



**ENTREPRENEURSHIP
ENERGY**

“

Semua profesi yang baik adalah **mulia**. Berusahalah menjadi yang **terbaik** di profesi tersebut.

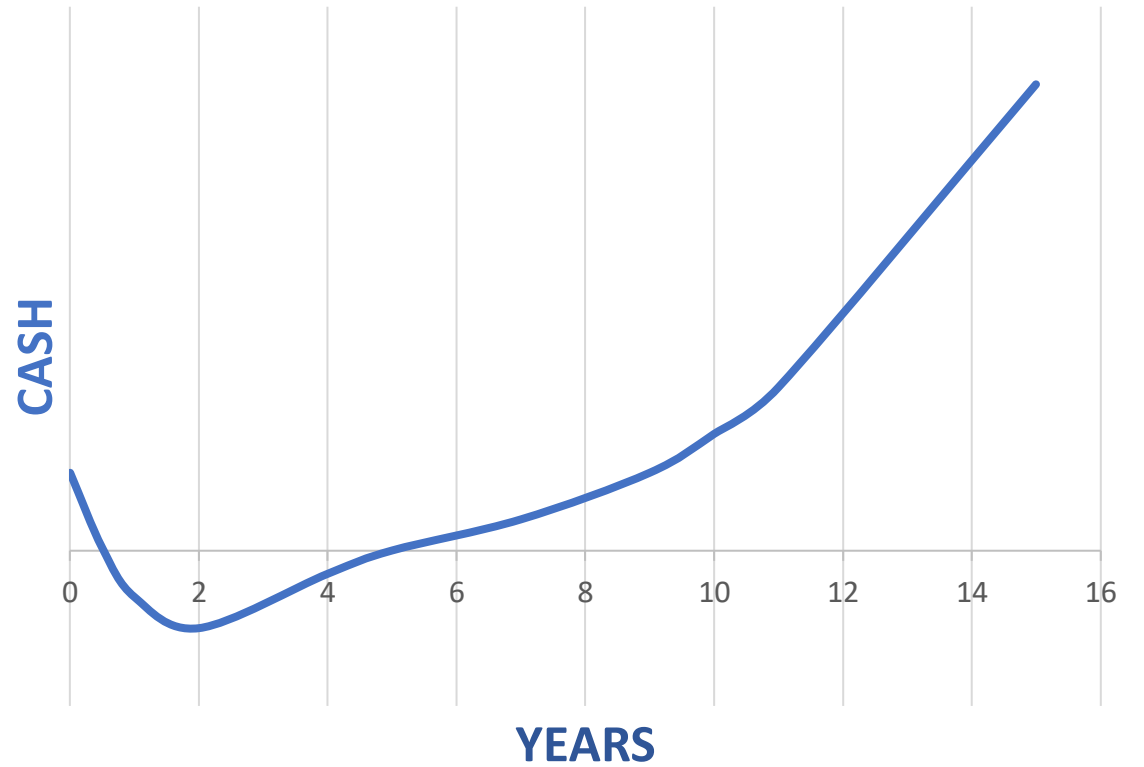
ENTREPRENEURSHIP KEYS

1. FRIENDSHIP AND *SILATURAHMI*
2. IF YOU LIKE TRADING, YOU
ACTUALLY HAS THE POTENTIALS
3. FIND OPTIONS, SELECT, DEVELOP
PLAN, SET TARGETS, AND EXECUTE
4. FOCUS AND PERSISTENT

“

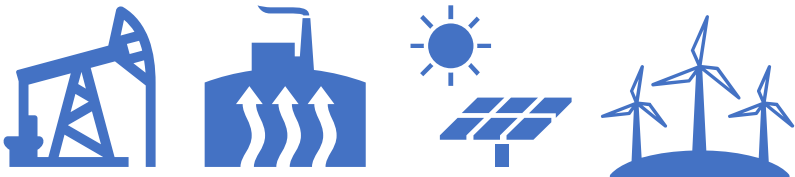
Hope for the best and prepare for the worst

ENTREPRENEURSHIP FACT



ENERGY KEYS

1. Regulated business, then understand the whole business flow
2. Many disciplines involved: engineering, commercial, legal, administration, etc.
3. Most of are B2B, retail are small.
4. Finance sources





PT Selaras Daya Utama (SEDAYU)

Indonesia's Leading Solar Energy Company

Company Profile

PT Selaras Daya Utama

Our Milestones

2009



RE

2010



RE
EPC

2011



PLTS
PLN

2012



ISO 9001

2013



PLTS
ESDM

2014



OHSAS
18001

2017



Asian
Power
Award

2019



Energy
Globe
Award



PT Selaras Daya Utama (SEDAYU)

Indonesia's Leading Solar Energy Company



10+
years

150+
projects

100%
success rate

1.

Why SEDAYU?

Our Competitive Advantages

SEDAYU is Supported by World's Leading Companies in Solar Power Industry



JA SOLAR



REC

Panasonic



SERAPHIM
SOLAR-SYSTEM



CanadianSolar



ABB

Fronius

zeversolar

SUNGROW



HOPPECKE



TESLA

BSB®

Narada



all about batteries



JJ-LAPP CABLE

LEONI



Multi-Contact



Solar-Log™
by Solare Datensysteme GmbH



PART OF SEAWARD



smappee

SEDAYU has a Proven Track Record

100% Success Rate for More Than 150 Projects



SEDAYU is the Solar EPC of Choice

chosen by World's Leading Solar Power Developers



Total Solar is the world's largest Solar Power Developer; and SEDAYU is Total Solar's EPC for Indonesia, including its first project, the 750 kWp Chandra Asri Petrochemical (CAP) project



This Japan's leading companies owns Indonesia's largest private IPP SEDAYU has successfully commissioned all of their 3 (three) Solar Power projects, including the 1-MW Paiton Energy project



SolarNation is Indonesia's leading Rooftop Solar Power Developer SEDAYU has been chosen as the EPC for its projects

SEDAYU receives International Awards

Awarded by International Institutions & Government



Supported by the United Nations, Energy Globe Award is one of the most prestigious Environment & Energy Awards. SEDAYU is the winner of Energy Globe National Award 2019.



Asian Power Awards recognizes the innovative initiatives in The Power sector including the Renewable Energy sector. SEDAYU is the winner of Asian Power Awards 2017.



Switzerland.

SEDAYU also received numerous Awards for its contributions in the Renewable Energy development in Indonesia, including the Awards from the governments of Denmark, Switzerland and the Netherlands.



Kingdom of the Netherlands



From left to right:

Energy Globe Award 2019
The Award Winning ceremony by the Austrian Ambassador, H.E. Helene Steinhäusl and the AdvantageAustria team in Jakarta on behalf of the Energy Globe Foundation

Asian Power Awards 2017
The Award Winning ceremony by the Asian Power Awards in Bangkok



Renewable Energy Award 2016 from H.E. Børge Brende, Norwegian Minister of Foreign Affairs on behalf of the Norwegian government

Renewable Energy Technology Award 2015 from the Vice President of Switzerland, H.E. Doris Leuthard.

2.

SEDAYU Solar Power Solutions

On-grid, Off-grid, Hybrid Solar Power solutions

ONGRID SOLAR

On-grid Solar Power System / Pembangkit Listrik Tenaga Surya (PLTS) On-grid is the most common Solar system and it is connected to the power grid.

When the energy produced by Solar is more than the needed, the system send excess electricity back to the grid.

When the energy produced by Solar is less than the needed, the power grid supplement or replace the Solar system



On-grid Solar Power Solution

Connected to
the power grid

Net-metering
solution is
available

Ideal for
buildings with
reliable power
supply from
the grid

OFFGRID SOLAR

Off-grid Solar Power System / Pembangkit Listrik Tenaga Surya (PLTS) Off-grid is the most common system installed in remote & isolated areas with no electricity grid.

Off-grid Solar usually requires energy storage, i.e. battery bank, to store the energy harvested during day-time for the evening usage. Electrical usage must be monitored and kept below the maximum output from the Solar system.



Off-grid Solar Power Solution

Not connected
to the power
grid

Need Energy
Storage
(Battery) for
evening usage

Ideal for
remote &
isolated
locations



Zero Mass Water Source

Solar-powered
Clean Water
Solution from
the Air

Designed &
manufactured
in the USA

Ideal for
properties
with limited
access to
water

HYBRID SOLAR

Hybrid Solar / Pembangkit Listrik Tenaga Surya (PLTS) Hybrid is another common system installed in remote and isolated locations with no electricity grid.

Instead of relying only on energy storage, i.e. battery bank, Hybrid Solar combines the energy storage with a backup source of energy, such as Diesel Generator. This system is able to save the cost to procure the batteries, especially if there is existing source of energy can be used as a backup.



PLTS Off-grid 75 kWp Bumi Ratu, Lampung

Commissioned
by PT Selaras
Daya Utama
(SEDAYU) in
2016

3.

Project References

Some of SEDAYU's latest Off-grid, Hybrid and On-grid Solar projects



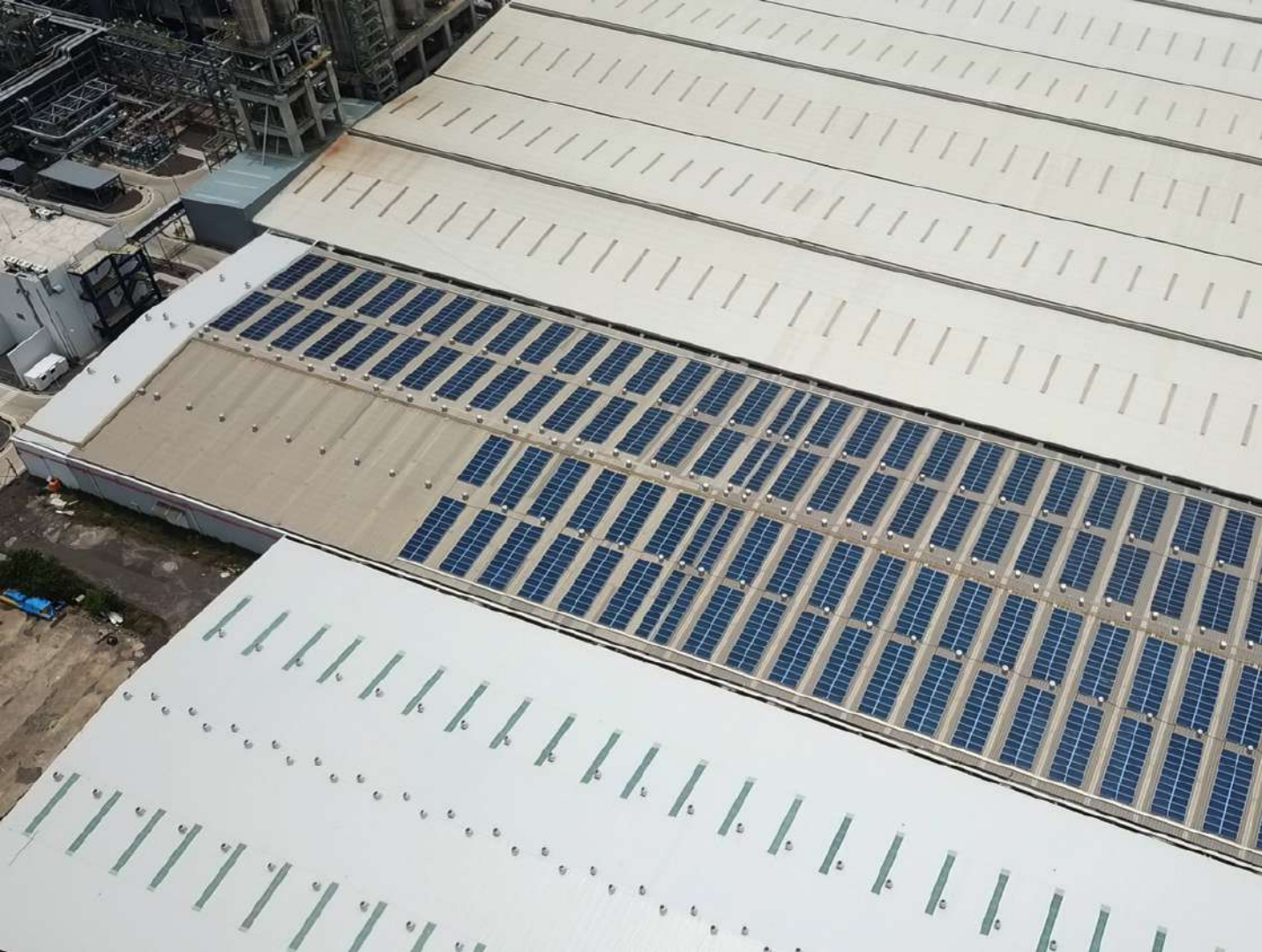
On-grid

1 MW

Paiton Energy

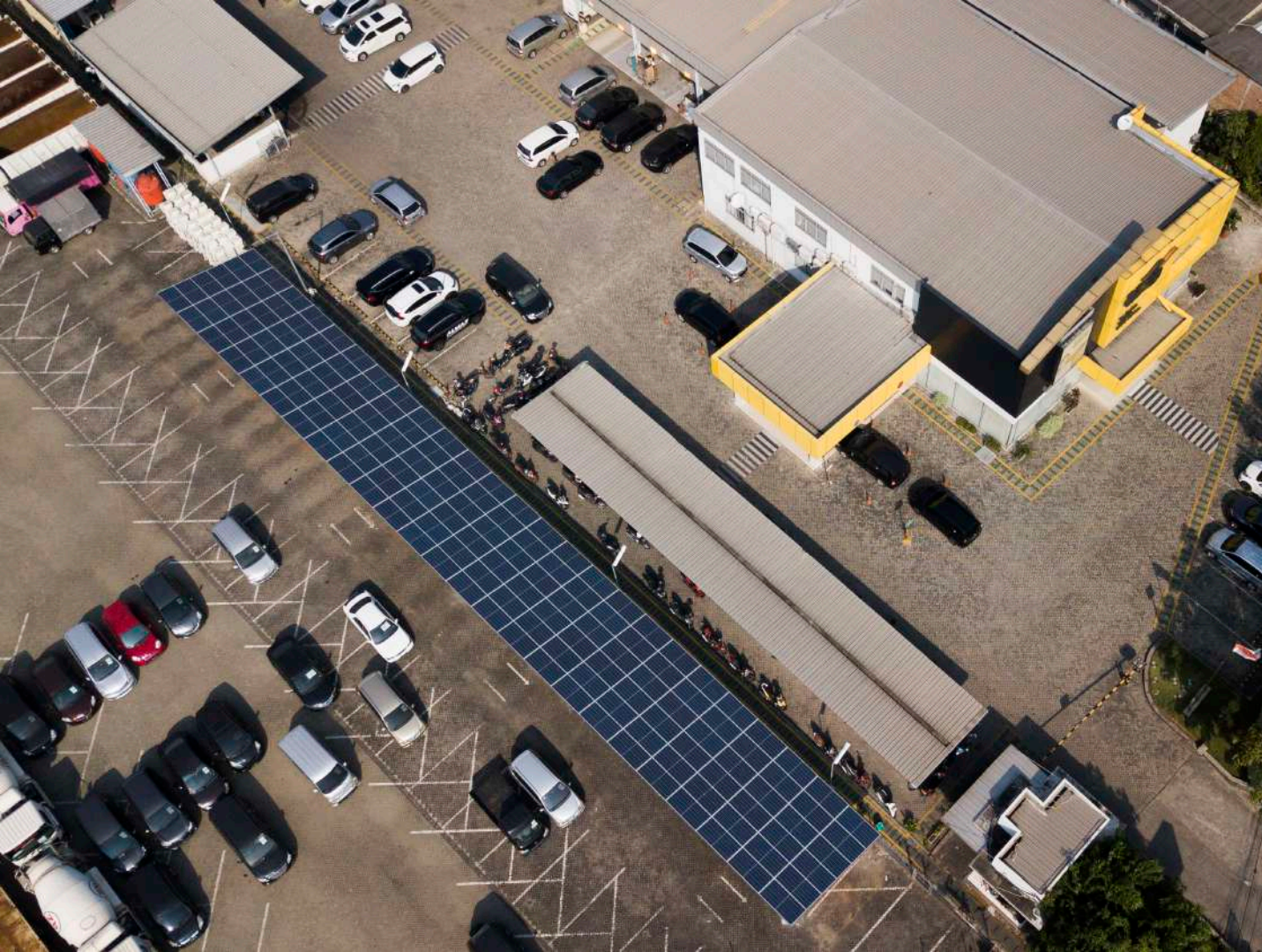
The project consists
of 4 (four) areas of
rooftop &
ground-mounted

Commissioned
by PT Selaras
Daya Utama
(SEDAYU) in
2019



**On-grid
750 kWp
Chandra Asri
Petrochemical**

Commissioned
by PT Selaras
Daya Utama
(SEDAYU) in
2019



On-grid 800 kWp **ASSA**

The project
consists of
5 (five) ASSA
locations in
Indonesia

Commissioned
by PT Selaras
Daya Utama
(SEDAYU) in
2019



On-grid 50 kWp PLN Tahuna

Commissioned
by PT Selaras
Daya Utama
(SEDAYU) in
2012



**On-grid
90 kWp
Bank
Indonesia**

Commissioned
by PT Selaras
Daya Utama
(SEDAYU) in
2015



On-grid
189 kWp
Pertamina
Cilacap

Commissioned
by PT Selaras
Daya Utama
(SEDAYU) in
May 2017



On-grid Residential 30 kWp Jakarta

Commissioned
by PT Selaras
Daya Utama
(SEDAYU) in
2016




On-grid Residential 10 kWp Jakarta

Commissioned
by PT Selaras
Daya Utama
(SEDAYU) in
2016



On-grid Residential 7.5 kWp Bogor

Commissioned
by PT Selaras
Daya Utama
(SEDAYU) in
2015

A group of approximately ten children and two adults are posing for a photo in front of a large, tilted solar panel array. The children are dressed in casual clothing, some in t-shirts and shorts, and are making various hand gestures. The adults are also dressed in casual clothing. The solar panel array is mounted on a wooden frame and is tilted towards the sun. In the background, there are lush green hills and mountains under a clear sky. The overall scene is bright and sunny.

PLTS Off-grid 10 kWp Daboto, Papua

Commissioned
by PT Selaras
Daya Utama
(SEDAYU) in
2016

Some of more than 150 SEDAYU Solar Power Projects

1MW Paiton Energy (2019)
750 kWp Chandra Asri Petrochemical (2019)
525 kWp South East Sulawesi Off-grid (2017)
475 kWp Mattiro Ujung Off-grid (2015)
350 kWp Morotai Off-grid (2015)
350 kWp Timika Off-grid (2017)
325 kWp Merauke Papua Off-grid (2017)
300 kWp Pegunungan Bintang (2012)
245 kWp West Kalimantan II Off-grid (2015)
220 kWp South East Sulawesi Off-grid (2015)
200 kWp Nunukan Off-grid (2015)
200 kWp Lampung Off-grid (2015)
189 kWp Pertamina Cilacap (2017)
168 kWp Universitas Syiah Kuala (2019)
165 kWp Lampung Off-grid (2014)
150 kWp Sekikilan Off-grid (2015)
120 kWp Boleng Island Off-grid (2019)

100 kWp Pembelianan Off-grid (2015)
94.5 kWp Pertamina Balikpapan (2017)
90 kWp Bank Indonesia Jakarta (2015)
80 kWp West Kalimantan Off-grid (2015)
80 kWp Raja Ampat Off-grid (2017)
75 kWp Bumi Ratu Hybrid (2013)
70 kWp Usu Island Off-grid (2019)
60 kWp Matohara Morotai (2016)
50 kWp PLN Tahuna (2012)
45 kWp PLN Gorontalo (2014)
40 kWp YPHP Papua (2017)
30 kWp Kemenhunkam Building (2016)
25 kWp POMI Building (2018)
25 kWp Blue Sky Project (2018)
21 kWp ASSA Jakarta (2018)
20 kWp Bank Indonesia Babel (2017)
and many others...

SEDAYU Solar Project References



PT Selaras Daya Utama

Indonesia's Leading Solar Energy Company

PT Selaras Daya Utama (SEDAYU)

Indonesia's Leading Solar Energy company

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RIGSIS COMPANY PROFILE

Prepared by
PT Rigsis Energi Indonesia
6 August 2020



RIGSIS





RIGSIS



2014

SOFTWARE
RIG MANAGEMENT SYSTEM



2016

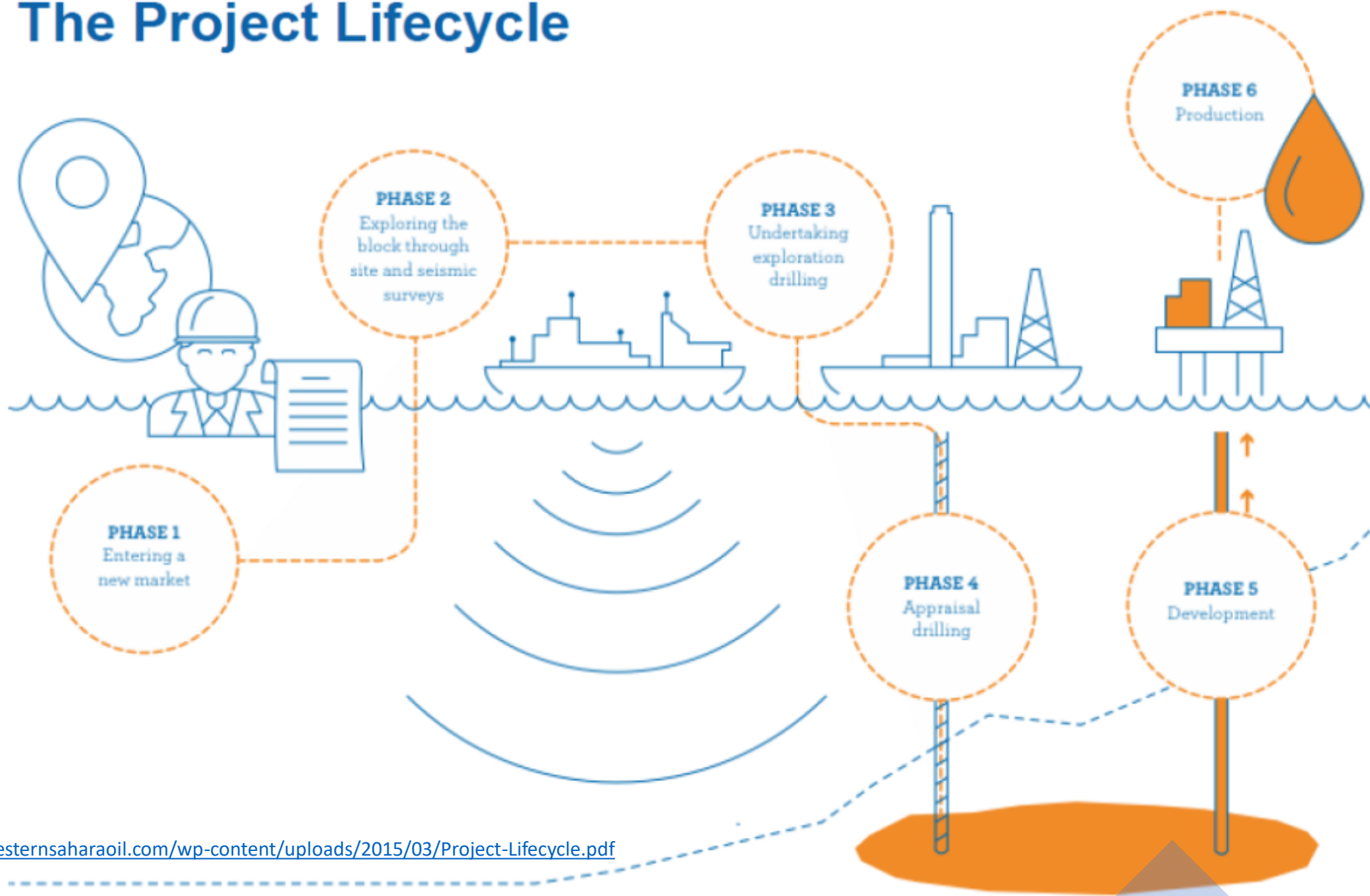
DRILLING EQUIPMENT
AND SPAREPARTS




2018

ENGINEERING CONSULTING
DRILLING & SUBSURFACE

The Project Lifecycle





12 Engineers of
14 People

50% Master Deg.

57% Female



24 published papers

The
SKILLSET

- Creative thinking
- Thinking conceptually and practically
- Problem-solving
- Communicating clearly and empathetically
- Organization and time management
- Curiosity
- Credibility

“



Always be **learning** something new and seeking more knowledge. Seek new ways of doing things and new experiences. Always be up to date on **current and future trends and technologies**.

Experience

1 – 5 years	38%
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5 – 10 years	31%
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> 10 years	31%
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CLIENTS

58% oil & gas

42% geothermal



PT Geo Dipa Energi (Persero)



PT SARANA MULTI INFRASTRUKTUR (PERSERO)



PERTAMINA

PHE NUNUKAN COMPANY



PremierOil



MEDCOENERGI



EXSPAN
PETROGAS
INTRANUSA

