



IKATAN AHLI FASILITAS PRODUKSI  
MINYAK DAN GAS BUMI INDONESIA



**29-31 AGUSTUS 2023**  
**YOGYAKARTA**

# Long Term Energy Supply vs Demand - Human Capital Perspectives

Ronald Gunawan



## SPEAKER PROFILE



Name : Ronald Gunawan

Company/Institution : PT Medco Energi Internasional Tbk

Education : Bachelor of Science, Petroleum Engineering, ITB  
Masters of Science, Petroleum Engineering, Texas A&M University

Professional Career :

1988-1989, Halliburton Indonesia: Service Engineer Trainee

1989-2006, Vico Indonesia: Petroleum Eng, Subsurface Mgr, VP Assets, VP Resources Mgmt

2007-2012, Eni Australia Ltd, Eni E&P Milan: Project Ops Mgr, Operation Mgr, Asset Integrity Mgr

2012-2014, Hess Indonesia: President & General Manager

2014-2015, Premier Oil Indonesia: VP Operations & Development

2015 - now, PT Medco Energi Internasional Tbk: Director & Chief Operating Officer,  
President Director PT Medco E&P Indonesia

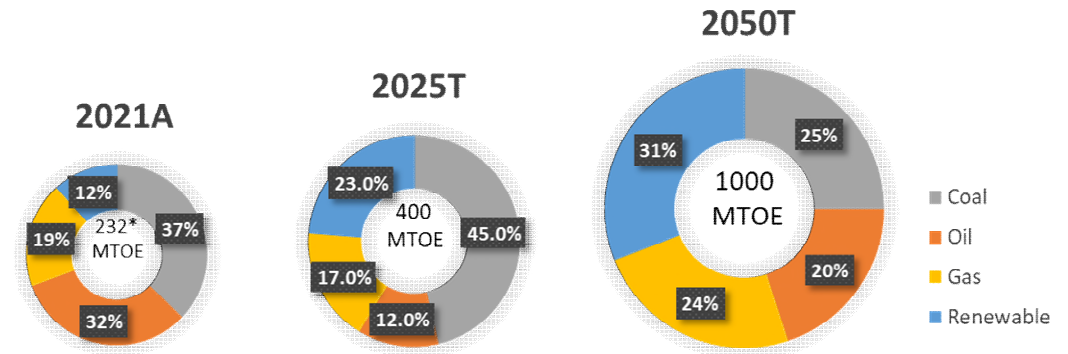
# Future Oil and Gas and Energy Mix



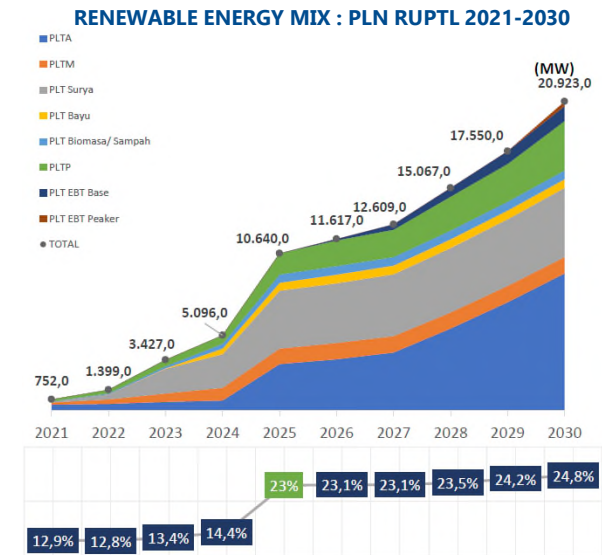
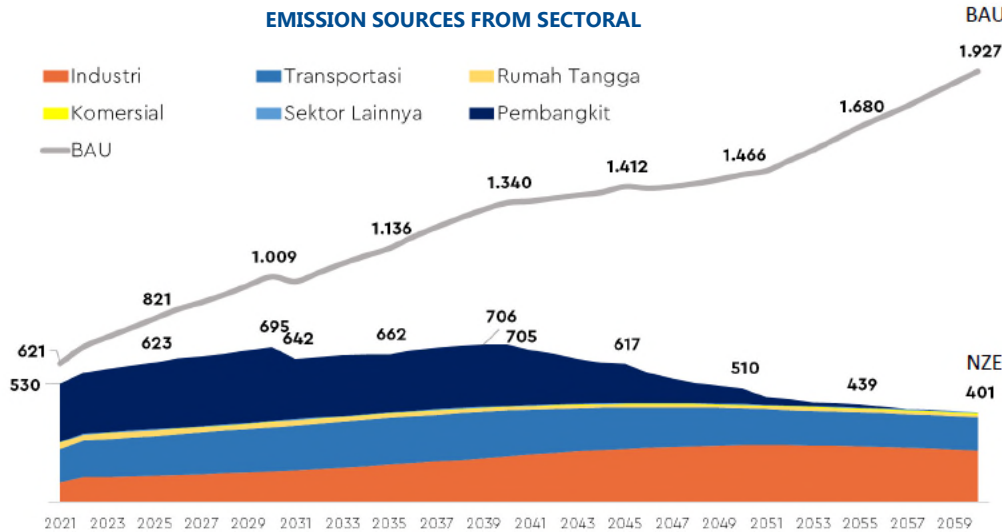
IKATAN AHLI FASILITAS PRODUKSI MINYAK DAN GAS BUMI INDONESIA



- Decreasing portion from oil and gas, but Increasing amount of oil and gas energy supply
  - 2021 Actual (51.1%): 118 MTOE ~ 765 MMBOE
  - 2025 Target (29%): 116 MTOE
  - 2050 Target (44%): 440 MTOE ~ **2850 MMBOE**



- Government Policies towards Net Zero Emission (NZE) roadmap by 2060



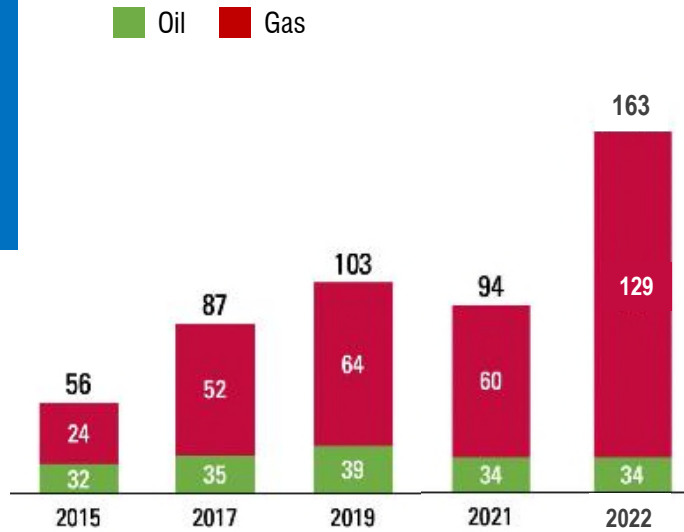
# Medco Energi - Operation

## Oil and Gas Production (MBOEPD)

Total Production  
**163**  
mboepd

**79%**  
Gas

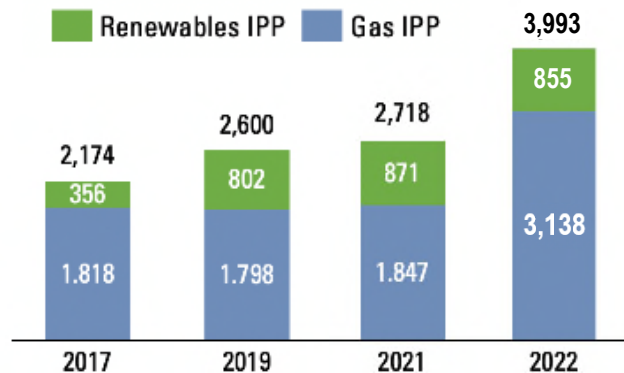
**21%**  
Oil



## Power Generation

Total Sales  
**3,993**  
GWh

**21%**  
Renewables



IKATAN AHLI FASILITAS PRODUKSI  
MINYAK DAN GAS BUMI INDONESIA



Efficient Operator of  
Mature Fields



Experienced in  
Drilling & Operating  
HPHT Wells



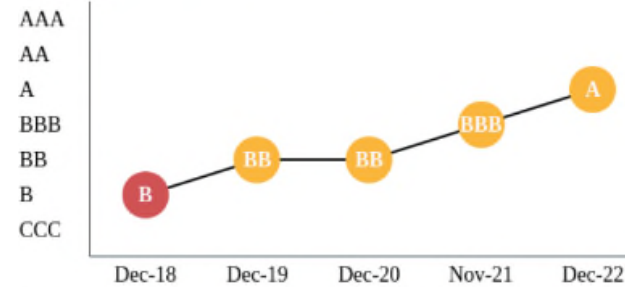
Experienced Operator  
of Complex  
Turbomachinery



Cost Effective  
Operator

Supported by Excellent Organizational Capability of  
300 Petrotechnicals (GGRE & Drilling) & 200 Surface Facility Engineers

## ESG Rating history



**MSCI**  
ESG RATINGS

CCC B BB BBB **A** AA AAA

As of 2022, PT Medco Energi Internasional Tbk received an MSCI ESG Rating of A.

MSCI DISCLAIMER STATEMENT REFER TO CLOSING SLIDE

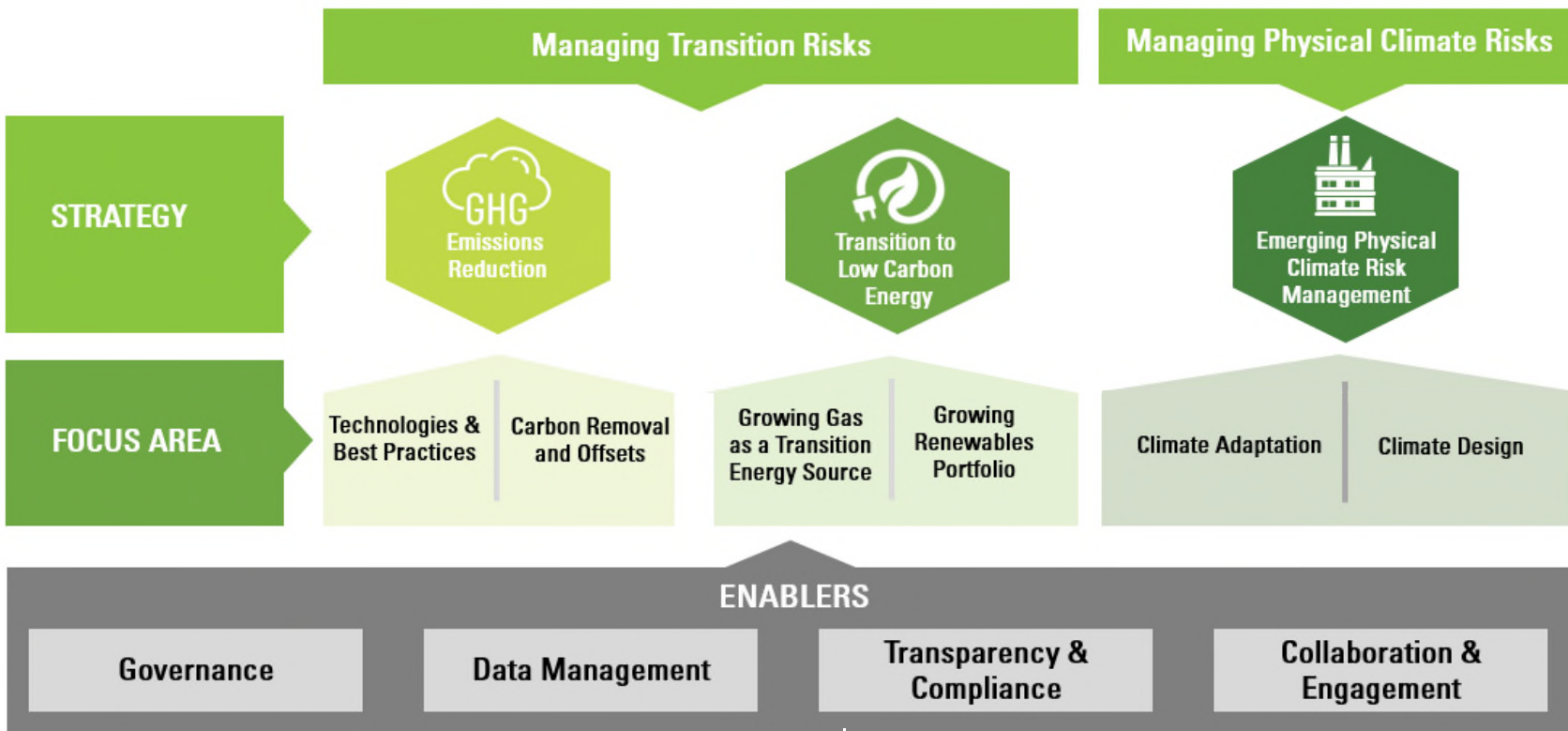
ESG Rating history shows five most recent rating actions

# Medco Climate Change Strategy



## CLIMATE ASPIRATION

Achieve Net Zero for Scope 1 and Scope 2 Emissions by 2050 and Net Zero for Scope 3 Emissions by 2060



## COMMITMENT TO NET ZERO

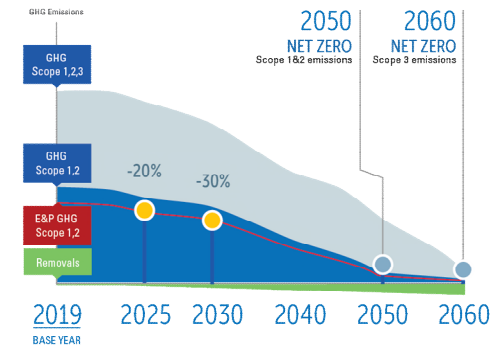
# 2050

NET ZERO FOR SCOPE 1 AND SCOPE 2 EMISSIONS

# 2060

NET ZERO FOR SCOPE 3 EMISSIONS

### CLIMATE ASPIRATION



Paving the Ground for Net Zero and Roadmap in Energy Transition

### Our Projected Renewable Mix:

23% (2022)



26% (2025)



30% (2030)

# E&P Competencies Now and Then



## As-Is

*Current skills / roles*

*Focus: Increasing Asset Values,  
R to P, EOR, Exploration*

### Technical competencies:

- Exploration
- Production Operations
- Reservoir Management
- Development & Engineering
- Drilling & Wells

### Generic competencies:

- Business Development & Commercial
- Procurement, Supply Chain & Logistic
- Finance & Tax
- HR, Legal & Communication
- HSE
- Information Technology
- Asset Management
- Project Management

## Add-On

*What does each industry need?*

*Focus: Energy Transition  
initiatives*

**Emission Reduction  
(CCS / CCUS)**

### Low Carbon Energy

- Wind Energy
- Hydrogen
- Others

(Solar PV, BESS, Methanol,  
DME, Ammonia)

Gap analysis

## How to Close the Gap

Upskilling initiatives to close competency gaps per subject area by:

- On the job training
- Coaching and mentoring
- Training
- Education

Strong Leadership Competencies

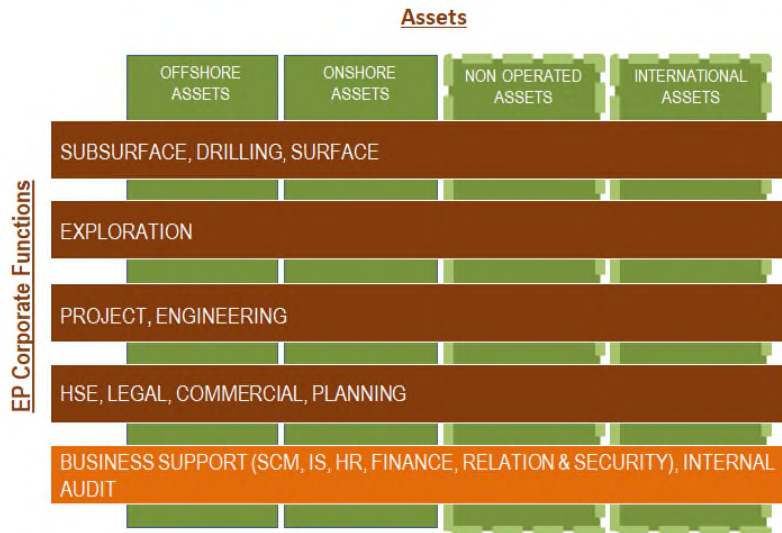
# People Driven Business Growth



## Agile Organization

### Asset-Based With Functional Excellence

Organization that work, solid, effective and efficient



## Enhanced Way of Working



### Leadership Behaviors



### Values





THANK YOU

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Jl. Sultan Iskandar Muda, Jakarta 12240