

Bologna, Italy - 30 October 2020

EEMAXX

# Company profile Business Model

Kren Operations Group, Ltd.

[www.eemaxx.it](http://www.eemaxx.it)



# AGENDA

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- Company Profile



- Business Model



- Energy Markets



- Global Service Network



- Project References

# Business Scope

- New Energy Investments and Developments
- Investment Consultancy and management
- Project Proposals
- Project EPC Services
- Foreign Trade and Cooperation
- Master Planning Design Services

# Business Approach

- Establish partnership with international advanced new energy companies
- Possess mature technology and actual operation projects
- Possess a number of sustainable development projects on pipe line
- To acquire approved technology and IP patent in combination with project investment and construction finance
- Establish cooperation (joint venture) company to achieve cost effective and best value of EPC package for the project.

## Our Service Portfolio - Overview

1

- Project Development

2

- EPC

3

- Interconnection

4

- Project Asset Management, Operation & Maintenance

5

- Distributed Energy and Market Parity



## Our Service Portfolio - A Comprehensive Approach

1

### Project Development

- As a turnkey project developer, we are be able to offer project development up to completion as turn key solution.
- We develop own projects or acquire project rights.
- Our business model is BOT (Build Operate and Transfer) and IPP with attractive and bankable terms & conditions.
- We also provide EPC services.



## Our Service Portfolio - A Comprehensive Approach

2

### EPC

- As the general contractor, we deliver all the services towards the completion of turn-key Chemical plants, PV plants, wind farms, Cogeneration – CHP, biogas-biomethane plants and WTE including procurement or production of all necessary equipment and parts, as well as the installation.
- We have a strong network of equipment suppliers and service providers in place and work with experienced local or international EPC and/or BOS partners.



## Our Service Portfolio - A Comprehensive Approach

3

### Interconnection

- We take care of the connection to the grid, including tests, provisional acceptance and final acceptance certificate.

4

### Assets Management and Operation & Maintenance

- We can provide asset management and O&M services to the plant together with our service partners around the world.





# Our Service Portfolio - A Comprehensive Approach

5

## Distributed Energy and Market Parity

- We developed a new approach to power by offering distributed energy and market parity services including dispatching energy on and off grid if needed.

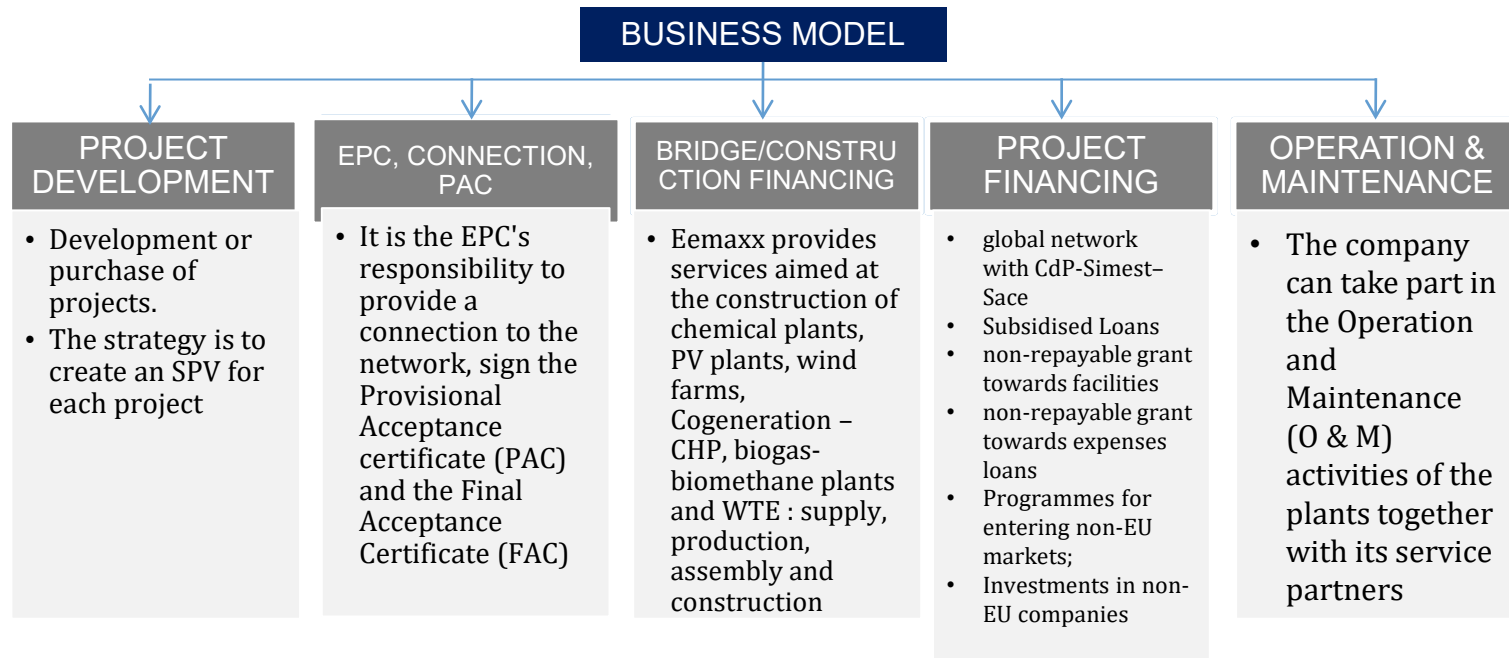


Six Energy  
Location: Emilia Romagna, Italy  
Location Type: Roof Top  
Project Scale: 2,3 MWp



Location: Campania, Italy  
Project Type: Roof Top  
Project Scale: 1,8 MWp





## Products, Certificates and Warranty



- Our manufacturing plant has been certified according to the following standards:
  - ✓ ISO 9001:2008 Certificate of Quality Management System
  - ✓ ISO 14001:2004 Certificate of Environment Management System
  - ✓ OHSAS 18001:2007 Certificate of Safety Management System
- Our production lines are under rigorous statistical process control
  - ✓ Strict online and before shipment quality control are conducted by using advanced inspection equipment.
- Our PV modules have been awarded with independent VDE, CSA, TÜV, UL, CEC and CGC certifications
- We always strive to make better products and spare no efforts to improve the quality and performance of our cells and modules

## Project References

# Our Track Record

Over the past three years, Eemaxx has completed projects in:

- Italy : 48 MW solar plants on the ground
- Italy : 30 MW solar plants on the roof
- Italy : 320 MW wind farms
- Italy : 6 MW biomass cogeneration plant wood chips

On-going projects in:

### Europe

- Italy: 95 MW solar plants on the roof tops
- Italy: 205 MW solar plants on the ground in industrial areas, waste plants , landfill and stone quarry
- Italy: KREN ENERGY DISTRICT: 9,9MW Cogeneration - CHP + solar plant – Biomethane plant – Wood chip Factory
- Italy: 3 biomethane plants with manure
- Italy: 129 MW wind farms
- Italy: 577 MW hydro power station
- Italy: 8 street lights contracts energy management projects
- Greece: 6 MW biogas straw
- The Netherland: 2 x Biogas manure 30M m3
- Serbia: 2 x 5 MW Cogeneration – CHP plants
- Serbia: 300 MW wind farms
- Serbia: 100 MW solar plants on the ground
- Bosnia: 8 Cogeneration – CHP plants wood chips
- Bosnia: 175 MW solar plants on the ground

## Project References

# Current Projects

- Croatia: 5 MW Cogeneration – CHP plant
- Bulgaria: 100 MW solar plant on the ground

### Africa

- Guinee Conakry: 100 MW solar plants on the ground
- Guinea Bissau: 100 MW solar plants on the ground
- Libya: 50 MW solar plants on the ground
- Senegal: 229 SOLAR POWER PLANTS on the roofs of drinking water supply systems with storage in agricultural area
- Senegal: 9 SOLAR POWER PLANTS on the roofs of drinking water supply systems with storage in the cities
- Senegal: 150 MW wind farms
- Senegal: 100 MW solar plant
- Ghana: Chlor-Alkali Project
- Côte-d'Ivoire: 70 MW Biomass cogeneration plant
- South Africa: Chlor-Alkali Project in the Richard's Bay Industrial Development Zone

### Middle east

- Jordan: 60 MW solar plant;
- Iraq: Urea Ammonia & Methanol Fertilizers
- Iraq: 755 MW solar plants;
- Oman: WTE plant

### ASEAN

- Brunei: 30 MW pv plants on the ground



## Project References



Six Energy  
Location: Emilia Romagna, Italy  
Location Type: Roof Top  
Project Scale: 2,3 MWp



Location: Campania, Italy  
Project Type: Roof Top  
Project Scale: 1,8 MWp



Location: Cuneo, Italy  
Project Type: Roof Top  
Project Scale: 1.8 MWp



Location: San Floro, Calabria, Italy  
Project Type: Ground Mounted  
Project Scale : 24 MWp



Italy «Defence» Portfolio  
Location: Various Regions, Italy  
Project Type: Roof Top  
Project Scale: 20,6 MWp total

## Project References



**Italy «retail park»**  
**Location:** Bologna, Italy  
**Project Type:** Roof Top  
**Project Scale:** 6,2 MWp total



**Italy «industrial factory»**  
**Location:** Bari, Italy  
**Project Type:** Roof Top  
**Project Scale:** 499,2 kWp

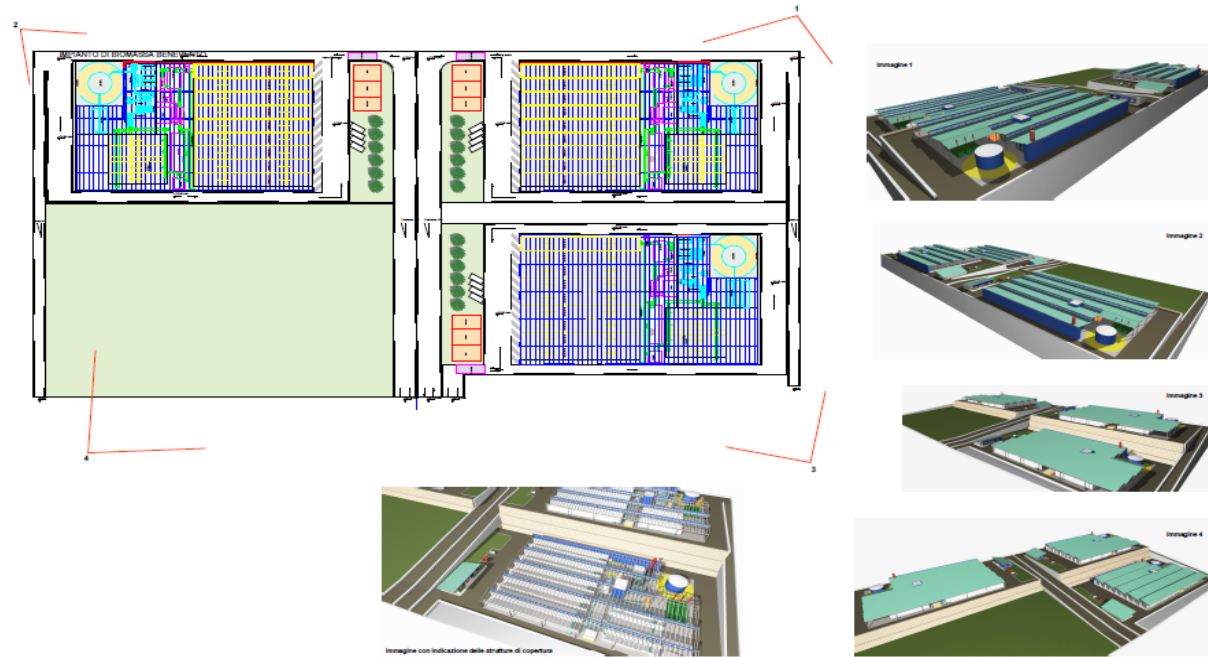
## Substation



Location: San Floro, Calabria, Italy  
Project Type: Ground Mounted  
Project Scale : 24 MWp



## Project References

**Cogeneration - CHP**

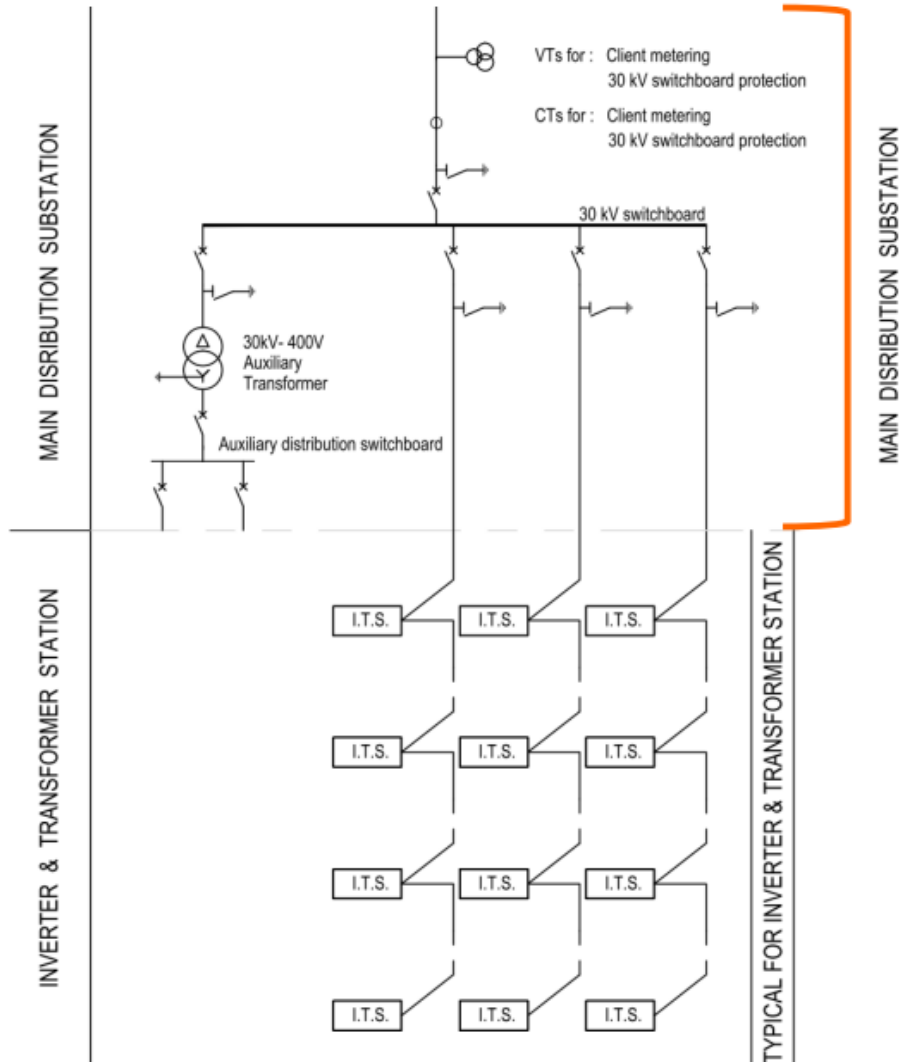
Location: Benevento, Campania, Italy  
Project Type: Biomass plant  
Project Scale : 2x1 MWp + 2 MWp

## Cogeneration - CHP



Location: Benevento, Campania, Italy  
Project Type: Biomass plant  
Technology Gasification module including  
wood line, drier, ash treatment

# Electric plants



## PV and Storage



Capacity: PV 40 kW + BESS 320 kWh  
+ Diesel 415 kVA  
Electricity saved each year: 84,096 kWh  
Estimated annual savings: US\$ 56,000



## Intelligent micro-grid system



Capacity : 30 kW / 100 kWh  
Type: PV + Storage + Diesel



Capacity : 100 kW / 200 kWh  
Type: PV + Storage + Diesel



## 40 MWE Waste to Energy plant



Location: Conakry, Guinea  
Project Type: WTE  
Project Scale : 40MWp

## Biomass cogeneration plants



### HAN PIESAK

- 1 Gasification unit
- 1 Torrifaction factory

**€15 M INVESTMENT**

Location: RIBNIK - Bosnia-Erzegovina

Project Type:

1 logistic center

1 Gasification unit

1 Torrifaction factor

Project Scale: €18 M INVESTMENT

## Pellet factories

### KOZARSKA DUBICA

- 1 Pellet factory

**€4 M INVESTMENT**



**Location:** SRBAC - Bosnia-  
Erzegovina  
**Project Type:** 1 Pellet factory  
**Project Scale:** €4 M INVESTMENT

### DOBOJ

- 1 logistic center
- 1 Pellet factory

**€5 M INVESTMENT**



### FOCA

- 1 Pellet factory

**€4 M INVESTMENT**



## OUR TRACK RECORD



ESTINNES

2006 Belgium  
81 MW Sold 2016

Developed Built  
Financed Operating



BIEVRE

2007 Belgium  
14 MW Sold 2014

Developed Built  
Financed Operating



FLOREFFE

2008 Belgium  
21 MW Sold 2015

Developed Built  
Financed Operating



LEUZE-EN-HAINAUT

2009 Belgium  
21 MW Sold 2015

Developed Built  
Financed Operating



ANGLURE

2007 France  
36 MW Sold 2013

Developed



LE NITIS

2017 France  
24 MW In operation

Developed Built  
Financed Operating



ESTAIMPUIS

2017 Belgium  
11 MW Sold 2017

Developed



GESVES - OHEY

2017 Belgium  
19 MW In operation

Developed Built  
Financed Operating

## Campolattaro Project *Setting*





## Campolattaro Project

*Some figures*

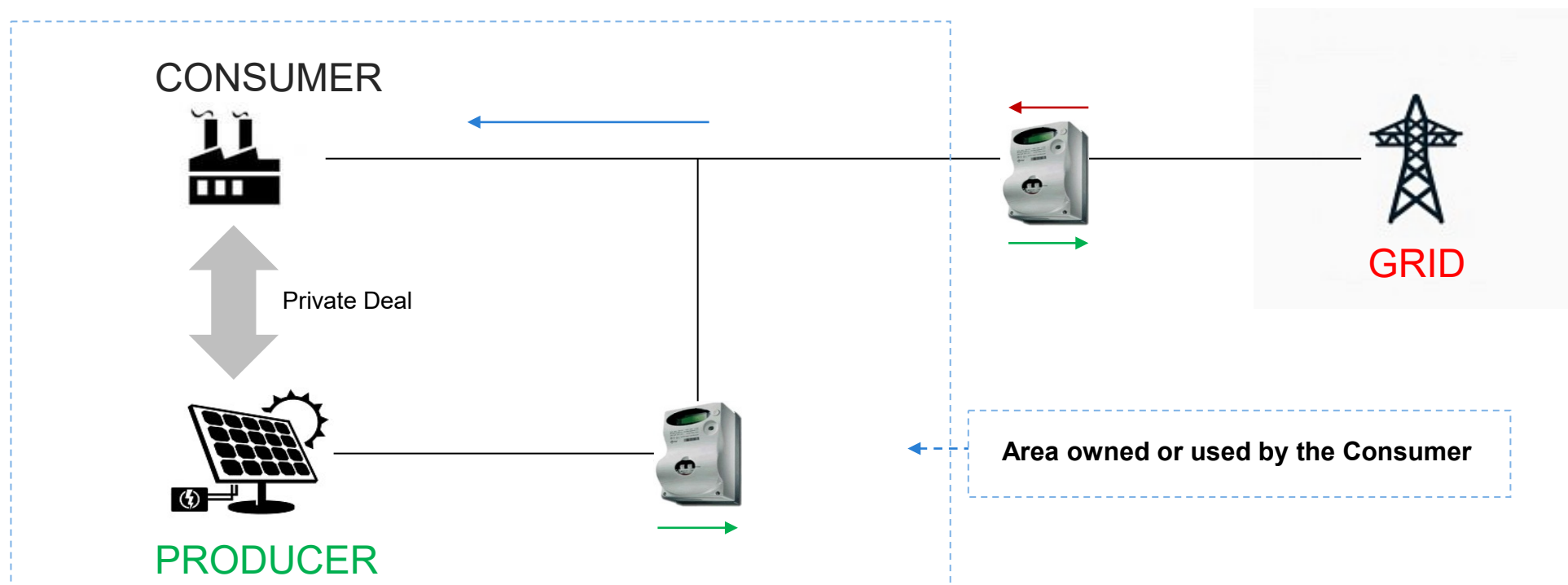
### The project

Hydraulic capacity of Monte Alto basin	7.000.000 m <sup>3</sup>
Maximum generation flow rate	126 m <sup>3</sup> /s
Maximum pumping flow rate	102 m <sup>3</sup> /s
Average net generation drop	500 m
Maximum generation power	572 MW
Maximum pumping power	628 MW
Total length of galleries (including penstocks)	12.200 m
Earth moving	~2 Mm <sup>3</sup>



# SEU

**Efficient System for Users** or SEU (Sistemi Efficienti di Utenza) consist of **configurations** for photovoltaic systems or high-yield cogeneration solutions, with a maximum power of 20 MWe. They are managed by a sole producer, who is not the end user, with a **direct, private connection** to the consumption unit, and can be installed in **an area owned or used by the customer**.



## **CONTACTS**

### ***KREN Operations Ltd***

84 Georgiou A Avenue  
Flamingo Court, 4th Floor, Flat 43  
Germasogeia, 4048, Limassol, Cyprus  
Director  
Leon Vankan

### ***Eemaxx services srl***

Operations and Management  
Pontecagnano Faiano (SA) Cap 84098 - Italia  
Via Lucania SNC Centro Direzionale Il Granaio  
t +39 089 995 8402 - m+39 392 921 4682  
Director  
Francesco D'Alessandro  
f.dalessandro@eemaxx.it

### ***Eemaxx Engineering srl***

Engineering  
Bologna Cap 40138 - Italia  
Via Giuseppe Massarenti, 177/5  
t +39 051 4119692 - m+39 346 094 3336  
Director  
Giuseppe D'alessandro  
g.dalessandro@eemaxx.it

Eemaxx Group

**Thank you for your attention!**

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