C&I PV ROOFTOP BUSINESS IN INDONESIA
PRESENTATION

"WE CAN MAKE A BETTER WORLD TOGETHER"

Prepared for Business Forum: *Webinar Surya Atap untuk Sektor Komersial dan Industri di Jawa Tengah* – 6 Oktober 2021

TMLEnergy
Solar Energy Solution

OUR COMPANY

1 MWp SOLAR (PV) POWER PLANT MAUMERE, NTT

TMLEnergy

(PT. Tritama Mitra Lestari)

EPC business company in renewable energy
(specialized in PV Solar Energy

Was Founded in November 2011
as PT. Tritama Mitra Lestari

OUR VISION

Serve energy for a better future

OUR MISSION

Providing solution for increasing demand from alernative energy source

Address :
Jl. Soekarno - Hatta 541 C, Bandung

BUSINESS FLOW & ACTIVITY

Feasibility & Initial Engineering

- Feasibility Study
- Plant Configuration Study
- Interconnection Study
- Detailed Engineering

Project Execution

- Project Management
- Construction Management
- Survey Activities & Drawings
- PV Power Plant Civil Works
- Site Improvements
- Wiring & Installation
- PV Power Plant Mechanical Works
- Testing & Commissioning
- Procurement
- Operator Training

Operations & Maintenance

- Optimization Maintenance
- Monitorings
- Re-Commissioning

COMPANY EXPERIENCES

PV Rooftop System for Commercial & Industrial Sectors

Factory Case Example

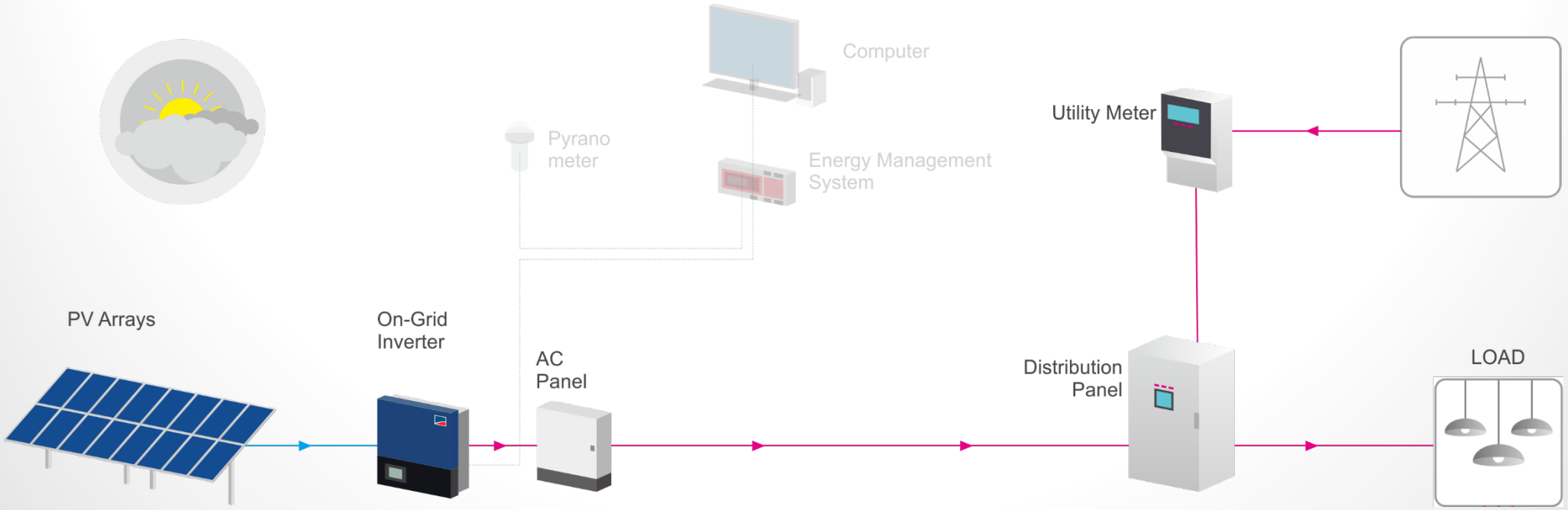
PV Application

- Commercial and Industrial

GALLERY PROJECT AT GLANCE (1)

1.4 MW Solar (PV) On Grid
Industrial Park, JABAR

Typical On-Grid Installation



On Grid system uses utility grid as reference for generating AC Electricity
No battery for energy storage

**Pyranometer, computer, and data management system are optional items*

Solar PV System are designed for 20 years lifetime

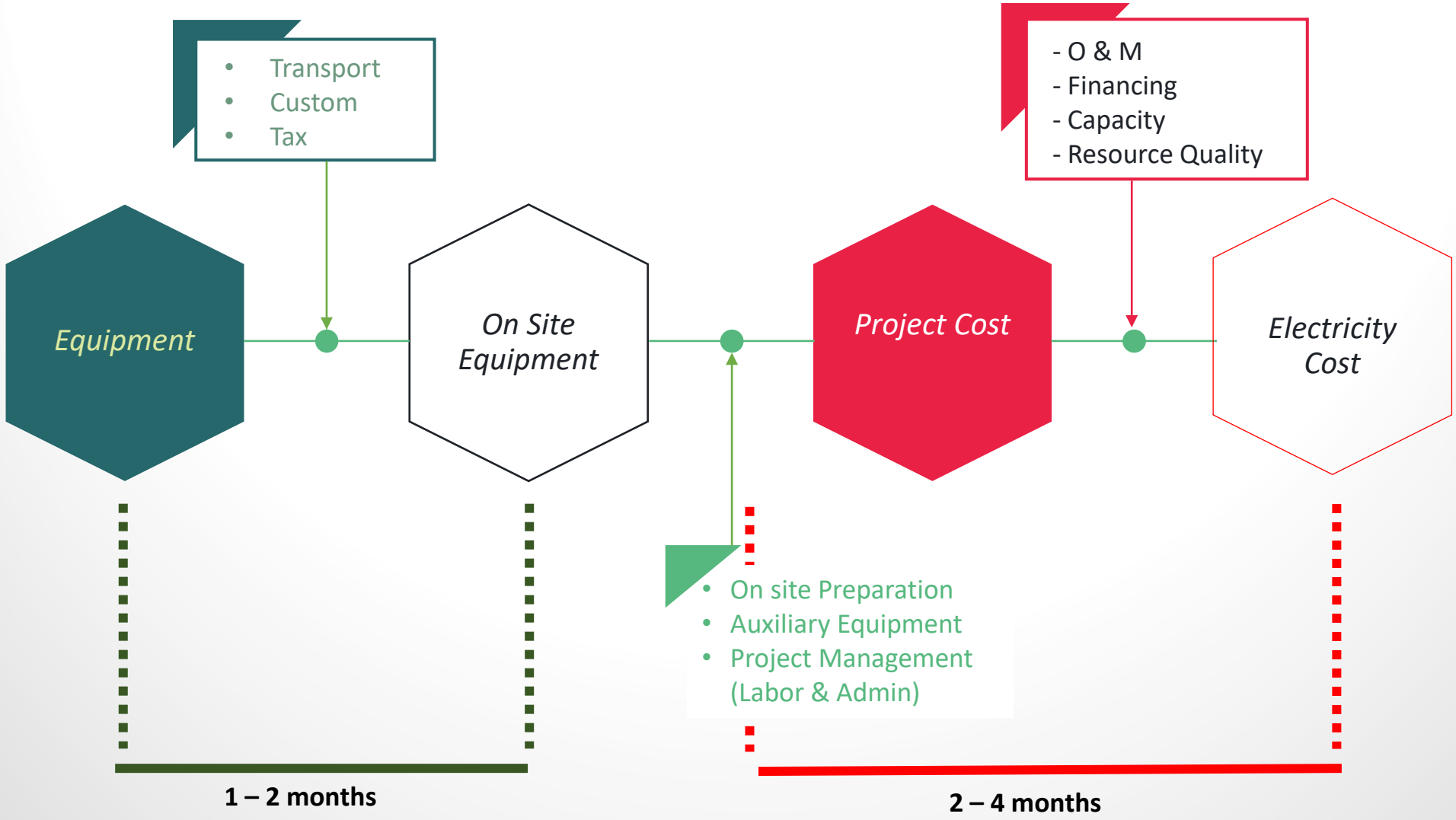
No Moving Parts

Virtually zero maintenance

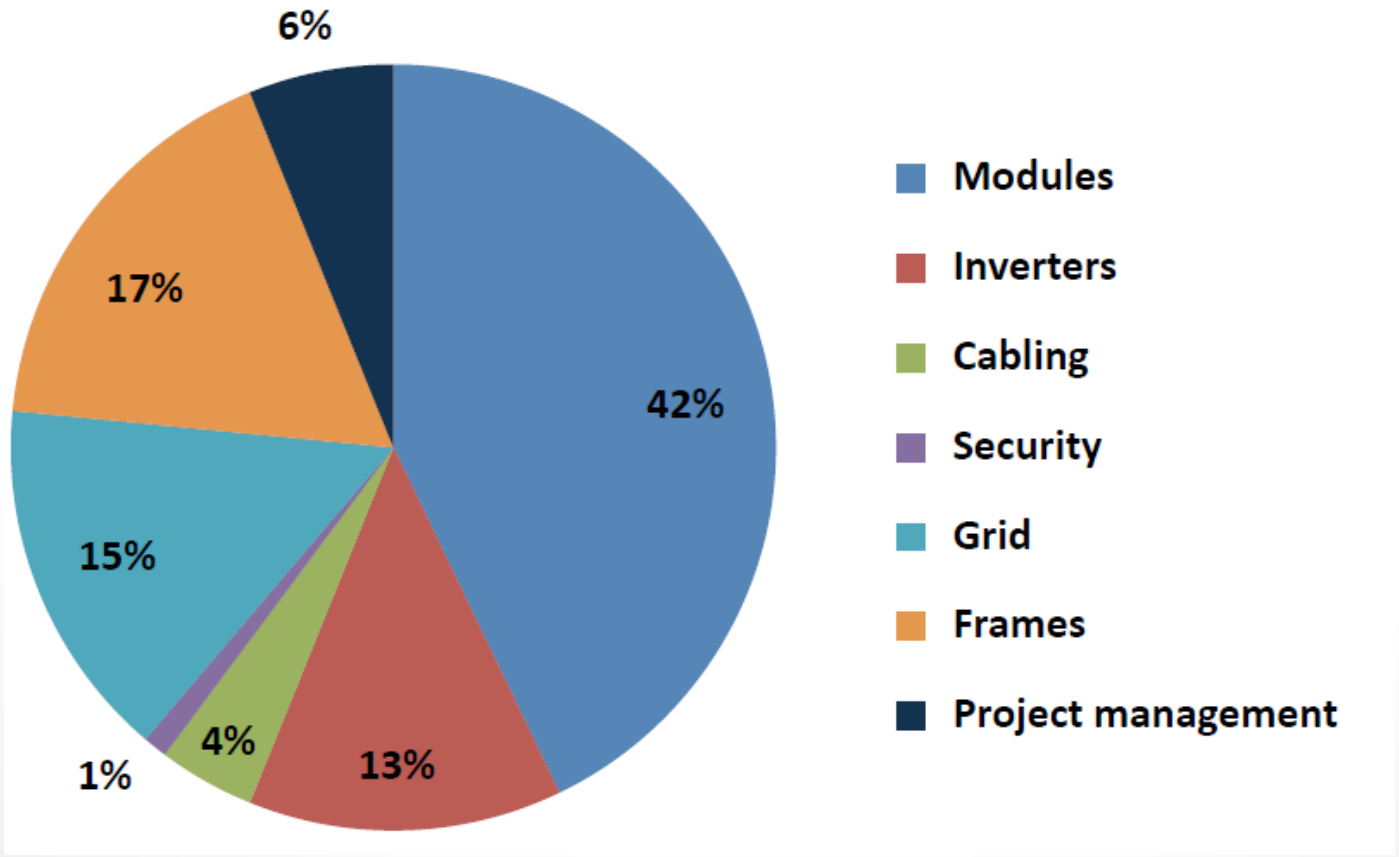
Long product warranty

Component/Item	Warranty Duration	Remarks
PV Modules – Product	10 Years	Industry Standard
PV Modules – Performance	25 years	With at least 80% power at year 25
Inverter	5 years	Extendable up to 20 years
Module mounting structure	10 years	Industry standard, designed for up to 25 yrs

Cost Structure and Lead Time for General PV System



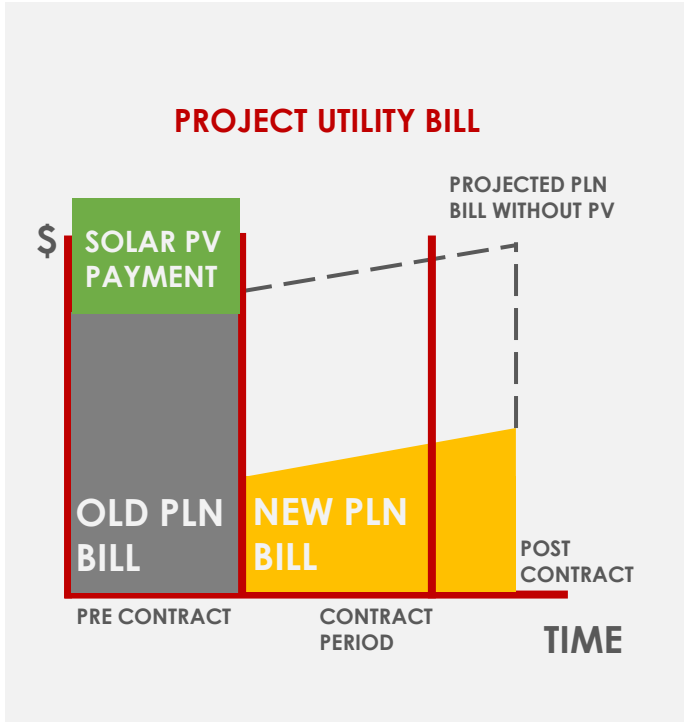
PV System Cost Structure for Utility Scale



Source: World Bank, 2015, Utility Scale Solar Power Plants, A Project Developer's Guide

OPTIONS FOR PURCHASE

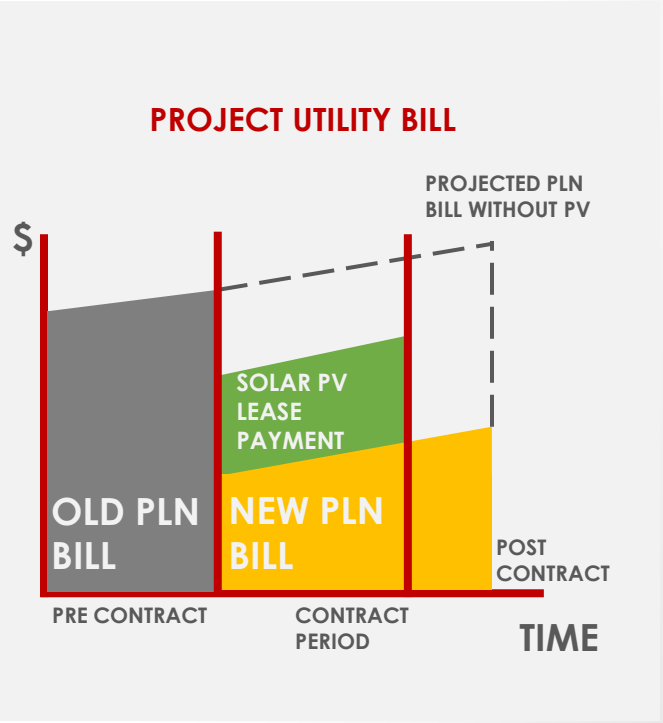
FULL PURCHASE



HIGH SAVING FOR ENERGY COST ✓

or

LEASING SCHEME



- NO INITIAL CAPEX ✓
- OPERATION AND MAINTENANCE INCLUDED ✓
- CUT ELECTRICITY BILL ✓
- LOWER RISK ✓

TML-USOLAR Scheme for PT XXX– Jepara, Jawa Tengah

Potential Capacity:
500 kWp

Potential Energy Generated:
666.351 kWh/year

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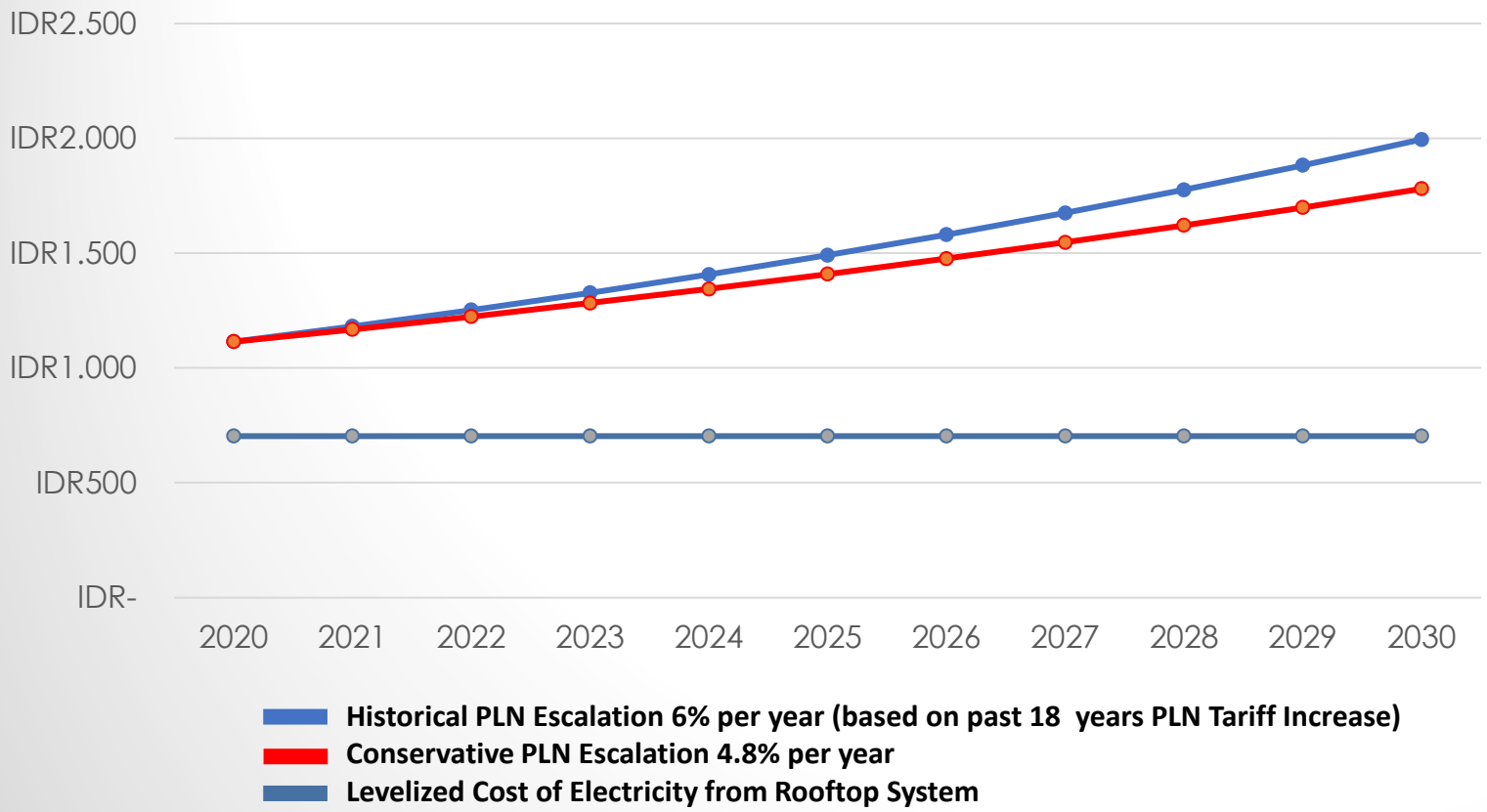
Solar Energy Solution

TML-USOLAR Scheme for PT XXX– Jepara, Jawa Tengah



Estimated Capex:
Rp. 4.951.750.000 (exc. PPN)

Expected Monthly Savings:
Rp. 62.825.880,-

Total Accumulative Savings until 25 years:
± Rp. 9,6 M,-

Up to 8 Years Installment Period

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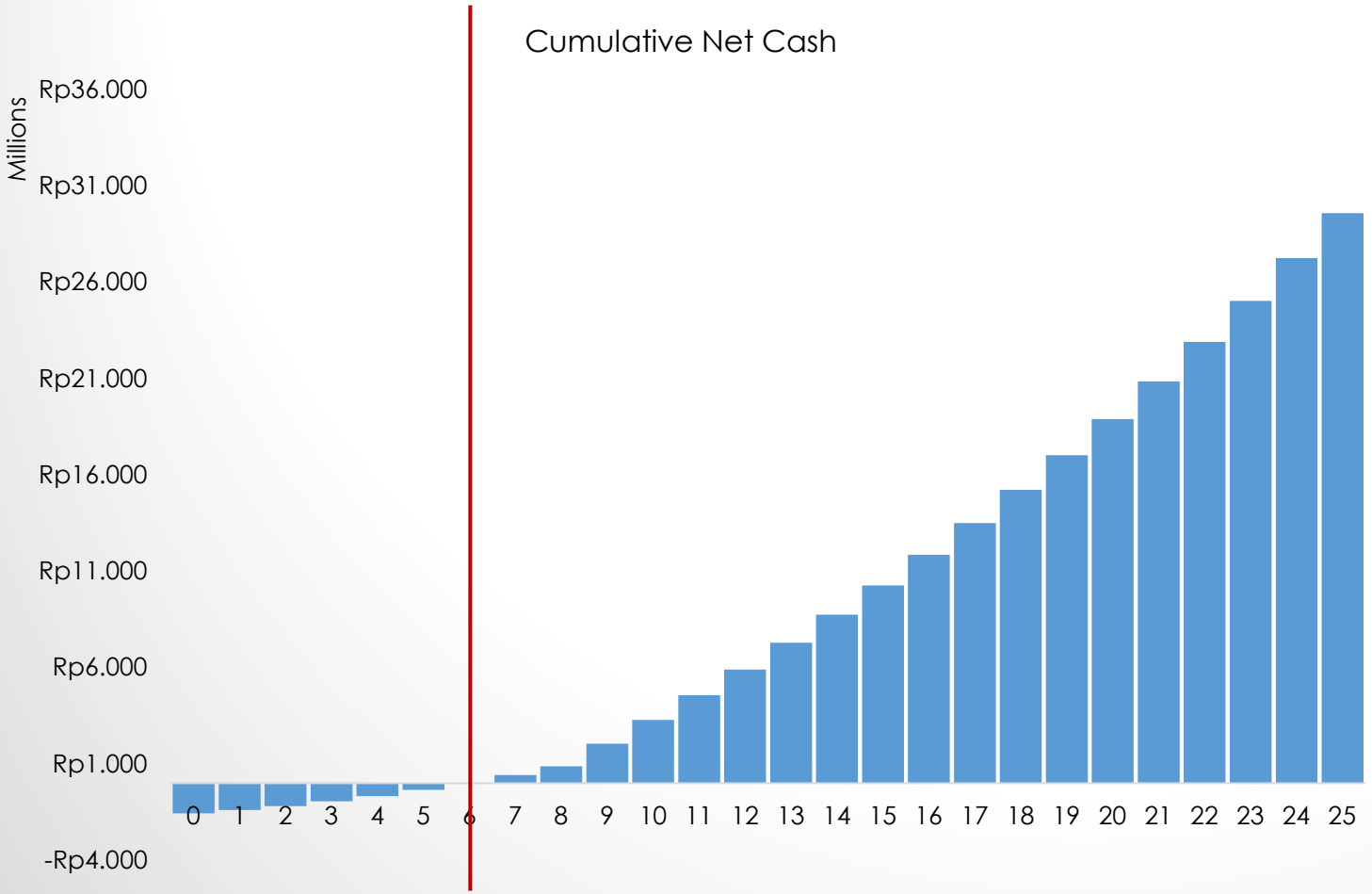
Solar Energy Solution

Simple Payback Period



INPUT

Tariffs Rate **Rp 1066 /kWh**

PLN Tariffs escalation **4,8%**

PV annual degradation **0.7%**

Payback Period

5.36

YEARS PAYBACK, 25 YEARS LIFETIME


THANK YOU