> <p>Strong investment in low carbon energy</p> <p><i>"The world's carbon budget is finite and running out fast; we need a rapid transition to net zero", (Bernard Looney, BP CEO)</i></p> <p><i>"We believe we can be the largest electricity power company in the world in the early 2030s" (Maarten Wetselaar, Director, Shell Integrated Gas & New Energies)</i></p>
 Unleashed Domestic Resources and Strengthening Domestic Market		<p>Building capacity in Upstream, Refinery, Petrochemical and Supply Chain Infrastructure</p> <p>Petrochemical Products Development up to Specialties</p> <p>Downstreamization Domestic Resources, including Biofuel Dev. (Crude, Gas, CPO, and Coal)</p>

New & Renewable Energy Development Framework

The program to be run by Subholding Power & NRE



¹ Manufacture Solar Cell, Module, Flexible Thin Film

² Diversification from geothermal : direct use of steams for industrial, direct sale of electricity to RE-100 company, CO2 plant, H2 plant, mineral extraction plant (sillicone, lithium, boron)

³ Cumulative total investment 2020-2026

⁴ Cumulative revenue 2020-2026

Pertamina's Initiative on Research & Technology

Product Development and Innovation in the NRE sector

Bioenergy:

- **Biocrude**
Lignocellulosic Bioethanol & Bio Crude Oil, Micro Algae Oil
- **Biodiesel (HVO)**
- **Bio Gasoline**
- **Bio Avtur**
- **Gasohol**
Mixture of gasoline - methanol with a certain composition
- **Diesel / Fuel Oil Emulsion**
The result of mixing diesel fuel - water - additives to save energy and reduce exhaust emissions
- **Prototype Biogasoline utk F2 dan F3**

EV Related:

- **Battery Cell LFP 18650**
- **Battery Cabinet for Energy Storage 14,4 kWh**
- **Battery Energy Storage System (Modular)**
- **Battery Module 4,8 kWh**
- **Fuel Cell**

DME & Methanol:

- **Dimethyl Ether (DME)**
Cooking Fuel
- **DME Stove**
Cooking Equipment
- **Rubber Seal DME Resistance Material**
Rubber Material for DME Storage
- **Direct Electrolysis CO₂ to Methanol**
- **CO₂ Conversion to Precipitated Calcium Carbonate (PCC)**
- **Direct Hydrogenation CO₂ to Methanol**
- **Methane - CO₂ Dry Reforming to Syngas**
- **Catalyst for Syngas to Methanol Production**

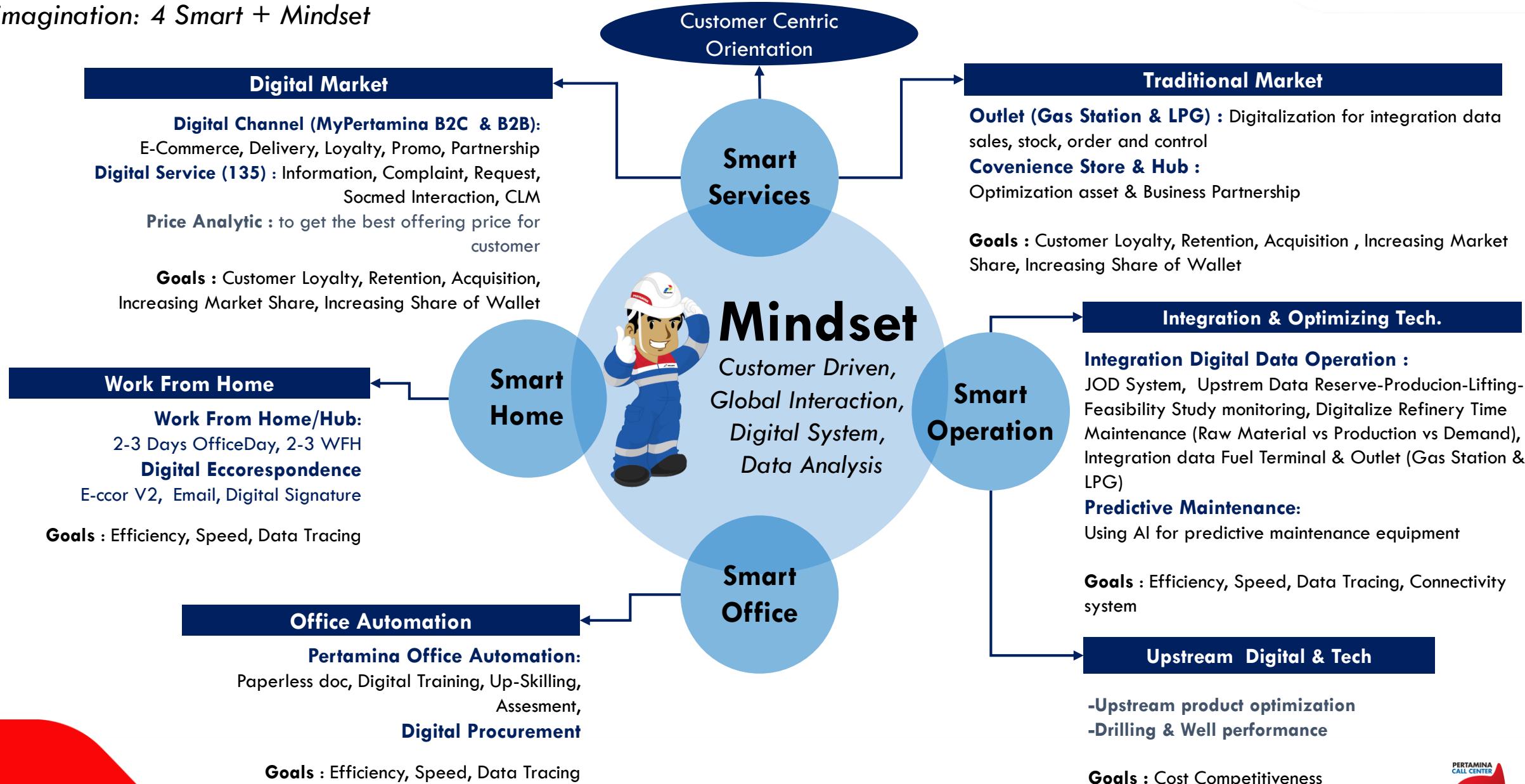
Upstream & EOR:

- **PertaEOR**
EOR Screening study, making EOR Predictive Model, making Economic Analysis for EOR project, Monte Carlo analysis and optimization study
- **PertaSEIS**
Cloud-based Seismic processing software
- **PertaGASTECH**
Adsorbent design equipped with a membrane to capture 3 (three) types of Hg, As, and H₂S gases which are applied for exploration and monitoring of geothermal fields
- **Sludge Oil Recovery**
A gasification / pyrolysis reactor with a capacity of 1 ton is used to process sludge oil into fuel. Sludge oil is a refinery residue product that is categorized as B3 waste.
- **Binary Cycle Geothermal**
- **Chemical Fe Removal Agent**
- **HPHT Drilling & Completion Fluid**



Pertamina Digitalization Framework

Reimagination: 4 Smart + Mindset



Pertamina Digitalization Initiatives to Focus in 2020



Priority initiatives for 2020

- End to End Supply Chain**
- 6 Corporate Marketing Effectiveness, Customer experience and pricing optimization
Lead generation analytics, improvement of MyPertamina, analytics-based pricing
 - 5 Retail Customer Lifecycle Mgmt. (CLM), Experience & Loyalty Program
CLM for retail customers, MyPertamina for monitoring PSO, AI Plate Recognition & Customer Complaints management
 - 4 LPG Digitalization
LPG Sales & Distribution Digitalization
 - 3 Vendor Held Stock (VHS) Digitalization
Monitoring of Stock at Vendors and optimization of delivery accordingly
 - 2 Integrated Supply Chain from Upstream to Marketing
Dynamic Scheduling Automation System Primary Distribution
 - 1 Auto Replenishment¹
Integrated Digitalization of SPBU, MS2, Fleet Management & SAP Secondary Distribution



¹ To complement Initiative #15

CRS Programs in Pertamina

Scholarship and Volunteering Program to attract Millenials and promote NRE

CREATING SHARED VALUE (CSV PROGRAM)

Indonesia Best Corporate Sustainability

5 Desa Mandiri Energi

Peringkat I Desa Mandiri Energi KBUMN

83 Bengkel Mandiri Enduro

192 Siswa Enduro Student Program

Sertifikasi safetyman & securityman > 700 warga lokal

DISASTER MANAGEMENT

Nihil insiden di 15 desa siaga bencana

51 anggota aktif pemuda siap bencana tersertifikasi

BIODIVERSITY PROGRAM

Bekerjasama dengan partner berpengalaman dibawah naungan KLHK (Dirjen Konservasi SDA & Ekosistem)

Penanaman > 300 ribu bibit mangrove & > 150 ribu bibit tanaman endemic

Pelestarian 238 jenis flora dan fauna ; Penanaman > 150 ribu bibit tanaman endemic & Transplantasi > 2.000 bibit terumbu karang



SCHOLARSHIP PROGRAM - BEASISWA SOBAT BUMI

Program Reguler (Mahasiswa S1 Min. semester 4)

Program Khusus (Atlet, Disabilitas, Kawasan Indonesia Timur).

1.668 scholars, 100 athlete scholars

& 28 disabilities scholars

PERTAMINA VILLAGE

62 Desa Binaan melibatkan > 43.000 warga menghasilkan

131 diversifikasi produk & meningkatkan kunjungan wisata tiap tahunnya.

Penghargaan Bronze International CSR Excellence Award :

2 Platinum & 3 Gold ISDA Award.

EMPLOYEE VOLUNTEERING

Pertamina Energi Negeri tahun ke-4 (PEN 4)

Pekerja mengajar, berbagi inspirasi & memberikan bantuan pendidikan.

> 1.500 Relawan Pekerja Pertamina di 150 Sekolah Umum & Sekolah Khusus (Cancer & Disability)

> 3.600 siswa dengan durasi > 3.600 jam mengajar

PERTAMINA SEHATI

> 500 ribu penerima manfaat

Pemberdayaan 119 Posyandu & Puskesmas

Penghargaan dari Bronze PR Asia Award Hongkong :

1 Platinum & 1 Silver Indonesia SDG's Award

New & Renewable Energy CSR Program



Science
Theory
Competition

People



EBT Innovation
Project
Competition

Planet



Profit



Menghasilkan calon SDM unggul yang mampu menciptakan inovasi energi untuk keberlangsungan bumi

Menciptakan inovasi energi yang dapat dikembangkan bersama dengan Pertamina, serta mampu menyelesaikan isu sosial seputar kelangkaan energi di daerah terpencil, pelosok dan/atau terisolir lainnya, yang dapat memberikan dampak positif kepada masyarakat serta lingkungan.

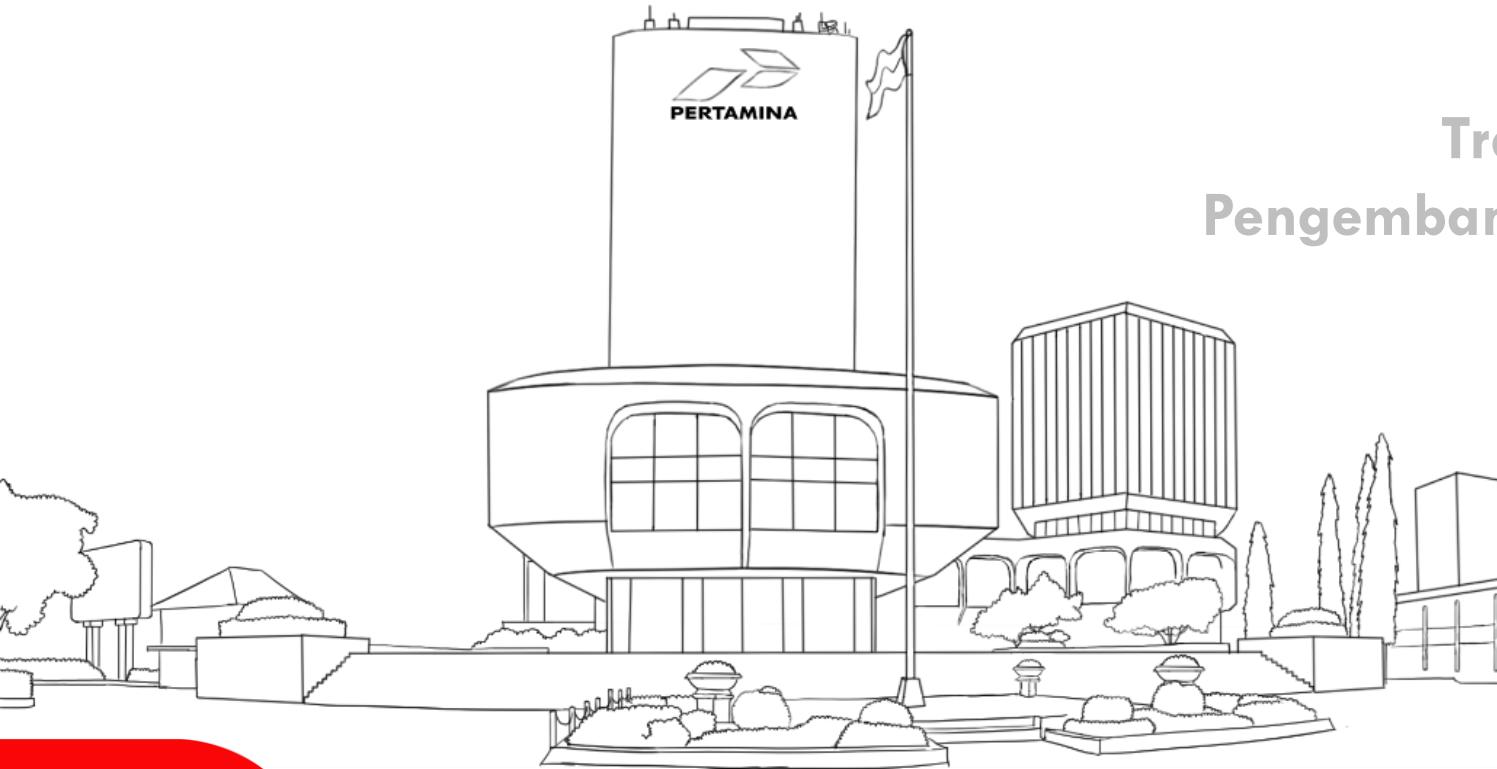
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Millennials?



Millennials Seek

1. Purpose,
2. Invent new ways of doing business and solving problems
3. Create flexibility career
4. Collaborate openly
5. Innovation at work

Deloitte Milenials Survey, 2016		
“Rekan satu tim mereka adalah orang terpenting di tempat kerja”	“80% ingin memberikan penilaian kinerja kepada atasan”	“60% berpikir bahwa jika telah menjalankan jabatannya selama tujuh (7) bulan maka mereka dapat diartikan loyal”
“Mengharapkan umpan balik (feedback) secara mingguan dan perkembangan tahunan”	“2/3 ingin menjadi “kreatif” pada pekerjaannya”	<ul style="list-style-type: none"> • Rekan satu tim (influencer, interactive, trust) • Feedback rutin • Equal treatment • Kreatif – kebebasan

Catatan: Sumber data diperoleh dari No, Millennials will NOT be 75% of the Workforce in 2025 (or ever)!, Anita Lettink, 2019

Deloitte, 2017



Millenial Demographic

Millennial in Indonesia

>63,5 Million



Fact in Numbers:

1. Indonesia experiences a demographic bonus until 2045
2. The population aged 21-36 years is 63.5 million people (about 35% of the productive age 15-64 years)

Ref:

IDN Research Institute : Indonesia Millennials Report

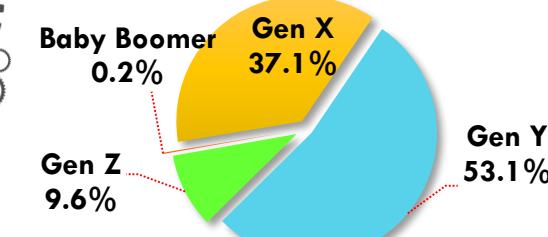


>21K
Total Pertamina
Gen Y + Gen Z
Workers

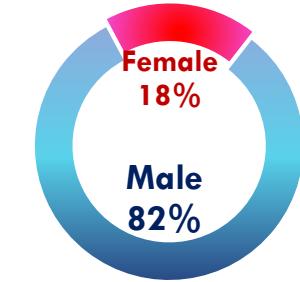
Millenial in Pertamina

Gen Y and Gen Z workers are scattered throughout Pertamina's Business Areas in Indonesia

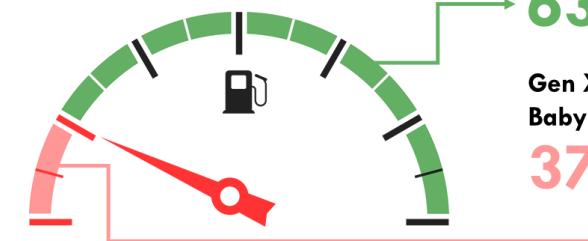
Generation Demographic



Gender Demographic



Gen Y + Gen Z



Gen X +
Baby Boomer
37%

1. Total employees of Pertamina Group: 34,065 people
2. Total Gen Y and Gen Z Workers: 21,366 people
3. Gen Y: born 1 Jan 1980 - 31 Dec 1994 (ref.McKinsey & Co.)
4. Gen Z: born 1 Jan 1995 - 31 Dec 2010 (ref.McKinsey & Co.)
5. Employee Demographic Data based on Pertamina SAP data Group as of July 1, 2020

Pertamina Ecosystem



Profit

The energy of great economic growth can continue to strengthen the robustness of Pertamina's financial capital and reflect the element of "profit".

Planet

Communities and the environment are a great energy for sustainable growth to continue to maintain the robustness of Pertamina's natural capital and reflect the "planetary" element

People

Employees and students who are **competent, passionate and have high entrepreneurial spirit** become extraordinary energy for the growth of Indonesian people so that Pertamina's human capital can be more robust and reflect the "people" element

Millenials And The Next Practices

Surpassing Industry Leaders and Achieving Pertamina's Global Energy Champion aspiration can be achieved by executing Next Practices Strategy

Best Practices

Well Documented

Imitation

Lagging

Help Organization keep up with competitors

VS

Next Practices

Not Widely Known

Innovation

Leading

Help Organization **surpass** the competitors

Data Analytics is Key

1. New Way of Learning
2. New Way of Decision Making
3. Business Model Innovation

Millenials And Key Competencies

Data Analytics and Digital Savvy are the keys to achieve doubled revenue target within 5 years

A. What need to develop and improve

1. Leadership Behavior

- ✓ Digital Savvy
- ✓ Agility
- ✓ Learning Agility
- ✓ Innovation & Creativity
- ✓ Collaboration

2. Strengthen Technical Competencies

- ✓ Data Analytics
- ✓ People Analytics
- ✓ Digital Risk Mitigation
- ✓ Business Analysis and forecasting

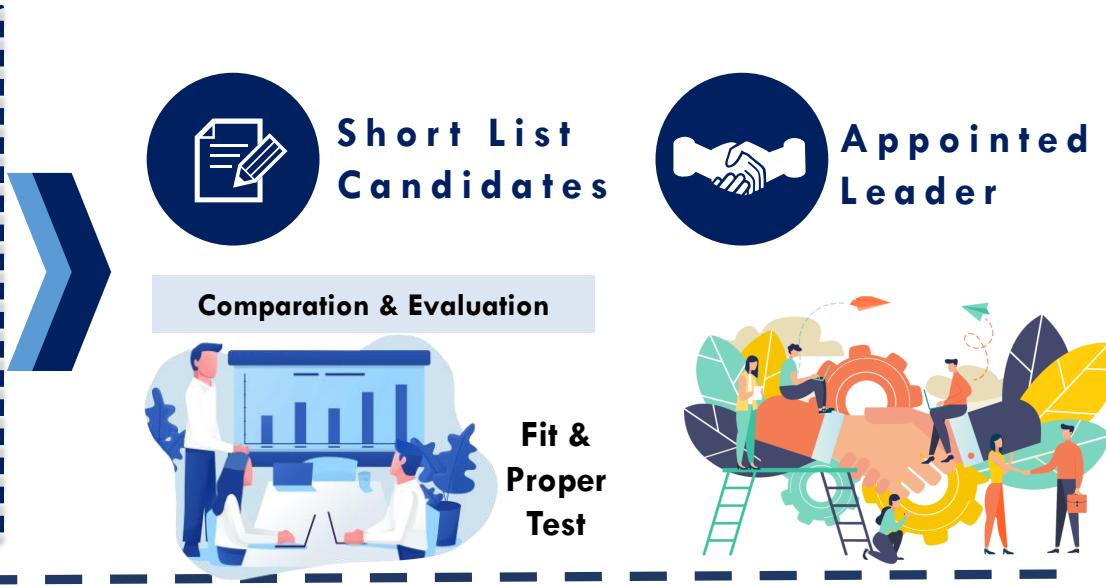
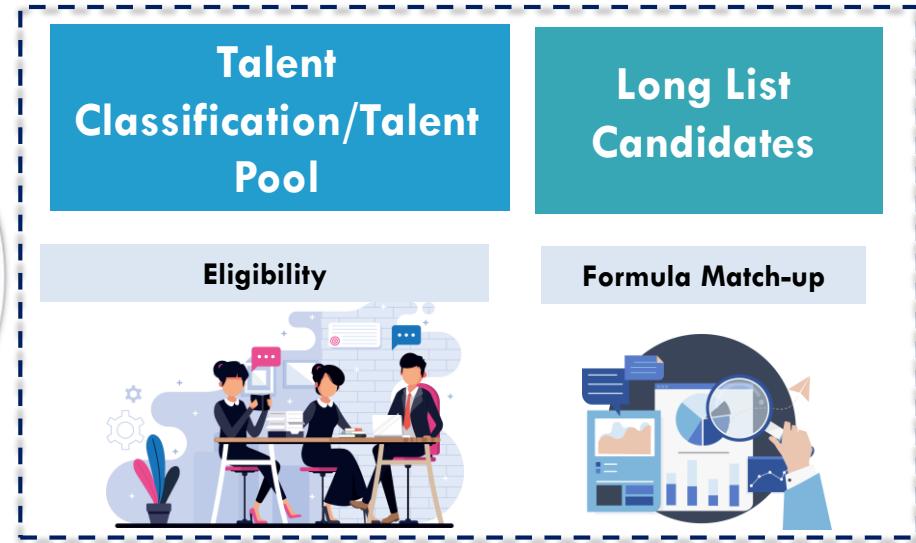
B. How to measure the competencies

1. Online/virtual Technical Competencies Assesment
2. Online/virtual Leadership Competencies Assesment Center



Career Channel Creation & Millennials

I-Am Talent Succession Planning & Career Aspiration



Internal Job Posting for Strategic Positions



Open for all
employee levels

Transparent
Processes

Promotion &
Consequences

How To Develop Millennials in Pertamina?

Pertamina Talent Development Strategy

Talent Management System Development



i-am Talent Succession Planning



i-am Talent Internal Job Posting



Talent Development Programs



- Early Professional Development Programs
- Basic Managerial Programs
- Technical Certification
- Junior Inspector Master Class



Talent Pool



Mid Level Programs

- TDA Mid Level
- KMKP
- Section Head Academy
- B2B Academy
- Marine Academy
- Sales Academy
- HC Academy

Talent Acceleration Programs

Top Talent/
Higher Level



Catalyser Program

- Directorship Programs
- ALP
- GM Academy
- Mega Project Academy
- CFO Academy

Creating Millenial Leaders

Pertamina Board of Director & Senior Leaders are strongly committed in accelerating 480 leaders within 5 years with Catalyser Program



National Impact

Taking key positions in government & energy policy.



Strategic & Organizational Impact

- Taking key roles in international projects & in strategic functions.*
- Significant Promotion rate*

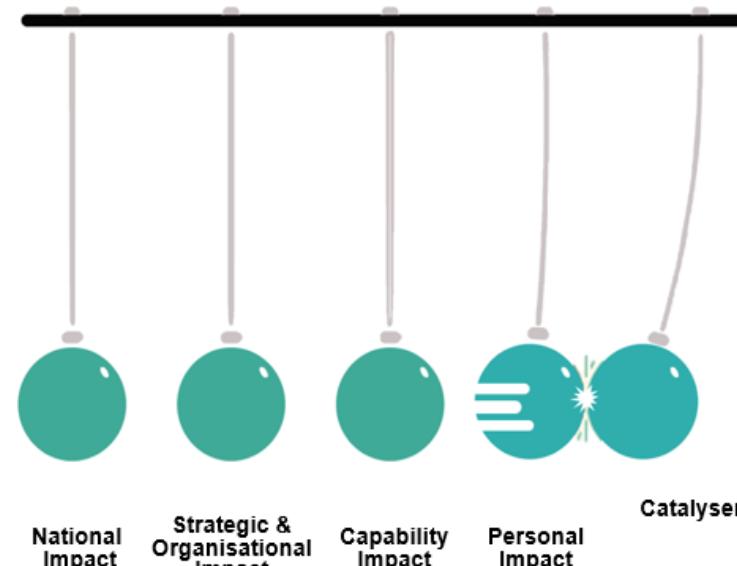


Capability Impact

Most of the leadership capabilities being improved along the program.

Personal Impact

Possible for mobility & promotion based on aspirations.



77 %

Has received promotions since beginning of Catalyser, 13 of them were promoted from Manager to VP

(Promotion levels VP and SVP)

66 %

Changed responsibilities, functions, business unit, geography since beginning of Catalyser.

(Organisational mobility)

8

Participants have been promoted to Director in Subholding/Subsidiary/Affiliation

(Promotion level Director)

" Strategic & Organizational Impact of Catalyser Program "

How to Create Millennials Friendly Work Cultures

DIGITAL CULTURE

1 Focus on a Few Critical Behaviour Changes

Agile, Data Driven, Innovative, Collaborative

2 Align With BUMN Values – AKHLAK

Kompeten & Adaptif



E-sport Competition



Mobile Learning

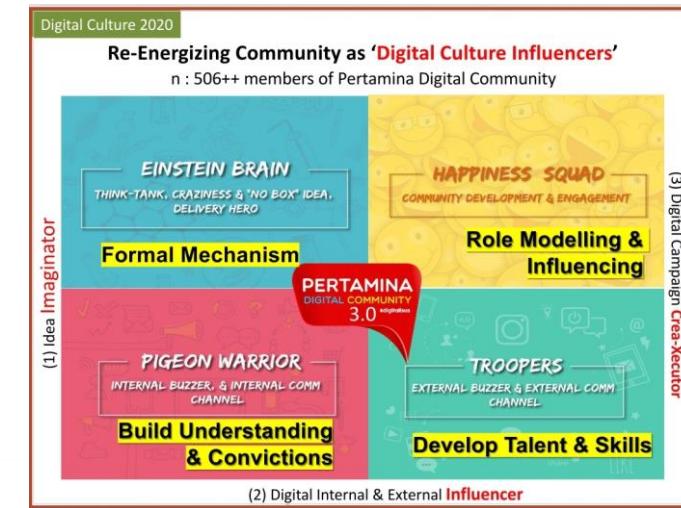
Digital Expo
Paper Competition
Hackathon



VIRTUAL COLABORATION TOOLS



DIGITAL COMMUNITY



Direksi Milenial di Anak Perusahaan Pertamina

Pertamina mengimplementasikan nilai Kolaborasi & Kompeten sebagai core values AKHLAK dalam bentuk memberikan kesempatan karier yang lebih luas kepada seluruh pekerja Pertamina yang memiliki passion dan kompetensi unggul



Yoki Firnandi
Direktur Optimisasi
Produk
PT Kilang Pertamina
Internasional

Usia
40 Tahun
Pendidikan Terakhir
S2 MBA Prasetya
Mulya



**Mars Ega
Legowo Putra**
Direktur Perencanaan
dan Pengembangan
Bisnis
PT Pertamina Patra
Niaga

Usia
41 Tahun
Pendidikan Terakhir
S1 Manajemen
Unpad



**Isabella
Hutahaean**
Direktur SDM &
Penunjang Bisnis
PT Pertamina Patra
Niaga

Usia
44 Tahun
Pendidikan Terakhir
S1 Tenik Kimia ITB



Fitri Azwar
Direktur Keuangan
PT Pertamina
Training & Consulting

Usia
43 Tahun
Pendidikan Terakhir
S2 MM UI



Iin Febrian
Direktur Utama
PT Pertamina Retail

Usia
42 Tahun
Pendidikan Terakhir
S2 MM Prasetya
Mulya



**Wisnu Medan
Santoso**
Direktur Perencanaan
Bisnis
PT Pertamina
International
Shipping

Usia
41 Tahun
Pendidikan Terakhir
S2-Applied Earth
Sciences and
Petroleum Colorado
School of Mines/USA



**Arief Kurnia
Risdianto**
Direktur Operasi
PT Pertamina
International
Shipping

Usia
41 Tahun
Pendidikan Terakhir
S2 Teknologi
Kelautan - World
Maritime University



**I Putu Puja
Astawa**
Direktur Armada
PT Pertamina
International
Shipping

Usia
43 Tahun
Pendidikan Terakhir
S1 Teknik
Perkapalan – ITS
Surabaya

AKHLAK Supported by PERWIRA Millennial Programs



- Leader's Up Close & Personal Event
- Duta Pertamina

- New Internal Job Posting
- Continuous Improvement Programs

- Bazaar Energi Negeri
- Employee Journalism

- Nationalism Video Challenge
- PERWIRA digital Channel

- Virtual Digital Expo
- Virtual Employee Walkthrough

- Pertamina Energi Negeri
- eSport Competition



Empowered Well Being and Work Life Fit



Work Life Balance

Fresh Fit and Fun Friday
Ayoo ikuti...
Fresh Fit and Fun Friday Senam Yoga melalui Video.
ikuti pula Tips Dokter Ahli Gizi dengan tema "Cegah Stress dan Penuaan dalam masa pandemi dengan asupan nutrisi yang tepat" pada tautan yang sama.
KLIK DISINI
#BangkitkanSemangatBaru
DIREKTORAT SDM
www.pertamina.com

BAPORS PHE 2020
Detail informasi kegiatan dan *Person In Charge* dari masing -masing cabang BAPORS, silahkan klik LINK berikut ini
<http://phekpsp13.pertamina.com/corporate/sdm/bapors/Pages/Default.aspx>
Ask "HR&GA" CONTACT CENTER, Phone ext. 8888 or e-mail : phe.contact.hrga@pertamina.com

Badan Pembinaan Olah Raga dan Seni
BAPORS

www.pertamina.com

Social Involvement

VOLUNTARY DAYS 2019
APA SIH
Pertamina Energi Negeri 4

Hai sobat! Pertamina Energi Negeri (PEN) sudah memasuki tahun ke-4 lho. Apa sih PEN itu? PEN adalah kegiatan kerelawanannya anak-anak sekolah dasar. Selain mengajar dan mengenalkan Pertamina, para relawan juga membagikan inspirasi dan semangat untuk anak-anak. PEN merupakan wujud kontribusi Pertamina dalam mewujudkan pendidikan Indonesia. Acara luar biasa ini merupakan salah satu rangkaian acara Voluntary Days 2019 yang dilaksanakan di 18 kota dengan jumlah partisipasi sekolah sebanyak 50 sekolah.

Keren kan?

#PertaminaVoluntaryDays
#PertaminaEnergiNegeri4
#PertaminaEmployeeJournalism
#EnergiUntukMaju

GRAFIK PENINGKATAN REALAWAN YANG BERGABUNG

Kategori	Tahun 2018	Tahun 2019
2 Relawan Pengajar	563	537
0 Relawan Panitia	201	324
1 Relawan	1	1
6 Total Relawan	764	861
2 Relawan Pengajar	687	883
0 Relawan Panitia	233	272
1 Relawan	1	1
7 Total Relawan	920	1155

Terdapat kenaikan minat pekerja untuk menjadi relawan pengajar pada PEN 4 2019, yaitu sebesar 64,43% (360 orang) di bandingkan dengan pada pelaksanaan PEN tahun 2018

PERTAMINA ENERGI NEGERI

Terima Kasih



Ketulusan untuk Melayani



Transformasi PLN & Harapan pada Milenial

Jakarta, 12 Agustus 2020

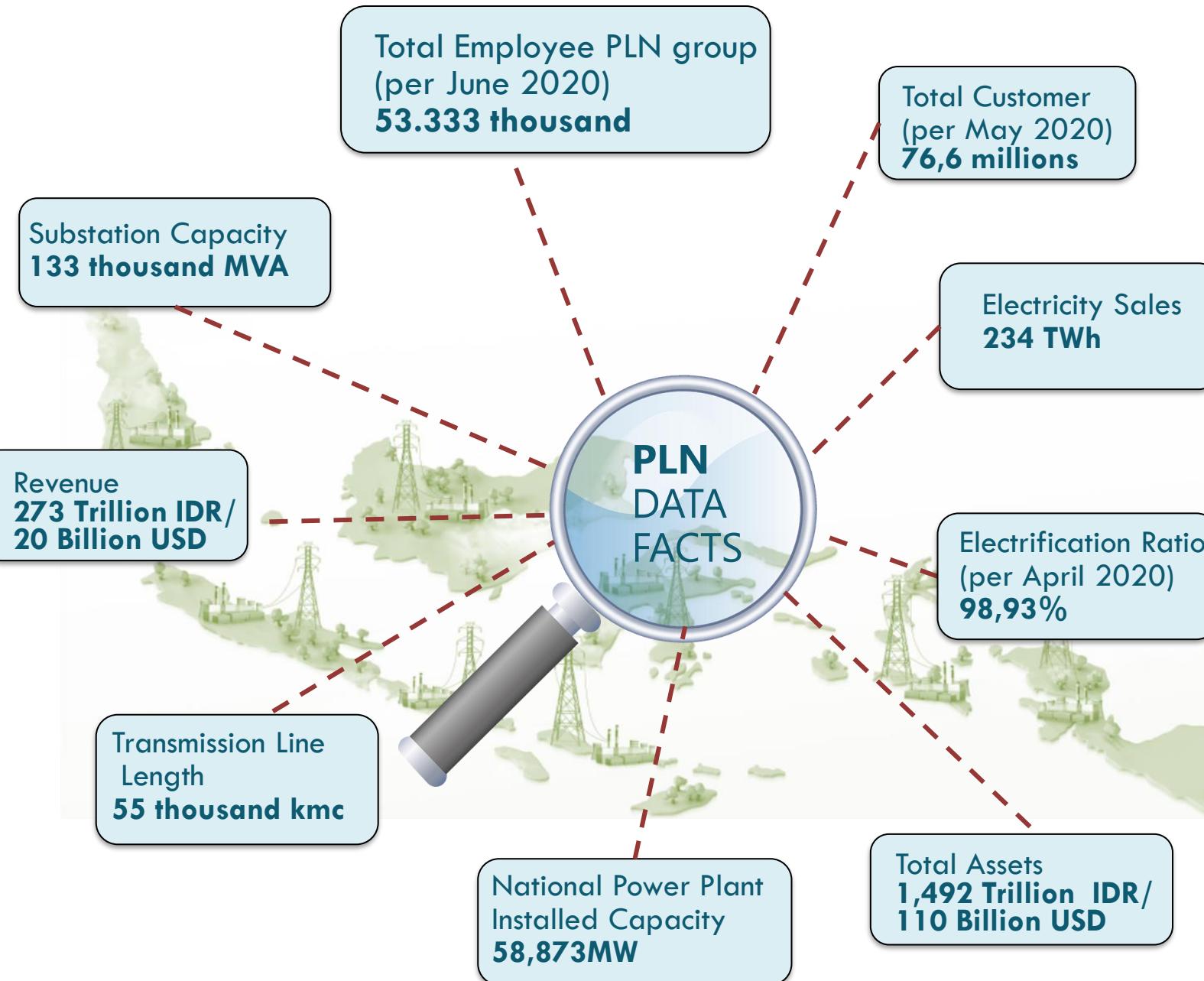
Presented by:

Zulkifli Zaini

Direktur Utama PT PLN (Persero)



PLN PROFILE



#TransformasiPLN

Electricity Champion of **South-East Asia**
and **#1 customer choice**
for energy solutions



GREEN
Leading Indonesia's energy transition
through rapid and efficient scale-up of renewables

LEAN
Lean, reliable and least cost provider
of electricity to home, business and industries



INNOVATIVE
Stimulating growth
through innovative business models and services

CUSTOMER FOCUSED
Delighting customers
through world class quality and services

“Perubahan itu mutlak!
Jika kita tidak berubah, maka
pelanggan akan meninggalkan
kita”

PLN memiliki visi untuk menjadi
perusahaan listrik terbaik
di Asia Tenggara dan menjadi
pilihan utama para
pelanggan

PLN akan bertransformasi dari
supply driven organization
menjadi ***demand driven***
organization

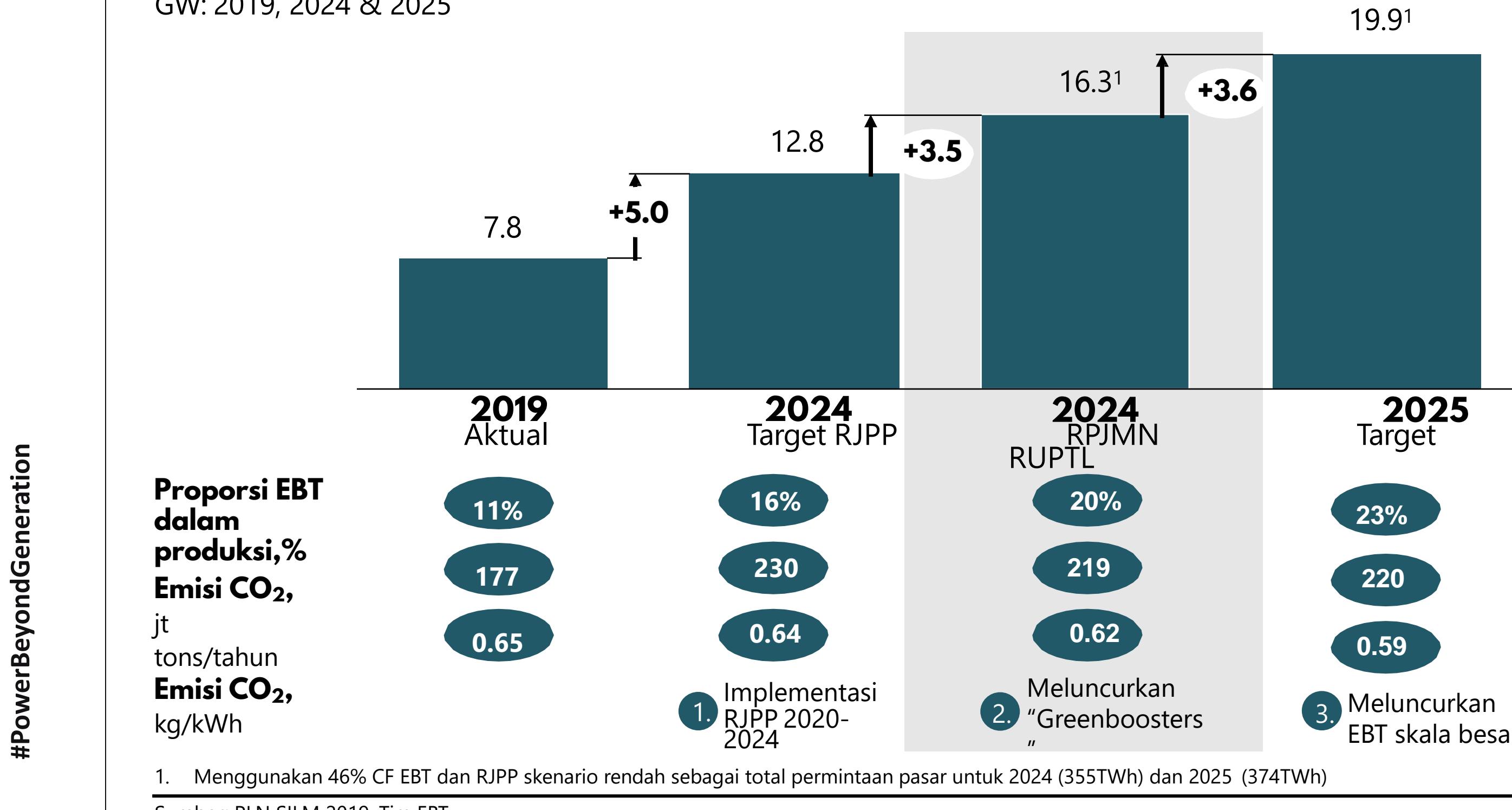
PLN memiliki kekuatan utama yang dapat dimanfaatkan dan tantangan yang perlu diatasi



Keamanan dan kualitas pasokan	<ul style="list-style-type: none"> ⊕ Demand listrik yang meningkat dan sumber daya alam yang cukup besar untuk dimanfaatkan ⊕ Basis pelanggan terbesar di Indonesia, dengan jumlah pelanggan sebanyak 76,6 juta 	<ul style="list-style-type: none"> ⊖ Kesenjangan dalam kinerja sistem (kualitas pasokan, biaya, dll) dan geografi yang kompleks ⊖ Pengetahuan terbatas tentang pelanggan dan pemahaman tentang prioritas mereka
Keberlanjutan finansial	<ul style="list-style-type: none"> ⊕ Basis aset besar – salah satu perusahaan terbesar di dunia dan perusahaan terbesar di Asia Tenggara ⊕ Dukungan dari para pemangku kepentingan, karena peran PSO PLN 	<ul style="list-style-type: none"> ⊖ Kesehatan keuangan yang lemah dan kurangnya kontrol biaya, akuntabilitas, serta budaya risiko ⊖ Peran yang tidak jelas antara pusat dan wilayah, tata kelola yang kompleks PLN Group (mis: 56 unit Iduk PLN, 11 anak perusahaan dan 35 cucu perusahaan)
Peran dan organisasi PLN	<ul style="list-style-type: none"> ⊕ Peran strategis di Indonesia, sebagai satu-satunya pengelola ketenagalistrikan 	<ul style="list-style-type: none"> ⊖ Struktur tarif yang menyebabkan peningkatan subsidi dan kompensasi
SDM dan talenta	<ul style="list-style-type: none"> ⊕ Tenaga kerja yang bersemangat dan kompeten secara teknis, dengan budaya melayani pelanggan ⊕ Tenaga kerja muda dengan 70% milenial – sangat terlatih pada keterampilan baru, khususnya digital 	<ul style="list-style-type: none"> ⊖ Kesenjangan produktivitas SDM dan kurangnya digitalisasi proses bisnis sehingga berdampak pada efisiensi dan eksekusi ⊖ Staf tidak memiliki kompetensi keuangan dan bisnis serta kesiapan untuk 3D (Desentralisasi, Dekarbonisasi, Digitalisasi) ⊖ Tenaga kerja berpengalaman mulai pensiun sehingga mengakibatkan erosi keahlian teknis
	<h2>#KEKUATAN</h2>	
	<h2>#TANTANGAN</h2>	

Target EBT dalam RJPP PLN sebesar **12,8 GW** pada **Tahun 2024**, **VS Mandat RJPMN 16,3 GW**

Kapasitas terpasang EBT
GW: 2019, 2024 & 2025



Target EBT PLN saat ini (dalam skenario rendah RJPP 2020–2024) adalah **12,8 GW pada 2024 (+5,0GW vs saat ini)**

Untuk melaksanakan mandat nasional **membutuhkan inisiatif untuk penambahan 3,5 GW pada tahun 2024 (target RPJMN) dan 7,1 GW** pada tahun 2025 (target RUPTL)

PLN telah mengidentifikasi **tiga rangkaian inisiatif** untuk mencapai aspirasi EBT: Implementasi RJPP, meluncurkan *Green Booster* dan membangun EBT skala besar

#GreenBoosterProgram

Process



“Keunggulan dari inovasi CoFiring ini adalah pengurangan penggunaan fossil fuel power plant menjadi green power plant untuk mendukung target bauran EBT 23% di tahun 2025 tanpa diperlukan investasi pembangkit EBT baru yang memerlukan CAPEX cukup besar.”



CoFiring Biomassa

Dediselisasi



“Program dediselisasi dilaksanakan PLN dalam rangka pengalihan penggunaan bahan bakar minyak ke sumber energi EBT. Sebagai salah satu komitmen PLN dalam mendorong peningkatan EBT menjadi 23% di tahun 2025 dapat tercapai.”

“Lahan-lahan bekas tambang yang tidak terpakai masih dapat dimanfaatkan sebagai lokasi pengembangan PLTS.”

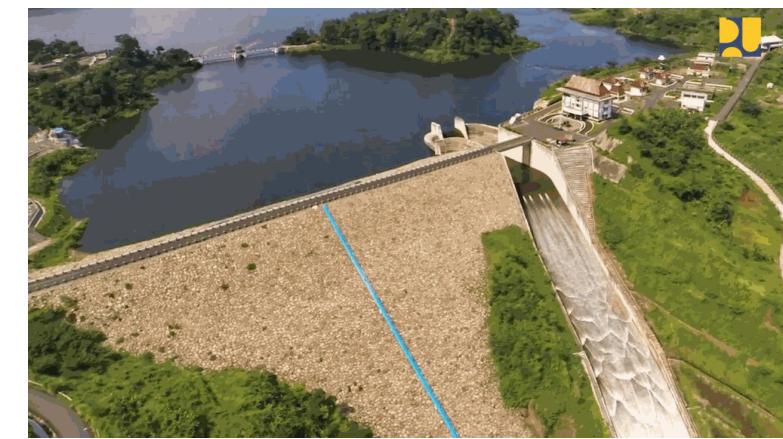


PLTS lahan ex-tambang



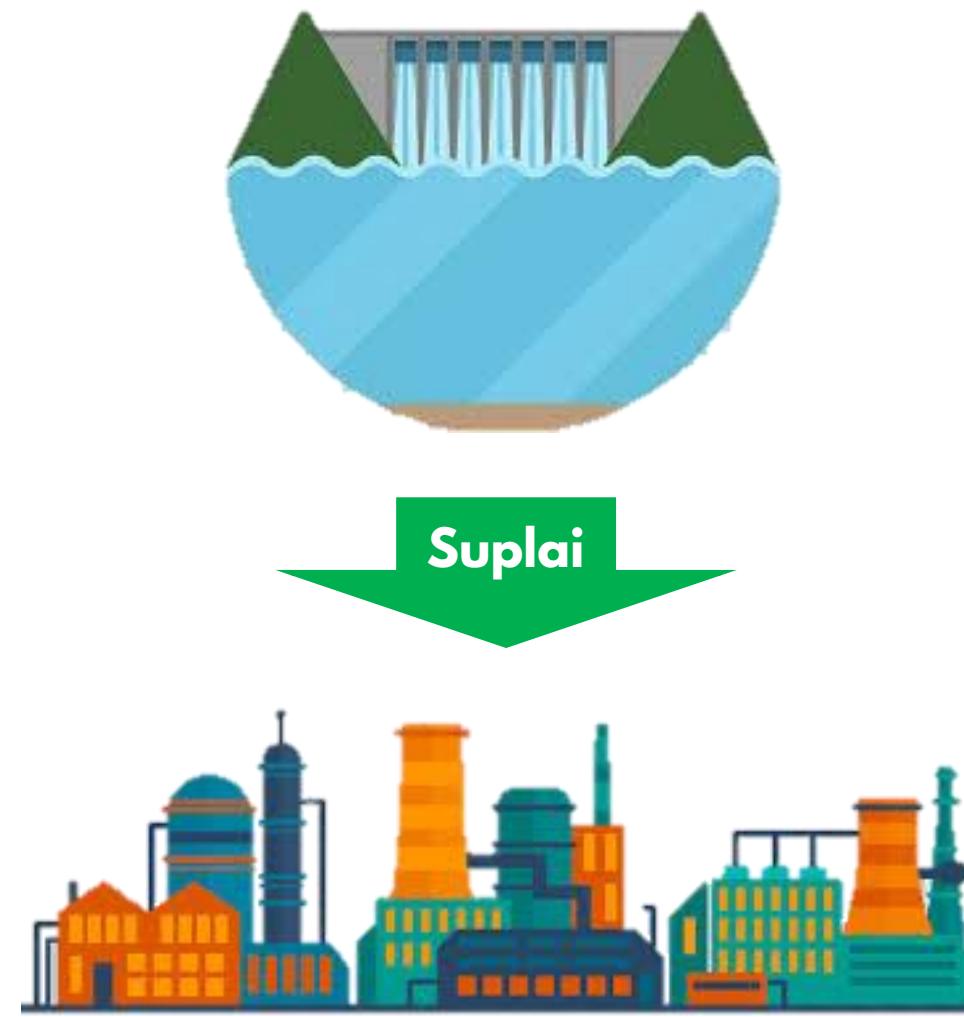
PLN

Pemanfaatan Waduk Multiguna



“Salah satu kerjasama yang dirintis dengan PUPR melalui pemanfaatan waduk/bendungan yang ada dan bersifat multiguna selain sebagai irigasi dapat dimanfaatkan untuk pembangkit listrik.”

#LargeScaleProgram



“PLN mendukung peluang investasi di Indonesia dengan **menyiapkan sumber energi listrik dari pembangkit EBT untuk industri dengan skema *Renewable Energy Based Industry Development (REBID)*.**”

PLTA - REBID

PLTS Skala Besar



“**PLN** bersama anak perusahaannya, yaitu PT PJB, mengawali **pengembangan PLTS Apung terbesar di Asia Tenggara dan beberapa PLTS skala besar lainnya.**”



“**Potensi panas bumi di Indonesia merupakan salah satu yang terbesar di dunia.**”

PLTP

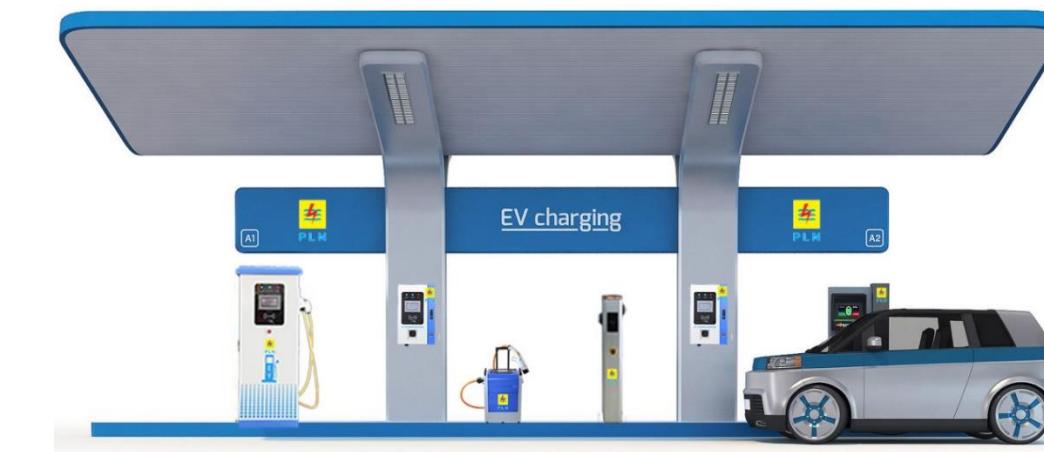
#PLNCleanEnergy



“SPKLU merupakan bagian dari implementasi kelengkapan infrastruktur bagi kendaraan bermotor listrik berbasis baterai, sesuai dengan Peraturan Presiden No. 55 Tahun 2019.”



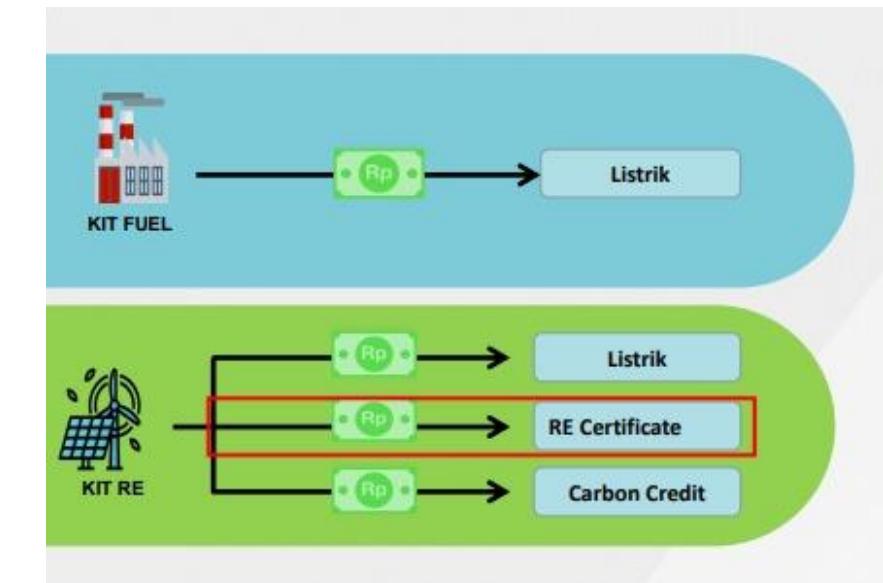
SPKLU (Stasiun Pengisian Kendaraan Listrik Umum)



“Di akhir Oktober 2019, PLN telah meresmikan Stasiun Pengisian Kendaraan Listrik Umum (SPKLU) secara bersamaan di 4 kota yaitu Tangerang, Bali Selatan, Jakarta, dan Bandung.”



“PLN berkomitmen menyediakan sejumlah SPKLU, yang disediakan secara mandiri oleh PLN, ataupun melalui kerja sama dengan pihak swasta.”



“Produk layanan yang dihadirkan PLN bagi Pelanggan/Calon Pelanggan yang menginginkan penggunaan *renewable energy* melalui kepemilikan REC sebagai bagian dalam komitmennya turut serta dalam menjaga pelestarian lingkungan”



REC (Renewable Energy Certificate) Services

#MillenialsExperience in #PLNTransformation



Technological



The 3 Elements of Employee Experience



Physical Environment

Culture



Environment



20 Transformation Officer Agents*

20 Transformation Officer Communicators*

*) Selected and Qualified Millennials in PLN

#MillennialsKnowledgePlatform

#PowerBeyondGeneration

Knowledge Sharing

PLNers : Panggilan untuk para Pegawai PLN Group

Electrizens : Panggilan untuk Masyarakat Indonesia yang menjadi Pelanggan PLN

Learning
Expanded

PLNers &
for
Electrizens

#ACHIEVEMENTMILLENIAL

JUARA 1 TECHNOLOGY BREAKTHROUGH BUMN MILLENIAL SUMMIT 2020

Karya millennial PLN unggul dalam bersaing dengan **156 BUMN** lainnya se-Indonesia

Avator: The Future Calibrator

TOP #10 Kategori Breakthrough Technology

- | | |
|---|---|
| #01  PLN | #06  TWC
<small>PT TAMAN WISATA CANDI
BUDAYA, PARIWISATA, DAN KULTUR BANGSA</small> |
| #02  Telkom Indonesia | #07  RNI |
| #03  adhi | #08  Perkebunan Nusantara |
| #04  pindad | #09  PELINDO III
<small>Beyond Port of Indonesia</small> |
| #05  Djarum | #10  PT TAMAN WISATA CANDI
<small>BUDAYA, PARIWISATA, DAN KULTUR BANGSA</small> |

Total submisi Technology Breakthrough
sebanyak 4.094 inovasi

“Hasil tidak mengkhianati usaha”





#Pembangkitan

- Boiler / Heat Recovery Steam Generator (HRSG)
- Turbin uap / gas / air
- Distributed Control System (DCS)
- Instrumen, control & proteksi
- Generator
- Kimia
- Metalurgi
- Proteksi Pembangkit
- Vibration
- Tribologi
- Welding
- Electrical Pembangkit
- Coal Handling
- Pompa Kompresor
- Piping valve
- Hidrolik pneumatik
- Efisiensi Pembangkitan

#Niaga

- Tata Usaha Langganan
- Pemasaran
- Riset Pasar dan Business Development
- Intelejen Pemasaran
- Marketing Communication
- Digital Marketing

#Operasi Sistem

- Scada / SAS
- Defence Scheme (Remedial Action Scheme)
- Telekomunikasi
- Power System Reliability & Stability
- Manajemen Energi
- Online Power System Analysis
- Transaksi Energi Listrik
- Master Station
- Power System Operation
- System Metering

#Penyaluran

- Trafo tenaga
- Peralatan utama transmisi
- Transmission line
- Proteksi
- SCADA / SAS
- Defense scheme
- PDKB transmisi
- Kabel TT / TET
- GIS
- Konstruksi Peralatan Sistem Transmisi
- Telekomunikasi
- Power System Analysis
- Simulasi Produksi Pembangkit

#Penunjang

- K3
- Lingkungan
- Pengadaan
- Supply Chain Management
- Manajemen Dispute
- Komunikasi dan Negosiasi
- Stakeholder Management
- Perizinan
- Pajak
- Akuntansi Manajemen
- Manajemen SDM

#Distribusi

- Proteksi & Stabilitas Sistem
- Power Quality
- Meter Transaksi
- Distribution Automation System (DAS)
- PDKB Distribusi
- Kabel TM
- Kubikel
- Konstruksi Peralatan Distribusi

#Konstruksi

- Manajemen Kontrak
- Manajemen Konstruksi
- Manajemen Proyek



**Identifikasi
Kepakaran**

Kepakaran baru: Teknologi

1. Forecasting
2. Power Quality
3. Inverter technology
4. Storage technology
5. System integrator
6. Solar generation
7. Wind generation
8. Ocean Generation
9. Data Science
10. Apps. Developer
11. Electric Mobility
12. Artificial Intelligence
13. Cyber Security
14. Microgrid/hybrid expert
15. FACTS
16. Flexible Grid & Grid Defense system
17. Resilient Grid
18. Industry 4.0
19. Smart Energy
20. Blockchain

Kepakaran Baru: Kognitif

1. New Service development
2. Rooftop PV development program
3. Communal Utilities development
4. Start up incubator
5. Mobile communication
6. Gender
7. Climate & Environment
8. Rural development
9. Demand Response
10. Teamwork & peer to peer team development
11. Etc.

Belajar!

THANK YOU

“ Power Beyond Generations”





ZULKIFLI ZAINI

President Director
PT PLN (Persero)

Education

1992-1994

Washington
University in St.Louis–
Olin Business School
*Master of Business
Administration*
Institut Teknologi
Bandung
Civil Engineering

1975-1980

Experience

Dec 2019-Present

PT PLN (Persero)
President of BOD
Indonesian Bankers
Association (IBI)
Dewan Pengawas
Indonesian Bankers
Association (IBI)
Chairman

Jun 2019-Present

April 2011-Present

July 2013-April 2015 PT PLN (Persero)
Commissioner

July 2010-April 2013 Bank Mandiri
*Former President
and CEO*

“EXECUTION MATTERS!”