MOTA-ENGIL

RENEWING

SMART ENERGY

RENEWABLE ENERGY COMMUNITIES - REC

VERSION 01

TABLE OF CONTENTS

* In this paper we refer to Energy Communities (RECs) to describe the various energy aggregation solutions: Collective self-consumption - CSC, the Energy Citizens' Communities and the Renewable Energy Communities.

1. MOTA-ENGIL RENEWING

OUR PURPOSE

Speed up the energy transition and decarbonization of large cities, companies and industry
is Mota-Engil Renewing's strategic view.

The Group's cleantech was incorporated in 2019 and integrated in the sub-holding Mota-Engil Capital.

Smart Energy

Production, storage and smart management of energy

- **Renewable energy production and exploration solutions for individual self-consumption**
- **Development and operation of Renewable Energy Communities (RECs)**

Smart Charging

Development and exploration of electric charging solutions

- **Corporate electric charging solutions**
- **Private and public electric charging hubs**

2. HOW A REC WORKS

THE CONCEPT

It is a new model of energy management and optimisation, consisting of a set of members, which can be citizens, businesses, industries, public entities and local actors, who group together to produce, store, consume locally renewable energy, sharing and trading among themselves and or with third parties outside the Community.

In addition, RECs can also provide grid services, for example flexibility, either directly or through aggregation.

RECs are key in accelerating the energy transition by providing green, decentralized, more competitively priced energy available to all!

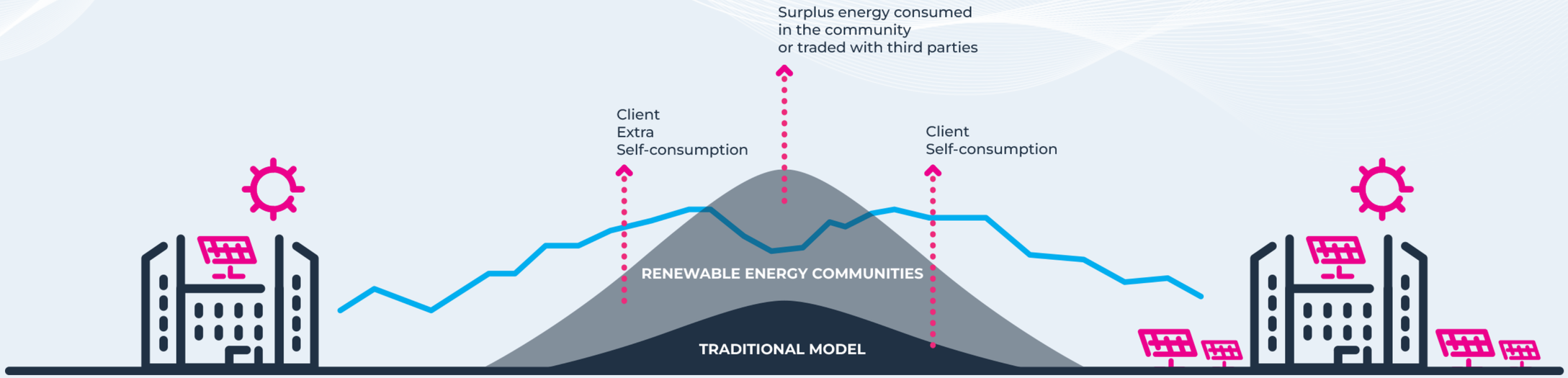
DIFFERENCES BETWEEN THE TRADITIONAL MODEL AND REC

TRADITIONAL MODEL
(SELF-CONSUMPTION AND TURNKEY)

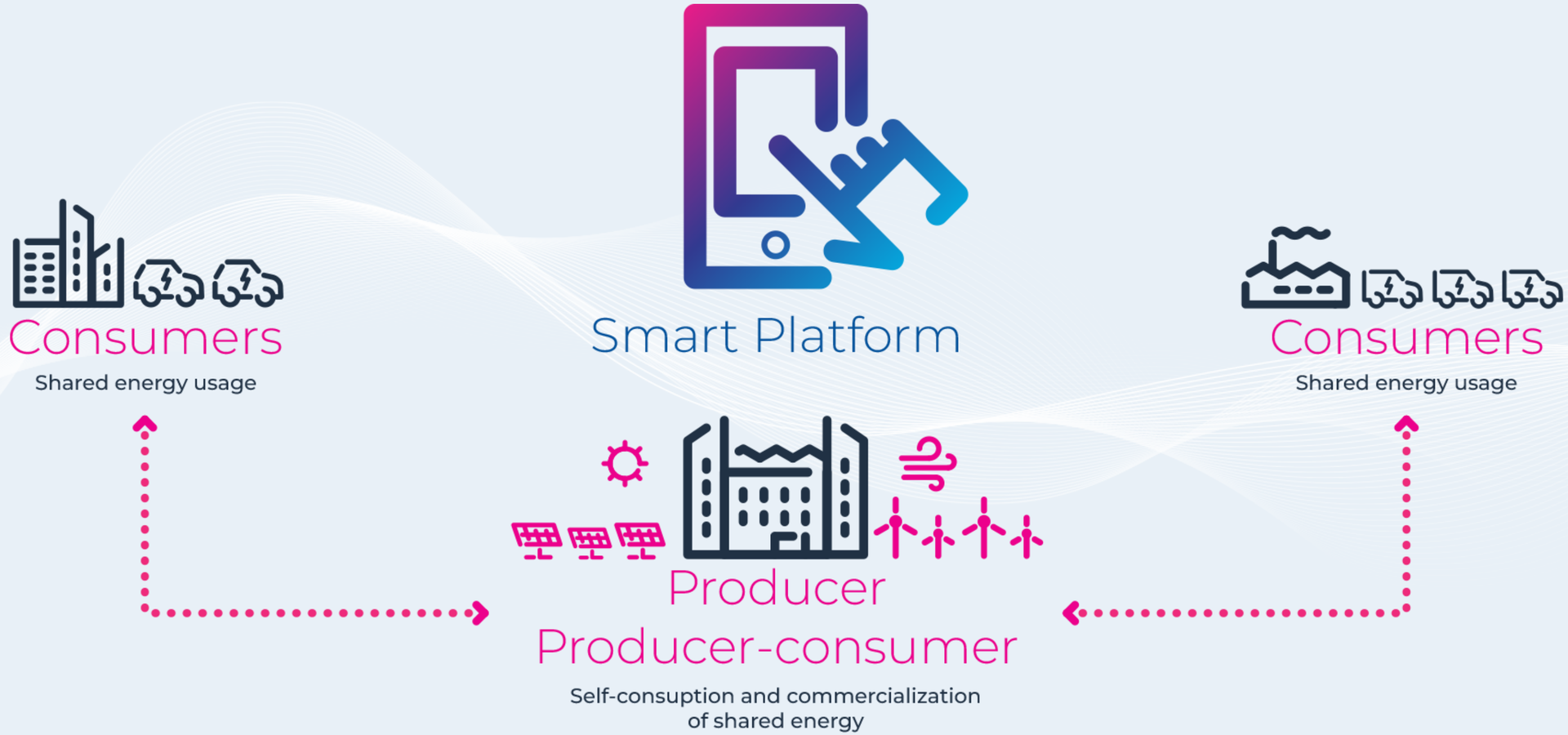
- Client investment
- Pays for the surplus energy not consumed
- Photovoltaic capacity optimized for self-consumption
- Smaller photovoltaic systems
- Self-consumption limited to own building
- Excess production undervalued and therefore avoided
- Less impact on C02 reduction

RENEWABLE ENERGY COMMUNITIES

- No initial investment by the client
- Only pay for the consumed energy
- Maximization of production and use of rooftops and land
- Larger photovoltaic systems
- Maximization of energy savings
- Surplus energy consumed in the community or traded with third parties
- Increased decarbonization of property assets



HOW A REC WORKS



ONLY PAYS CONSUMED ENERGY
MONETIZES NON-CONSUMED ENERGY

HOW A REC WORKS

Installation of renewable energy solutions at the producer

Production of renewable energy

Canvassing for members

Energy sharing between producers and consumers

3. OUR COMMUNITY MODELS (REC)

TYPES OF MODELS AND SERVICES INCLUDED

REC

FULL OPERATING MODEL

Clients do not have initial renewable energy production and storage infrastructure.

SERVICES INCLUDED

- **100% Investment, engineering, design, installation of initial infrastructure**
- **100% Investment in infrastructure expansion (power increase)**
- **Operation and maintenance of assets**
- **Support in the creation and development of the RECs, including the relationship with the regulatory bodies**
- **Operation of the RECs (EGAC) - Management of the operation, maintenance and financial process**
- **Digital platform**

TYPES OF MODELS AND SERVICES INCLUDED

REC

EXPLORATION MODEL WITH OR WITHOUT EXPANSION

Clients already have initial renewable energy production and/or storage infrastructure in place.

SERVICES INCLUDED

- **100% Investment or co-financing in infrastructure expansion (power increase)**
- **Operation and maintenance of assets**
- **Support in the creation and development of REC, including the relationship with the regulatory bodies**
- **Operation of RECs (EGAC) - Management of the operation, maintenance and financial process**
- **Digital platform**

4. ADVANTAGES OF JOINING A REC

ADVANTAGES FOR PRODUCER AND CONSUMER

PRODUCER

0%
Initial investment

Reduction
of CO_2 emissions

Turnkey
Installation of panels

Increased
energy
efficiency

Pay only
consumed energy

Savings
for the entire community

CONSUMER

Greater savings
on the electricity bill

Reducing
the carbon footprint

Just join
a REC

Fixed price
for contract

Consumption
of 100% renewable energy

Positioning
of sustainability

GLOBAL ADVANTAGES

0%

investment

-(20 a 30)%

In electricity bill

-CO_2

Consumption of renewable energy with significant reduction of emissions, being able to aspire to achieve carbon neutrality

100%

Clean energy

5. REC MANAGEMENT PLATFORM

WHAT ENABLES US TO DO

Mota-Engil Renewing's digital platform allows managing, among others, the following aspects:

- **Producers and consumers registration**
- **Enrgy production and consumption management**
- **Requests for joining the community**
- **Communication between community members**
- **Accompanying the community creation process**
- **Invoicing and financial flow control**
- **Different interfaces and functionalities for producers and consumers**
- **Monitoring and sharing of community benefits**

6. REFERENCE PROJECTS

REFERENCE PROJECT

TÂMEGA PARK INDUSTRIAL COMPLEX

INDUSTRIAL ENERGY COMMUNITY

Creation, development and operation of a REC in the context of an industrial and business park, integrating solutions for photovoltaic production, storage, charging of electric vehicles, intelligent energy management, such as "grid to vehicle".

PROMOTION MODEL

0% CLIENT INVESTMENT

ANNUAL ESTIMATED SAVINGS

30%

DECARBONIZATION GOAL:

MAXIMISE REDUCTION IN CO2 eq EMISSIONS

REFERENCE PROJECT

SERVICE BUILDINGS, IN LINDA-A-VELHA

URBAN ENERGY COMMUNITY

Creation, development and operation of a REC, within the scope of an application to the RRP, in an urban environment, which arises from the headquarters of Mota-Engil in Lisbon and aggregates a set of service buildings in the surrounding area, integrating solutions for photovoltaic production, storage and charging of electric vehicles.

PROMOTION MODEL

0% CLIENT INVESTMENT

ANNUAL ESTIMATD SAVINGS

20 - 30%

DECARBONIZATION GOAL:

MAXIMISE REDUCTION IN CO2 eq EMISSIONS

Let’s create a community?

Contact us and we will explain how.

MOTA-ENGIL

RENEWING

ENERGY IN TRANSITION