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YOUR TEAM TODAY

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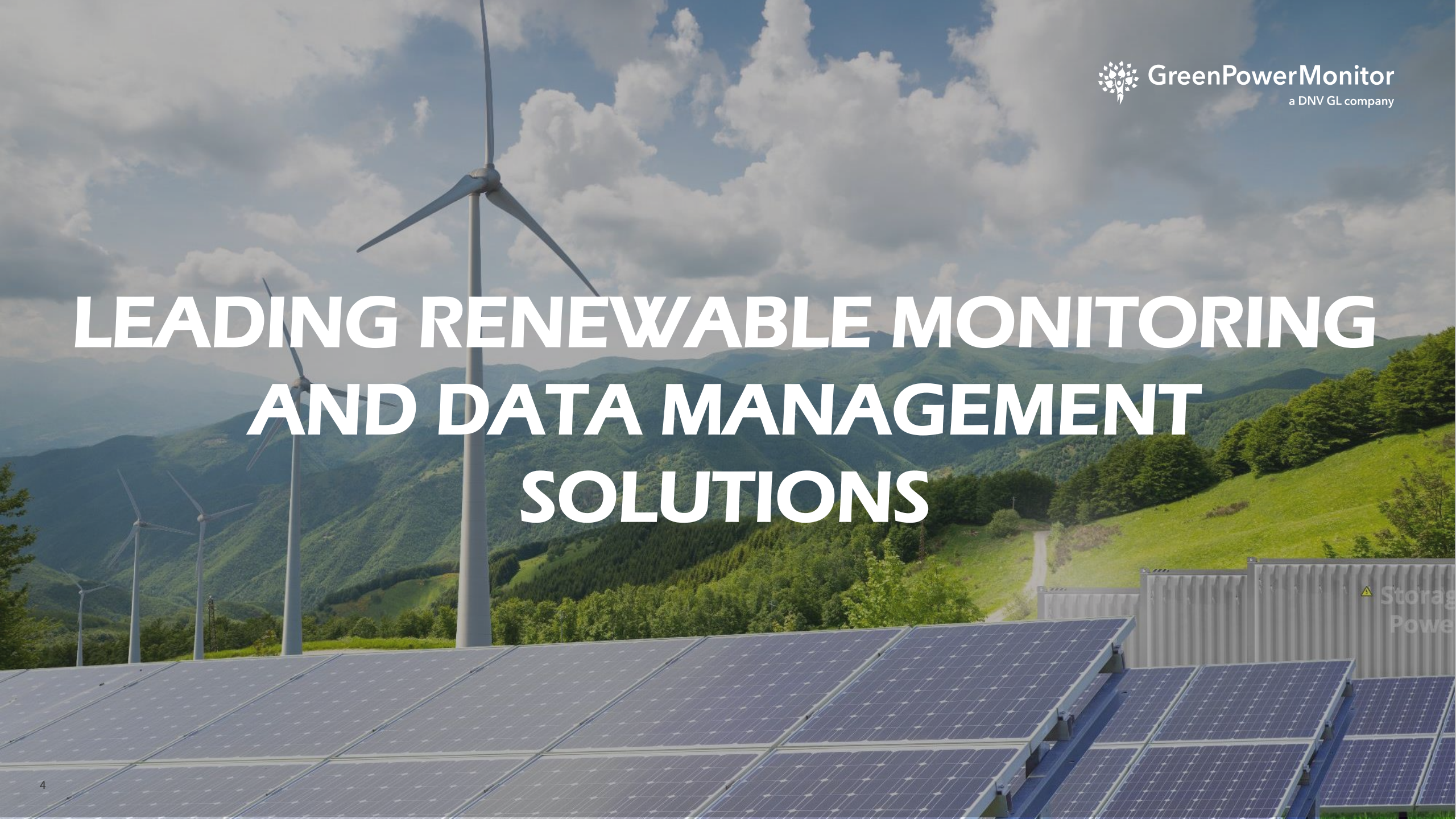
SUPPORTING O&M MOVING FORWARD WITH UNSUBSIDIZED SOLAR

London, January 30th 2019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LEADING RENEWABLE MONITORING AND DATA MANAGEMENT SOLUTIONS

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INTRODUCTION

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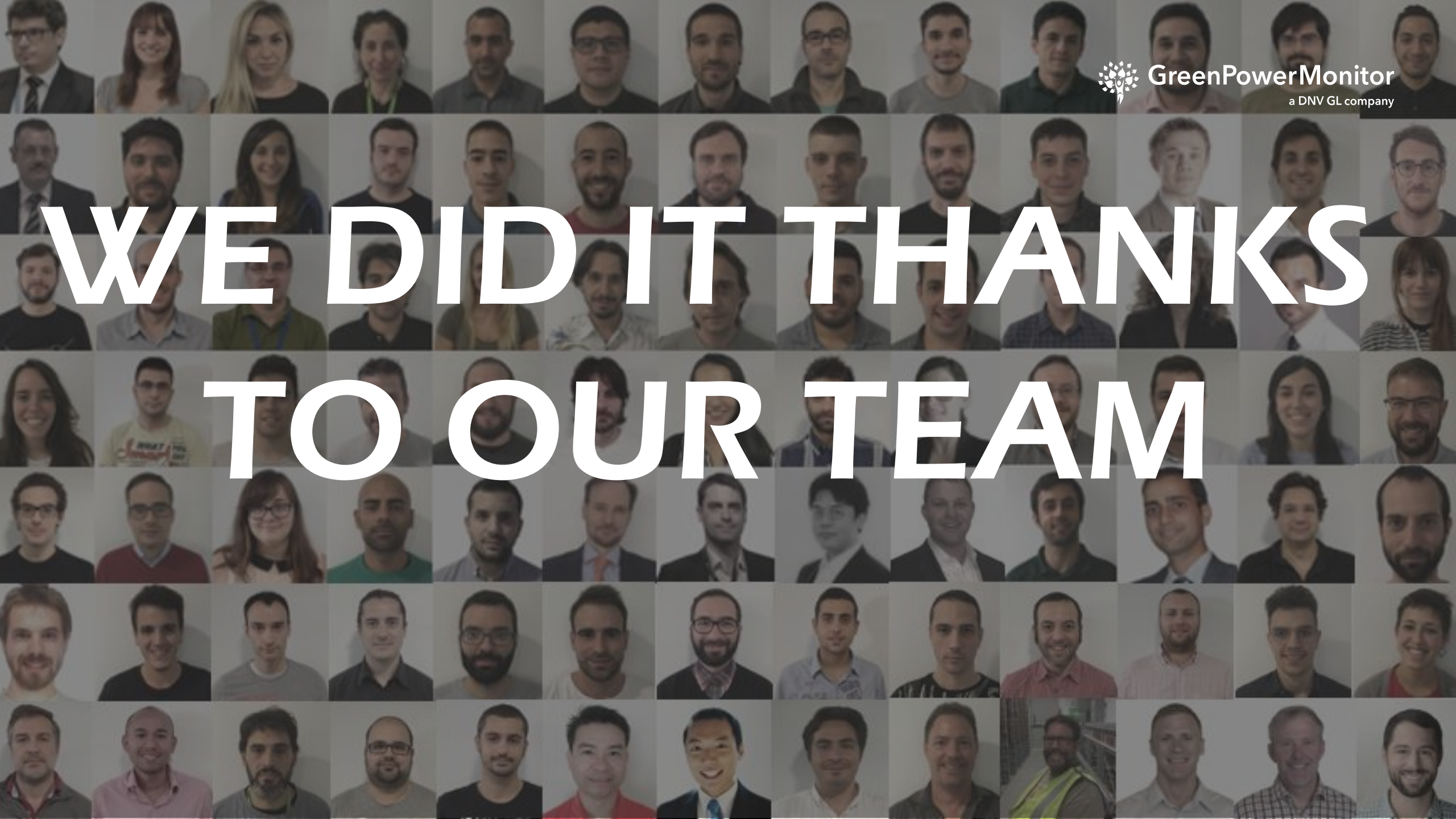
WHY DO WE EXIST?

We love renewable energy

GreenPowerMonitor, part of the DNV GL, is an international company that offers products and services in the renewable energy sector.

Our purpose is to provide tools to maximize performance of renewable energy assets, maximize efficiency in the management of renewable energy portfolios and contribute to have the ***greenest*** energy mix in the grid.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WE DID IT THANKS
TO OUR TEAM

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THE PRESENT: UNSUBSIDIZED ASSETS

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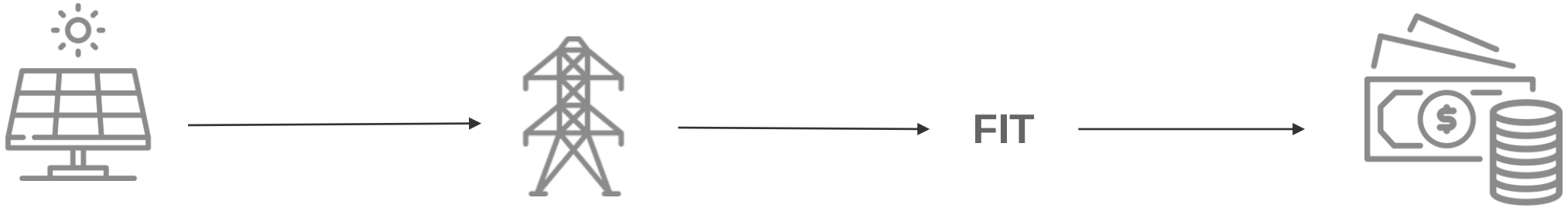
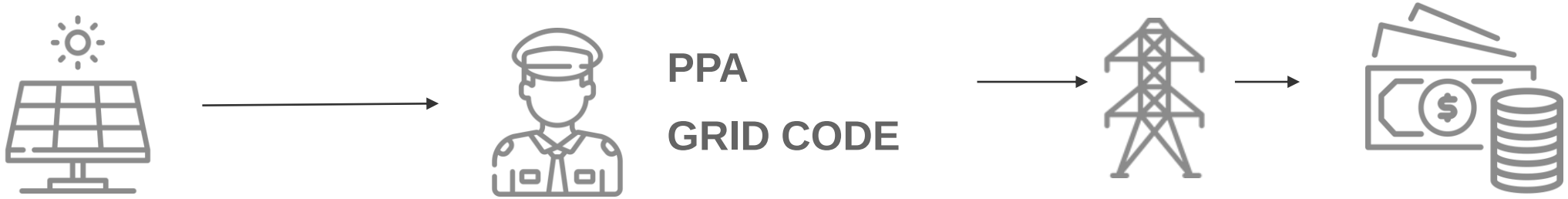
MODEL CHANGE

SUBSIDIZED SOLAR



UNSUBSIDIZED SOLAR



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WHAT DO WE INVESTORS EXPECT MOVING FORWARD?

Have prices moving **DOWN**

BELOW

FURTHER BELOW

I SAID DOWN!

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OPERATING UNSUBSIDIZED ASSETS:

- Do our assets need less O&M activities?
- Will O&M be easier on new assets?
- Will the O&M actions cost less?

JUST BECAUSE OUR ASSET IS UNSUBSIDIZED,

THEY DO NOT NEED DIFFERENT CARE... TODAY.

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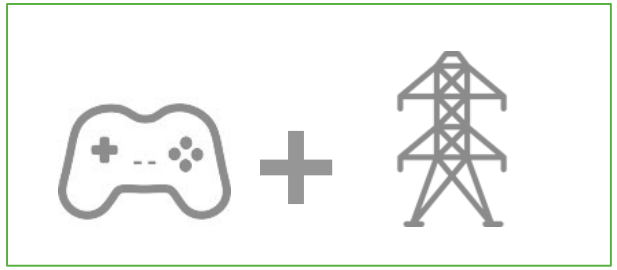
WHAT DIFFERENCES WILL WE HAVE OPERATING UNSUBSIDIZED ASSETS TODAY?

CONTROLS
PPA



CONTROLS
POOL

?

COST
REDUCTION

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AND THE FUTURE? ENERGY TRANSITION OUTLOOK

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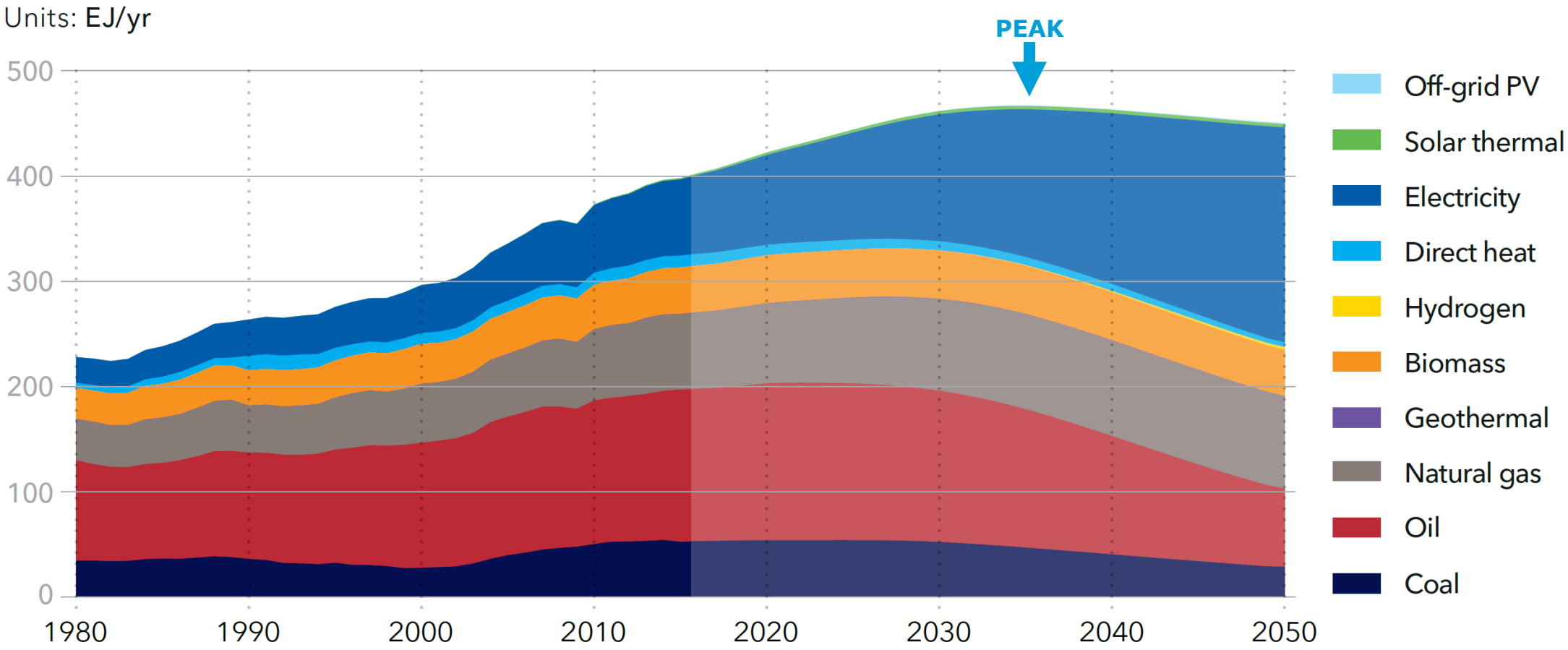
OUR ETO

World final energy demand by carrier



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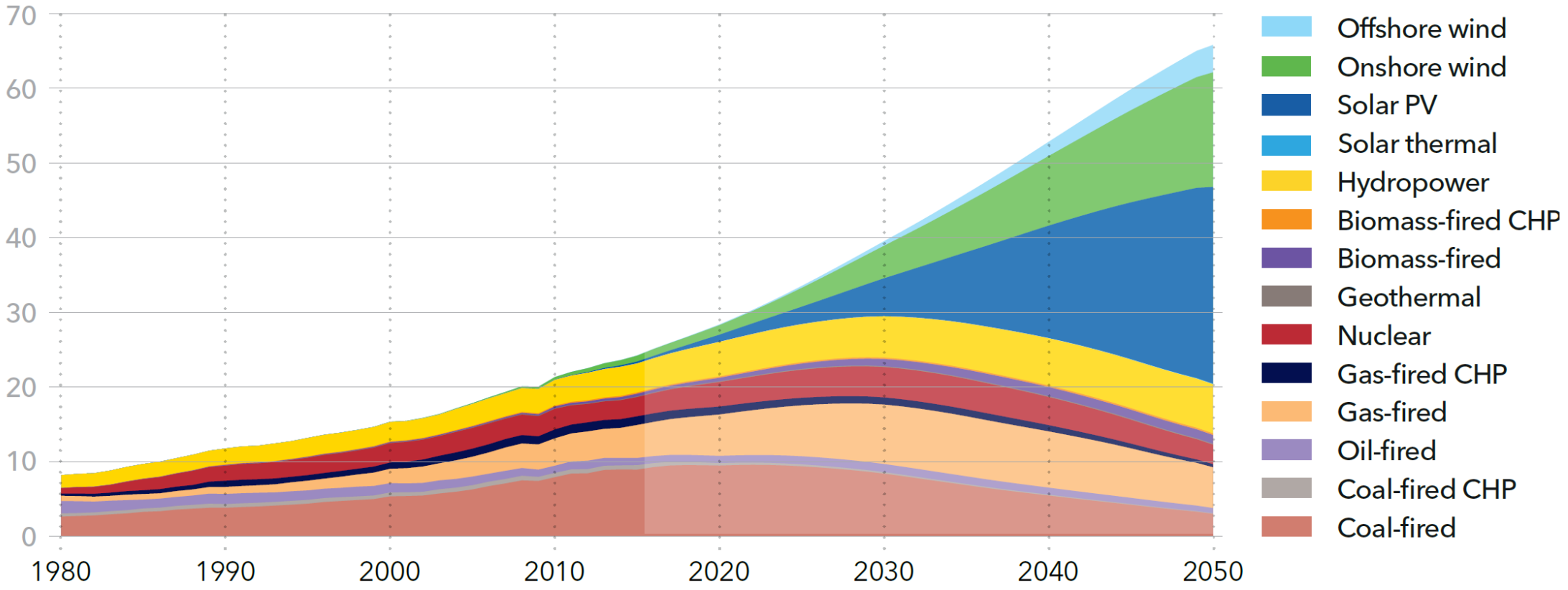
OUR ETO

World electricity generation by power station type

Units: **PWh/yr**



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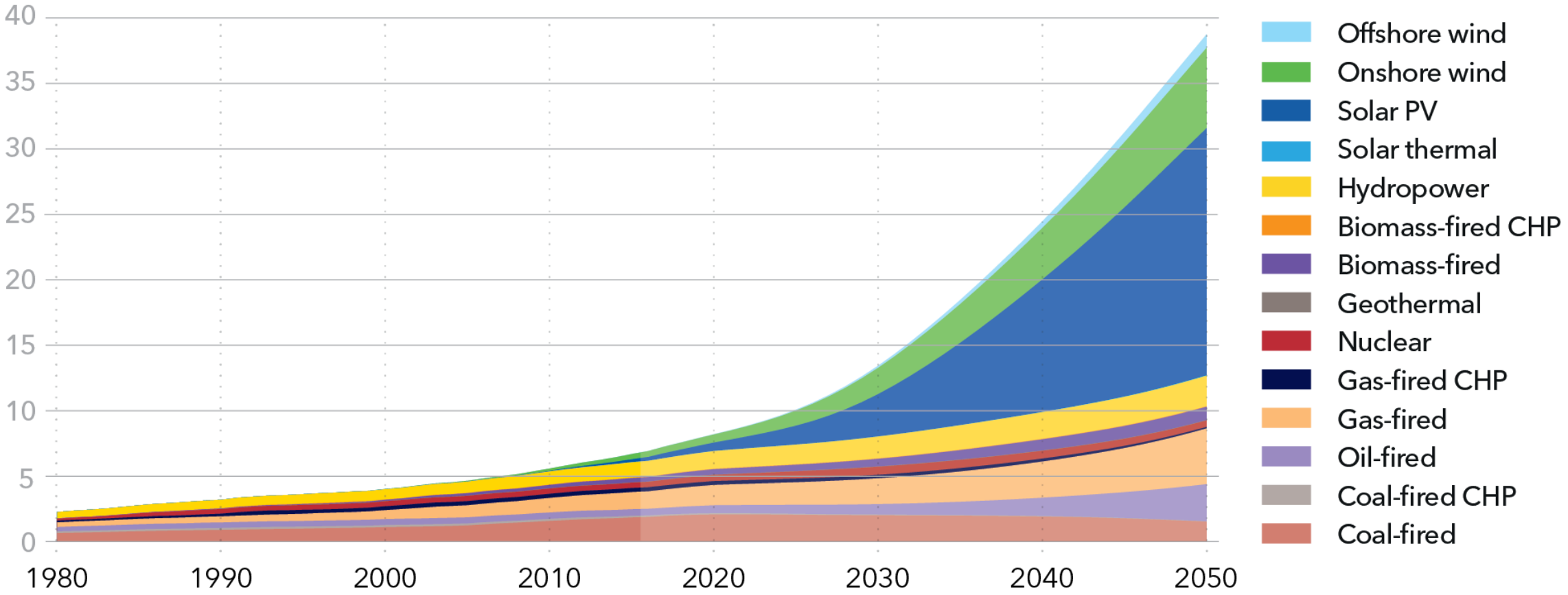
OUR ETO

Electrical Generation: INSTALLED CAPACITY

Units: TW



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CONCLUSIONS

The world will become electric!

Renewables to satisfy 80% of the electrical demand

Solar will be the technology with the biggest growth

MARKET BOOM IS STILL TO COME!

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CONCLUSIONS

- Business model will be challenged
- Storage to play a key role
- Renewables to compete with traditional generators
- Portfolios to consolidate into bigger portfolios
- To succeed we need to be more efficient

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SUPPORTING ENERGY TRANSITION

HOW WILL THIS IMPACT UNSUBSIDIZED SOLAR SCHEMES?

OPERATIONAL COST REDUCTION

- Digitalization
- Adding value from experience
- Algorithms that support efficiency
- Management of consolidated portfolios

ARTIFICIAL INTELLIGENCE

ASSET MANAGEMENT

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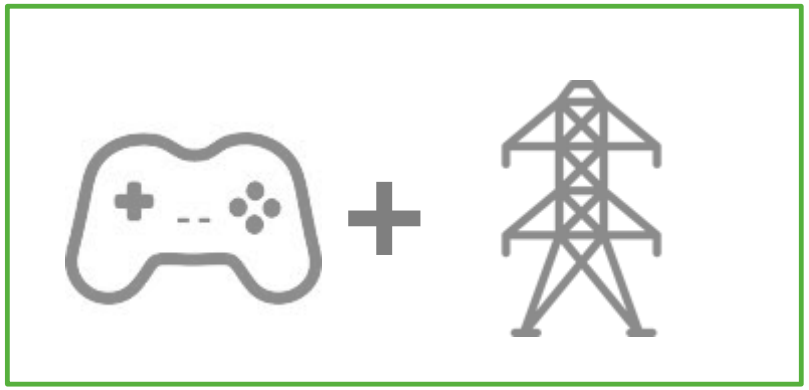
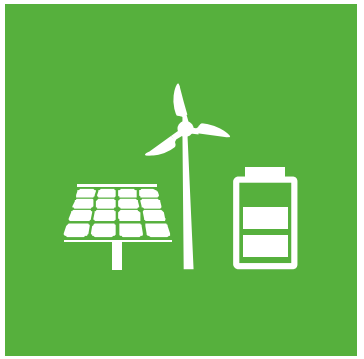
HOW WILL THIS IMPACT UNSUBSIDIZED SOLAR SCHEMES?



CONTROLS

- Supporting the grid
- Trading energy efficiently
- Combining technologies to support demand

GRID INTEGRATION



MULTI-TECHNOLOGY

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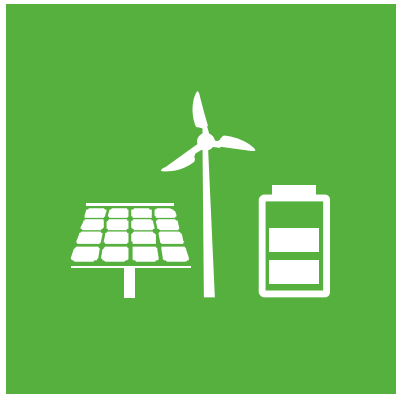
CONCLUSION: *TRENDS TO SUCCEED IN THE FUTURE*

ARTIFICIAL INTELLIGENCE



MULTITECHNOLOGY

ASSET MANAGEMENT

GRID INTEGRATION

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HOW IS ENERGY TRANSITION GOING TO BE?

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CHALLENGING

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FUN!

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