

Ence Investor Day 2015
19th November 2015



- Biomass Energy in ENCE
- Why Biomass Energy? Why in ENCE?
- Where? Consolidate locally and push for a global presence
- Analysis of opportunities
- CAPEX and Development Plan
- Conclusions



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# **Biomass Energy in ENCE**

We are leaders in biomass energy generation (>200 MW\*), with decades of experience, strong development and engineering teams, and complete value chain expertise, in order to guarantee success.



#### Mérida 20MW



\* All biomass power (cogeneration and generation) included



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#### **Huelva 50MW**

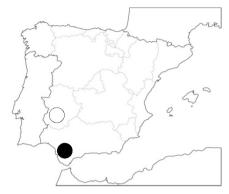


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# **Biomass Energy in ENCE**

We are leaders in biomass energy generation (>200 MW\*), with decades of experience, strong development and engineering teams, and complete value chain expertise, in order to guarantee success.



#### **Huelva 41MW**



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#### Why Biomass Energy?

- Sustainable modern energy for a modern world: by 2040, the world's <u>new power</u> requirement will be 7 200 GW\*, with a yearly sustained effort of \$740.000 M (total final of \$18,5 bn), increasing 35% annually from now. Nearly 60% of this new capacity will come from Renewable Energy.
- Biomass will play a large part in this. Why? Because ...
  - Biomass-to-power is the only renewable that is firm and dispatchable;
  - Biomass is abundant;
  - <u>Creates rural jobs</u> (>50x other RE's) and invigorates local economies, garnering strong support from governments, community ... and investors;
  - Beneficial to environment: CO<sub>2</sub> neutral, keeps forests and fields clean.
- ENCE has a proven track record in developing, building and operating biomass power plants.

\* Source IEA 2015



#### Why in ENCE?

- Makes sense: reducing cash cost of cellulose operations (in Spain), while continue strengthening our EBITDA with a stable source of income (will not accept market price variability);
- **Knowledge**: with an energy that is inherent and intimate to our expertise, a field where we are leading experts.
- Social responsibility to future generations to contribute to this revolution. ENCE is an expert in generating a firm, dispatchable, CO<sub>2</sub> neutral source of clean energy.



- Opportunity: ... and because there is a clear opportunity for ENCE.
  - High entry barrier for other companies.
  - Low-risk approach (non-recourse finance in stable markets).



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### Where? Consolidate locally and push for a global presence

#### Spain:

- Government has successfully addressed the energy deficit (from -€5 000 M to +€650 M)...
- ... which has created a **stable environment for energy development**.
- Spain still far from European Energy Directives regarding RE for 20% by 2020 (15,4% en 2013, little change today). 6 600 MW needed\*.
- ENCE has extremely deep knowledge of market. We are market leaders.
  There is clear opportunity in Spain, ENCE should lead it.
- Government to launch tender under RD 947/2015.





#### Where? Consolidate locally and push for a global presence

**International markets**: strong stable markets, with high energy needs, high energy prices, where biomass makes sense.

Return	High international IRR: 15% to 20% depending on country
Leverage	< 5x EBITDA
Country strength	Stable investment environment: Investment grade (BBB or higher)
Market size	>100MW (> 3 - 4 plants)
Biomass	Available (logistics), abundant, in-price, secure/diversified (% of energy crops + % agrowaste + % forestry)
Stability energy market	FiT / PPA that make sense, where tariffs are sustainable and not uncoupled from base energy generation price
Partner	Well-positioned, strong partner to help us navigate local reality. Helps de-risk equity investments, and creates opportunities.

Wide range of opportunities in carefully selected countries: Chile, Colombia or India.



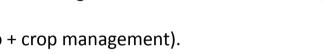
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### **Analysis of international opportunities: LATAM**

#### Chile

- 20 GW of installed power and growing. **High demand for renewables, backed by Governmental policies**. Country needs energy to continue growth.
- Solar and wind have been strongly developed, but **firm energy is needed** as a back up.
- Available biomass in the south of Santiago. Much still being burned in fields.
- Upcoming tender of 12,000 GWh.
- Partner: in negotiation (owners of forestry & agro + crop management).



#### Target IRR Chile ≥ 15%

#### Colombia

- Colombia's energy mix highly dependent on hydro (affected by El Niño phenomenon).
- Government is strongly pushing policy to increase non-hydro renewables (**Ley 1715**).
- We see a huge opportunity: in associated water from oil extraction operations (may be replicated around the world). Disposal + Energy + Environment + Brent = success equation.
- <u>Partner</u>: already in place with a large industrial group.

**Target IRR Colombia ≥ 19.3%** 



#### **Analysis of international opportunities: ASIA**

#### India:

- India will account for a major portion of the growth in global energy to 2040.
- India has aggressively pushed renewables, and is increasing its targets.
- Opportunity in agro waste sector (especially sugar industry, where failing market pushes mills to complement sugar production with energy, ethanol). India is the 2<sup>nd</sup> largest sugar producer in the world.
- **Bagasse and straw** to cogenerate (steam + energy to mill, excess to grid). 4GW already in place, 7 GW available, to be developed.
- Partner: ongoing (interest from strong local parties).

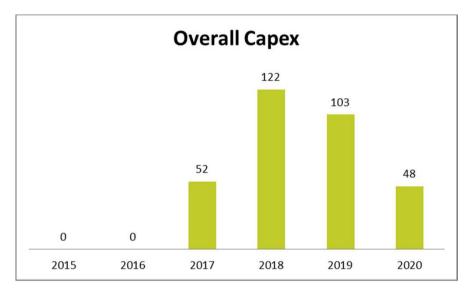
**Target IRR India ≥ 20.26%** 

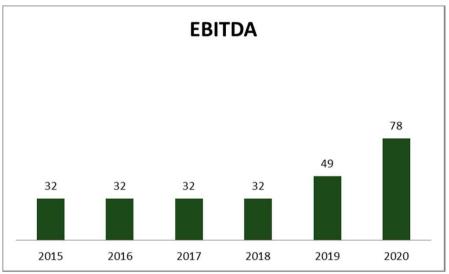


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#### **CAPEX and Development Plan**





- Development of Spain and International projects ongoing.
- Construction to start in 2 years time.
- A €325M investment will materialize in additional €78M annual EBITDA by 2020.



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#### **Conclusions**

- We see **biomass developing strongly** over the next 5 years, and ENCE stands out in the field with deep experience in the complete value chain, from fuel management to kWh sales.
- Biomass is an **attractive business**, that generates attractive returns for the company. A €325M investment will materialize in additional €78M annual EBITDA by 2020.
- Strategy: consolidate locally, and sensibly push globally.
- We are working in Spain and abroad in several high-value projects; with **strong partners** that help us **de-risk investments**, while creating **opportunities**.





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