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WE PROVIDE OUR CUSTOMERS WITH SOLUTIONS TO **REDUCE CO₂ EMISSIONS** BY REPLACING FOSSIL FUELS WITH SUSTAINABLE AND RENEWABLE SOURCES. OUR CUSTOMERS CAN FOCUS ON THEIR CORE BUSINESS WHILE WE PROVIDE SUSTAINABLE ENERGY WITH **LONG TERM ENERGY SUPPLY AGREEMENTS**.

**WE BUILD, OWN
& OPERATE**



ELECTRICITY



COOLING

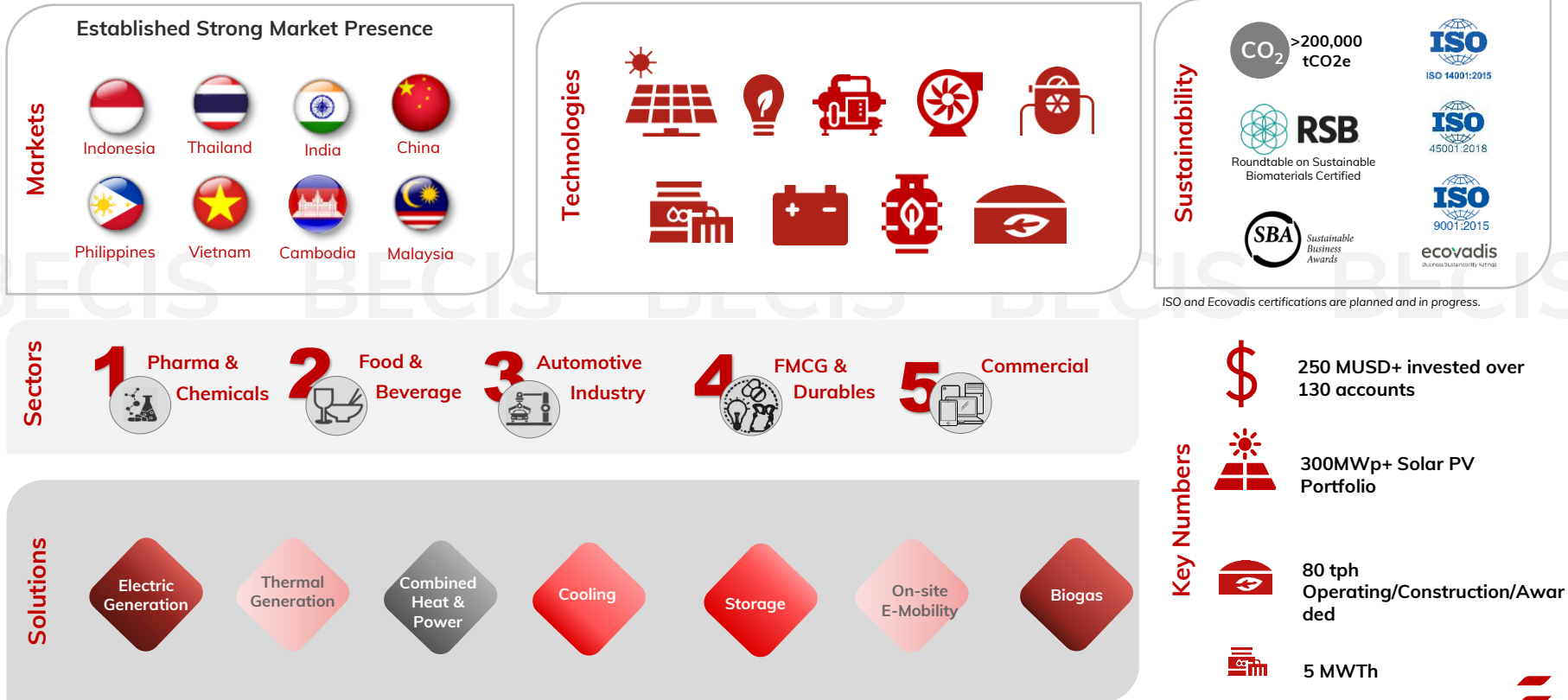


HEATING

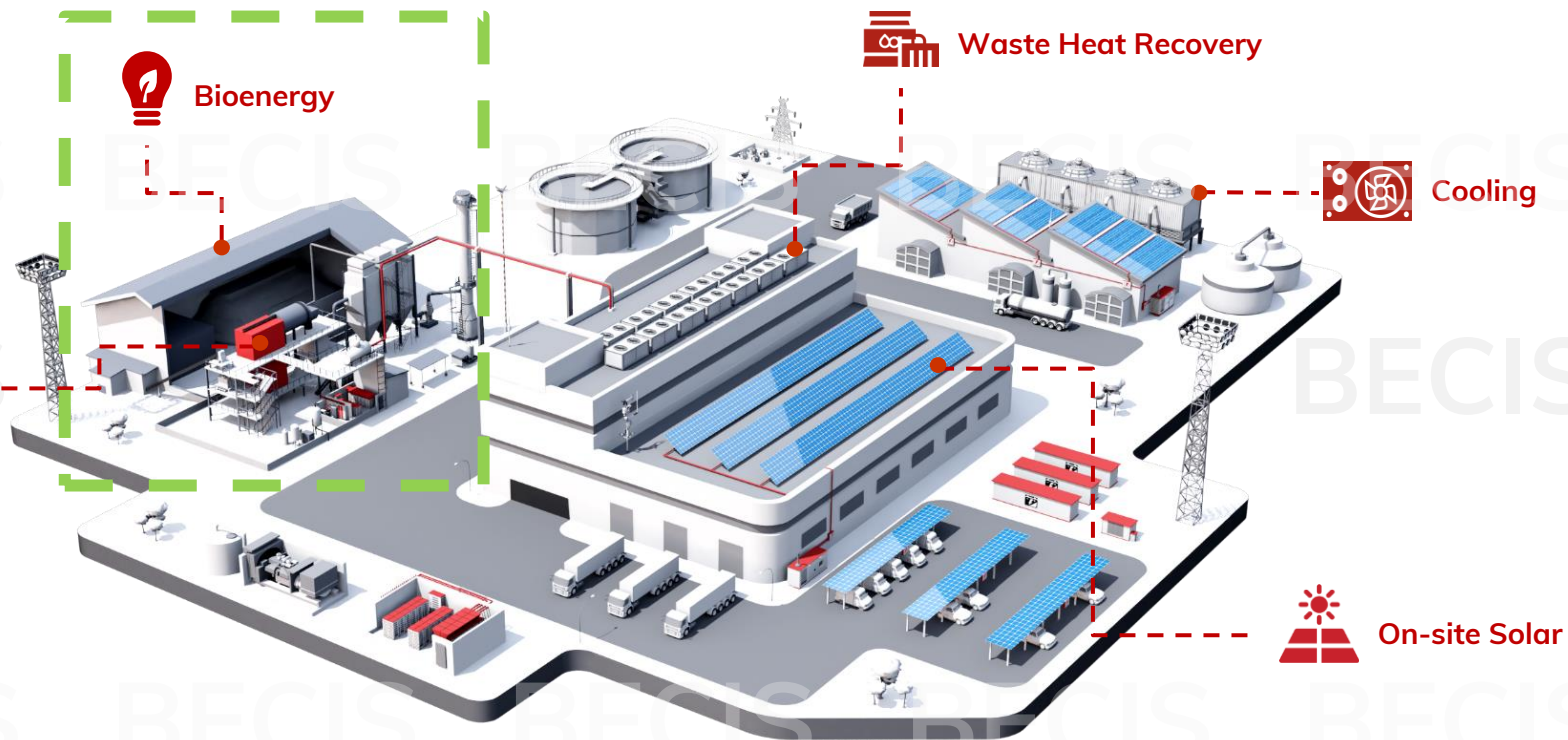


BECIS Solution Offering: Energy as a Service (EaaS)

BECIS aims to be a global leader and a trusted partner providing energy solutions that enable our customers to achieve their sustainability goals



BECIS Solution Offering: Energy as a Service







EXTENDED SOLUTIONS

-  Air Compressor
-  Heat Pump
-  Energy Analytics

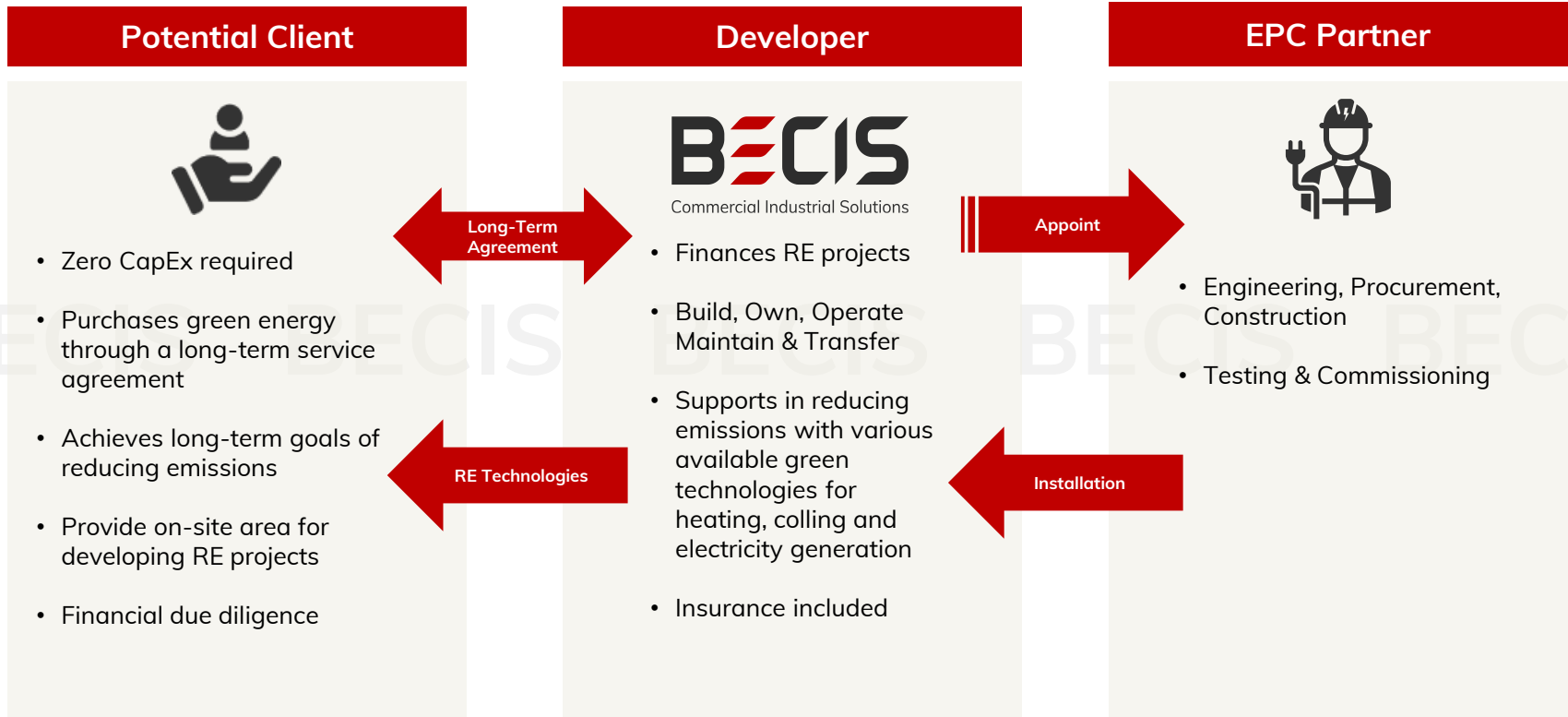


Key Benefits at a Glance

Solutions	Solar	Battery & Solar	Bioenergy	Cooling	Heat Pump & Heat Recovery	Compressed Air
GHG Savings	20-50%		60-90%	10-50%	10-50%	10-30%
Financial Savings	10-50%		10-40%	10-30%	10-30%	10-20%
Key Benefits	 Decrease Energy Cost		 Meet Sustainability Targets	 Energy Supply Security		 Value Increasing



Build-Own-Operate-Transfer Business Model



Biomass Characteristics

Following are important for solid fuels for combustion/thermal processing :

- ✓ Particle size and size distribution
- ✓ Bulk density
- ✓ Moisture content
- ✓ Calorific value



Rice Straw



Rice Husk



Sugarcane Leaves



Wood Log



Wood Chips



Saw Dust



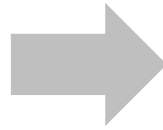
Illustration ; Energy Density Differences of the same Weight Material by Different Product

Energy density is another common measure of the possible potential of a fuel. Energy density is the heating value per unit volume. It is measured as MJ/kg per cubic meters

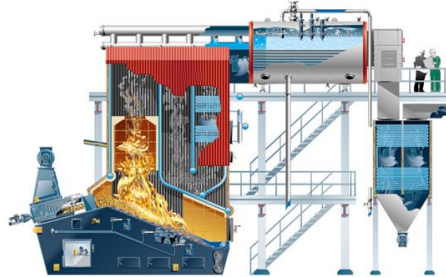


Circular Economy Benefits & Technical Flexibilities with Bioenergy

SUSTAINBLY CERTIFIED
BIOMASS



BIOMASS ENERGY SYSTEM



CLIENT'S DIRECT THERMAL
CONSUMPTION



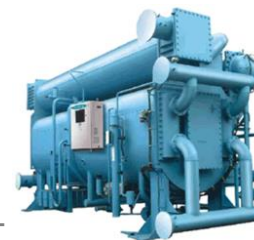
HEAT

STEAM TURBINE

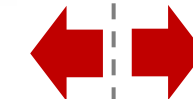


POWER

ABSORPTION CHILLER



COOLING

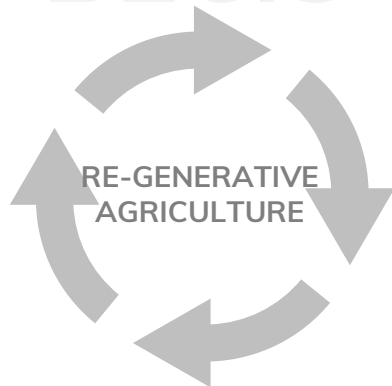


BECIS

CLIENT



ORGANIC
FERTILIZER



RE-GENERATIVE
AGRICULTURE

COMMUNITY
ENGAGEMENT



BECIS Bioenergy Projects Success Story in Indonesia



East Java, 25 T



Central Java 8 T



West Java 8 T



West Java 10 T



East Java 10 T



Banten 6 T

Industrial Thermal Energy Consumers



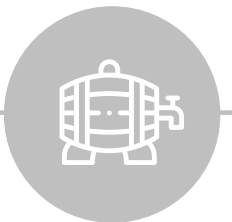
DAIRY

Steam for pasteurizing process (pasteurizer)
Hot water for drying process (spray dryer)



TYRE

Steam for vulcanizing process



BREWERY

Steam in the brew kettle
Hot water for bottle washers



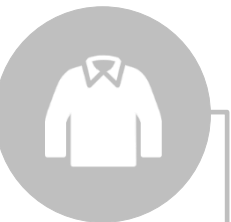
SOLUBLE COFFEE

Steam for extraction process (evaporator)
Hot water for drying process (spray dryer)



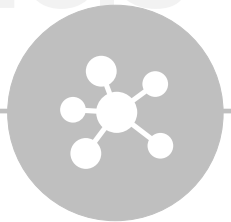
EDIBLE OIL

Steam for sterilization process (sterilizer)



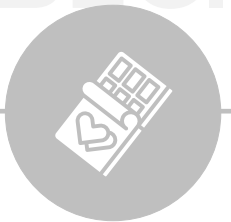
TEXTILE

Steam for dyeing and bleaching process
(not applicable if only spinning, knitting, weaving)



SUGAR

Steam for crystallization process (evaporator)



CONFECTIONARY

Hot water for vessel jacketing (chocolate and candy producers)



PERSONAL CARE

Steam for drying process (tissue or paper producers, detergent producers)



FOOD & BEVERAGE

Steam for cooking (food producers)
Steam for syrup concentrates (beverage producers)



ANIMAL FEED






Steam for the pelletizer
(not so much if it is loose feed)



RUBBER GLOVES


Hot water for glove dipping lines
(some plants uses steam or thermal oil)

Bioenergy Value Proposition

-  1. Reduce agricultural waste & pollution
-  2. Energy cost lower than fossil fuel
-  3. Lowers CO₂ emission by 80 %
-  4. Employment opportunities in rural Indonesia
-  5. Case example of circular economy



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Thank You!

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