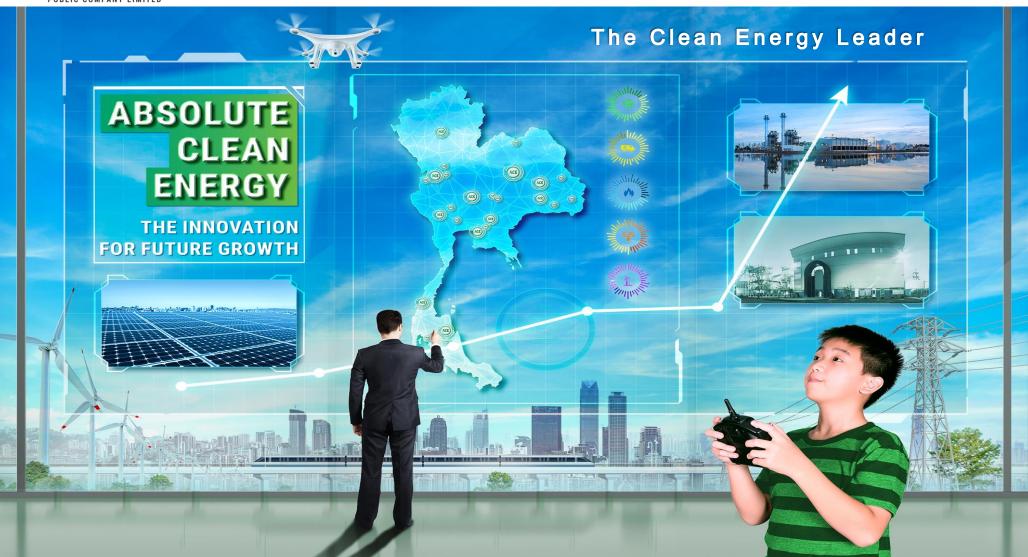
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# **ACE** <u>Industry Overview and Growth Potential</u>



24 Strictly Private & Confidential

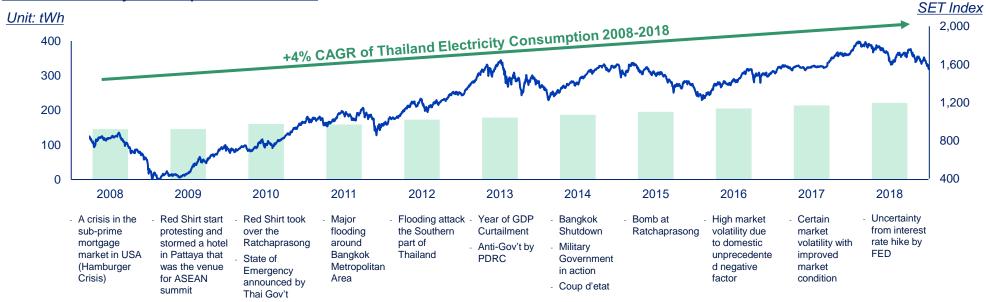
# **Electricity Consumption, Resilience Growth Throughout Country Crisis**



#### Electricity consumption is gradually growing amid the country's instability



#### **Thailand Electricity Consumption VS SET index**



25 Source: Global Energy Statistical 2018

# **Global and Domestic Trend to Support Renewable Energy**



**Paris Agreement:** Around 88% of the world have ratified or acceded to the Agreement. Thailand government has ratified the agreement.



Government around the world is collaborating to aim for net zero carbon by 2050. World Zero Carbon:

Sample Approach from **Countries and** States:





Status: In law



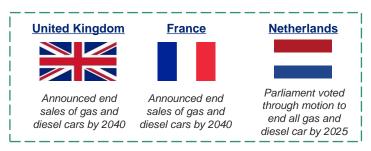
California



Target Date: 2045 Status: Executive Order Target Date: 2050 Status: In law

#### **EV** Revolution:

EV trend is coming with 1) Fossil fuel vehicle bans 2) Renowned automakers are making promises on EV











Plans to sell only 100% EV or hybrid/electric onward

# Total Societal Impact (TSI) and Environmental, Social & Governance (ESG)



#### **Biomass Power Plant**

**Contribute to the Paris Agreement** 



Decreasing greenhouse gas emission.

**Future Potential** 



To provide base-load to grid in place of conventional energy

**Solves PM 2.5 problem at the root** 



- Saves government's spending on putting down forest fires and farm fires
- Saves government's spending on PM 2.5 related health problems such as respiratory complications, masks distributions and water spraying in cities, from PM 2.5 particle.
- Prevents economic loss from the decrease in tourism due to PM 2.5 problems.

Positive Economic and Societal Impact



- Additional income to farmers
- Stabilize income for farmers under market uncertainty → reduce empty subsidies that the government has to give out
- Distribution of revenue to grassroots: Shift from LNG imports to purchasing fuel from individual Thai farmers

GDP Contribution/1



THB 1.8 Billion / year / 9.9 MW biomass power plant

#### **Municipal Solid Waste (MSW) Power Plant**

**Contribute to the Paris Agreement** 



Decreasing greenhouse gas emission.

**Future Potential** 



To provide base-load to grid in place of conventional energy

**Solves MSW mountain problems** 

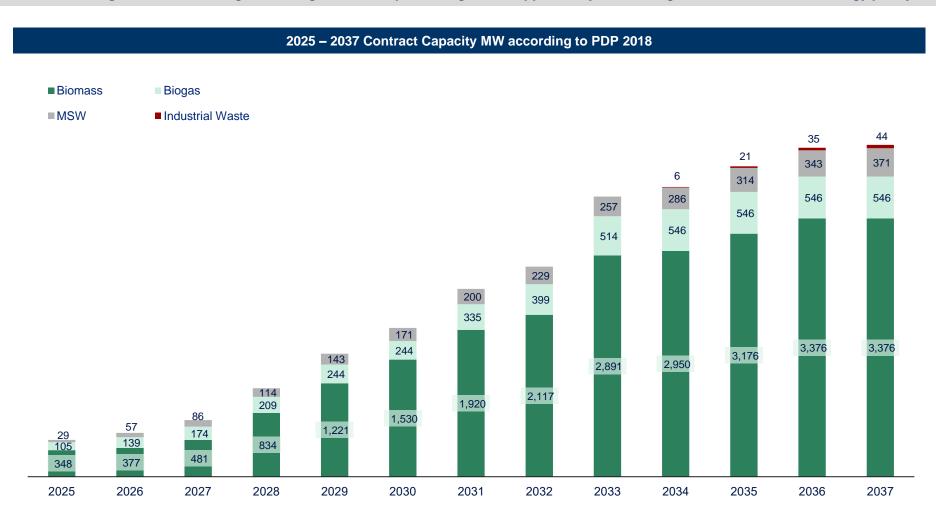


Save healthcare and environmental spending for the government from problems caused by MSW in landfills

## **Future Growth**



Continuous growth with existing PPA along with future potential growth supported by favorable government renewable energy policy



Source: Power Development Plan 2018

# ACE's 3 Core Value Represent Competitive Advantage to Secure New PPAs



#### R&D

✓ Fast growing and high yield fuel crops and fuel trees

√ New Biomass Fuel Types

✓ Machineries and improved design

# **Operational Expertise & Economy of Scale**

- ✓ Proven track record in building and running a lot of successful powerplants projects
- ✓ Continuous operational improvements
- Economy of scale
- Strong feedstock purchasing team
- √ Large and efficient logistic and supply chain networks (over 40 years in the making)

# Advance Technology

R&D Innovation

and continuous

Improvement

**Operational Expertise** and **Economy of** Scale

secure 1000 Sustainability

Key

Competitive

Advantages to

Strong Relationship with Key Stakeholders

Knowhow

#### **Sustainability**

- Feedstock security
- Financial security
- ✓ Community support

### **Advance Technology**

- ✓ Lower plant heat rate = decrease fuel consumption by up to 30%
- ✓ Artificial Intelligence, IoTs and Big data for cost control and operations improvement
- ✓ Environmentally friendly

#### **Knowhow**

- Low O&M cost
- Strong & capable team of professionals ready to handle new projects

## Relationship with Key Stakeholder

- √ Major shareholders' plantation business can support long-term feedstock development plan
- ✓ Strong & long-term relationship with communities and farmers
- ✓ Strong relationship with lender

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