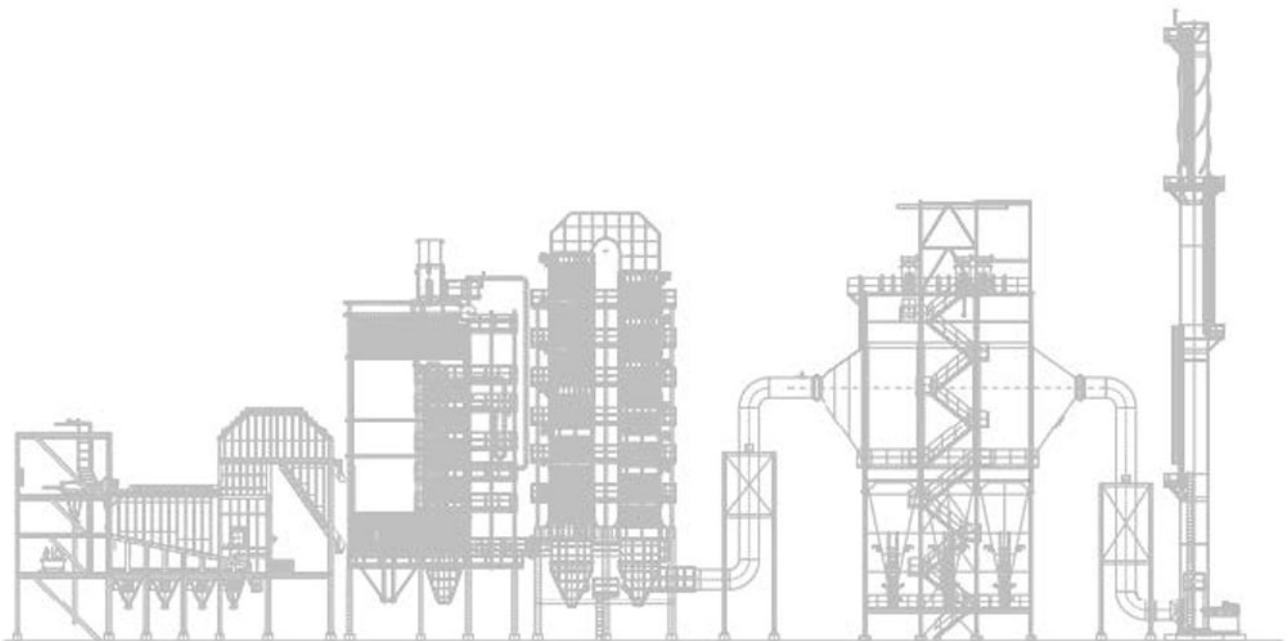


Jun 2025

## List of References

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For any further information and support,  
please feel welcome to contact us directly:  
[sales@de.lawipower.com](mailto:sales@de.lawipower.com)

**Renewable** Power Plant Technology

## 27.5 MWth Industrial Waste Power Plant, Busan | South Korea - LAWI EtaComb® 300

**Scheduled to be commissioned in: July 2025**

**Design Fuel:** Industrial Waste, SRF

**Location:** Busan | South Korea

### Technical Project Data:

Firing Capacity: 27.5 MWth

BMCR: 37.5 tph

Steam Parameter: 40 bar(a) | 300°C

Plant Type: Power Generation

### LAWI Scope of Work:

- **Detail Design & Engineering:**  
*LAWI EtaPlant® WtE Boiler Island*
- **EP Supply:**
  - *LAWI EtaComb® 300 WtE*
  - Combustion System Components
  - Water-Cooled Moving Grate
  - Fuel Dosing System

## 16.6 MWth SRF Power Plant, Yeoncheon | South Korea - LAWI EtaComb® 200

**Commissioned since: June 2022**

**Design Fuel:** Industrial Waste, SRF

**Location:** Yeoncheon | South Korea

### Technical Project Data:

Firing Capacity: 16.6 MWth

BMCR: 20 tph

Steam Parameter: 19 bar(a) | 211°C

Plant Type: Heat Generation

Plant Capacity: 12.3 MWth

### LAWI Scope of Work:

- **Detail Design & Engineering:**  
*LAWI EtaPlant® WtE Boiler Island*
- **EP Supply:**
  - *LAWI EtaComb® 200 WtE* Combustion System
  - Water-Cooled Moving Grate
  - *LAWI EtaLogic®* Control & Optimization System (PLC)

## 9.9 MWel CHP Rice Husk Power Plant, Kamphaeng Phet | Thailand - LAWI EtaPlant®

**Commissionend since: April 2022**

**Design Fuel:** Rice Husk, Wood Chip

**Location:** Kamphaeng Phet | Thailand

### Technical Project Data:

Firing Capacity: 75.5 MWth

BMCR: 85 tph

Steam Parameter: 66 bar(a) | 480°C

Plant Type: Heat & Power Generation

Plant Capacity: 9.9 MWel

### LAWI Scope of Work:

- **EP Supply: *LAWI EtaPlant®* Boiler Island:**

- *LAWI EtaComb®* 800 Combustion System
- 4-Lane Fuel Dosing System
- Moving Grates
- Steam Boiler & Feed Water System
- Ash Handling & Ash Storage System
- *LAWI EtaLogic®* Control & Optimization System

## 9.9 MWel Wood Chip Power Plant, Yala II | Thailand - LAWI EtaComb® Combustion Equipment

**Commissionend since: January 2021**

**Design Fuel:** Wood Chip

**Location:** Yala | Thailand

### Technical Project Data:

Firing Capacity: 40 MWth

BMCR: 45 tph

Steam Parameter: 90 bar(a) | 515°C

Plant Type: Power Generation

Plant Capacity: 9.9 MWel

### LAWI Scope of Work:

- **EP Supply:**

- Moving Grate
- Fuel Dosing System
- Hydraulic System & Combustion Instruments

## 9.9 MWel Biomass Power Plant, Yala I | Thailand - LAWI EtaComb® Combustion Equipment

**Commissionend since: December 2020**

**Design Fuel:** Wood Chip

**Location:** Yala | Thailand

### Technical Project Data:

Firing Capacity: 40 MWth

BMCR: 45 tph

Steam Parameter: 90 bar(a) | 515°C

Plant Type: Power Generation

Plant Capacity: 9.9 MWel

### LAWI Scope of Work:

- **EP Supply:**
  - Moving Grate
  - Fuel Dosing System
  - Hydraulic System & Combustion Instruments

## 28 MWel Multi Fuel Biomass Power Plant, Suphan Buri | Thailand - LAWI EtaComb® 1000

**Commissionend since: April 2020**

**Design Fuel:** Rice Husk, Wood Chip, Bagasse, Wood Bark

**Location:** Suphan Buri | Thailand

### Technical Project Data:

Firing Capacity: 93.7 MWth

BMCR: 115 tph

Steam Parameter: 68 bar(a) | 485°C

Plant Type: Power Generation

Plant Capacity: 28 MWel

### LAWI Scope of Work:

- **Overall Power Plant Basic Engineering**
- **Owner's Consultant (Tech.)**
- **EP Supply: LAWI EtaComb® 1000 Combustion System**
  - Boxer Type 6 Lane adiabatic Multi-Fuel Combustion with Post-Combustion
  - 2x 3-Lane Fuel Dosing System
  - Moving Grate
  - Air System with Recirculation Gas
  - LAWI EtaLogic® Control & Optimization System

## 7 MWel RDF Power Plant, Ayutthaya | Thailand - LAWI EtaPlant®

**Commissionend since: October 2019**

**Design Fuel:** RDF from Industrial Waste

**Location:** Ayutthaya | Thailand

### Technical Project Data:

Firing Capacity: 30 MWth

BMCR: 35 tph

Steam Parameter: 53 bar(a) | 450°C

Plant Type: Power Generation

Plant Capacity: 7 MWel

### LAWI Scope of Work:

- Overall Power Plant Basic Engineering
- EPC Supply: *LAWI EtaPlant® WtE Boiler Island*:
  - *LAWI EtaComb®* 300 Combustion System
  - Water Cooled Moving Grate
  - Steam Boiler & Feed Water System
  - Ash Handling & Ash Storage System
  - *LAWI EtaLogic®* Control & Optimization System

## 9.9 MWel Multi Fuel Power Plant, Nakhon Ratchasima | Thailand - LAWI EtaComb® 400

**Commissionend since: June 2019**

**Design Fuel:** Eucalyptus Bark, Wood Chip (Supplemental:  
Bagasse, Cassava, EFB)

**Location:** Nakhon Ratchasima | Thailand

### Technical Project Data:

Firing Capacity: 37 MWth

BMCR: 43 tph

Steam Parameter: 69 bar(a) | 485°C

Plant Type: Power Generation

Plant Capacity: 9.9 MWel

### LAWI Scope of Work:

- Overall Power Plant Basic Engineering
- EPC Supply: *LAWI EtaComb® 400 Combustion System*
  - Adiabatic Multi-Fuel Combustion with Post-Combustion
  - 3-Lane Fuel Dosing System
  - Moving Grate
  - Air System with Recirculation Gas

## 8 MWel Biomass & Coal Co-Firing Power Plant, Trincomalee | Sri Lanka - LAWI EtaComb® 350

**Commissionend since: October 2017**

**Design Fuel:** Rice Husk, Gliricidia, Coal

**Location:** Trincomalee | Sri Lanka

### Technical Project Data:

Firing Capacity: 32 MWth

BMCR: 36 tph

Steam Parameter: 65.7 bar(a) | 485°C

Plant Type: Power Generation

Plant Capacity: 8 MWel

### LAWI Scope of Work:

- Overall Power Plant Basic Engineering
- Owner's Consultant (Tech.)
- EP Supply: *LAWI EtaComb® 350 Combustion System*
  - adiabatic Multi-Fuel Combustion with Post-Combustion
  - Air System with Recirculation Gas
  - Fuel Conveying System
  - Ash Handling System

## 9.5 MWel Multi-Fuel Biomass Power Plant, Songkhla | Thailand - LAWI EtaPlant®

**Commissionend since: August 2017**

**Design Fuel:** Para Wood, Para Root

**Location:** Songkhla | Thailand

### Technical Project Data:

Firing Capacity: 40 MWth

BMCR: 45 tph

Steam Parameter: 68 bar(a) | 485°C

Plant Type: Power Generation

Plant Capacity: 9.5 MWel

### LAWI Scope of Work:

- Overall Power Plant EPC - *LAWI EtaPlant® Turn-Key*
- EPC Supply of complete Power Plant:
  - Buildings & Civil Works
  - Fuel Handling System; Ash Handling & Storage System
  - *LAWI EtaComb® 400 Combustion System*
  - Flue Gas Treatment System (ESP)
  - Turbine and Generator System
  - DCS & *LAWI EtaLogic® Optimization System*

## 12 MWel Gliricidia Power Plant, Viti Levu | Fiji - LAWI EtaPlant®

**Commissionend since: August 2017**

**Design Fuel:** Gliricidia

**Location:** Nabou of Viti Levu | Fiji

### Technical Project Data:

Firing Capacity: 51.2 MWth

BMCR: 57 tph

Steam Parameter: 36.3 bar(a) | 440 °C

Plant Type: Power Generation

Plant Capacity: 12 MWel

### LAWI Scope of Work:

- **EP Supply: *LAWI EtaPlant®* Boiler Island:**
  - *LAWI EtaComb®* 500 Combustion System
  - Steam Boiler & Feed Water System
  - Flue Gas Treatment System
  - Fuel Handling System
  - Ash Handling System
  - DCS & *LAWI EtaLogic®* Optimization System

## 9.4 MWel RDF Power Plant, Saraburi | Thailand - LAWI EtaPlant® WtE Boiler Island

**Commissionend since: June 2017**

**Design Fuel:** RDF from MSW, Industrial Waste and Landfill Waste

**Location:** Saraburi | Thailand

### Technical Project Data:

Firing Capacity: 43 MWth

BMCR: 50 tph

Steam Parameter: 53 bar(a) | 450°C

Plant Type: Power Generation

Plant Capacity: 9.4 MWel

### LAWI Scope of Work:

- **EPC Supply: *LAWI EtaPlant®* WtE Boiler Island:**
  - *LAWI EtaComb®* 450 Combustion System incl. Water Cooled Moving Grates
  - Steam Boiler & Feed Water System
  - Air System & Stack
  - Ash Handling & Ash Storage System

## 11 MWel Multi-Fuel Biomass Power Plant, Kamphaeng Phet | Thailand - LAWI EtaComb® 400

**Commissionend since: May 2017**

**Design Fuel:** Rice Husk, Eucalyptus Bark, Wood Chip

**Location:** Kamphaeng Phet | Thailand

### Technical Project Data:

Firing Capacity: 40.5 MWth

BMCR: 45 tph

Steam Parameter: 68 bar(a) | 490°C

Plant Type: Power Generation

Plant Capacity: 11 MWel

### LAWI Scope of Work:

- **EPC Supply: *LAWI EtaComb® 400* Combustion System**
  - Adiabatic Multi-Fuel Combustion with Post-Combustion
  - 3-Lane Fuel Dosing System
  - Moving Grate
  - Air System with Recirculation Gas

## 9.9 MWel EFB Power Plant, Nakhon Si Thammarat | Thailand - LAWI EtaComb® 400

**Commissionend since: October 2016**

**Design Fuel:** Para Wood, EFB, Palm Frond

**Location:** Nakhon Si Thammarat | Thailand

### Technical Project Data:

Firing Capacity: 41 MWth

BMCR: 45 tph

Steam Parameter: 67 bar(a) | 485°C

Plant Type: Power Generation

Plant Capacity: 9.9 MWel

### LAWI Scope of Work:

- **EP Supply: *LAWI EtaComb® 400* Combustion System**
  - Multi-Fuel 3-Lane adiabatic Combustion Chamber
  - Fuel Dosing System
  - Moving Grate
  - Air System with Recirculation Gas
  - Combustion Instruments

**WINNER OF THAILAND ENERGY AWARD 2019**

**WINNER OF ASEAN ENERGY AWARD 2019**



## 9.9 MWel Biomass Power Plant, Nakhon Sawan | Thailand - LAWI EtaComb® 600 - WINNER OF THAILAND ENERGY AWARD 2018

**Commissionend since: September 2015**

**Design Fuel:** Rice Husk, Wood Chip

**Location:** Nakhon Sawan | Thailand

### Technical Project Data:

Firing Capacity: 60 MWth

BMCR: 65 tph

Steam Parameter: 68 bar(a) | 485°C

Plant Type: Power Generation

Plant Capacity: 9.9 MWel

### LAWI Scope of Work:

- Overall Power Plant Basic Engineering
- EP Supply: *LAWI EtaComb® 600 Combustion System*
  - Multi-Fuel 3-Lane adiabatic Combustion Chamber
  - Fuel Dosing System
  - Moving Grate
  - Air System with Recirculation Gas

WINNER OF THAILAND ENERGY AWARD 2018

## 9.9 MWel Biomass Power Plant, Buriram | Thailand - LAWI EtaComb® 450

**Commissionend since: June 2015**

**Design Fuel:** Eucalyptus Bark, Wood Chip

**Location:** Buriram | Thailand

### Technical Project Data:

Firing Capacity: 41 MWth

BMCR: 45 tph

Steam Parameter: 67 bar(a) | 485°C

Plant Type: Power Generation

Plant Capacity: 9.9 MWel

### LAWI Scope of Work:

- Overall Power Plant Basic Engineering
- Owner's Consultant (Tech.)
- EPC Supply: *LAWI EtaComb® 450 Combustion System*
  - Adiabatic Combustion with Post-Combustion Chamber
  - Moving Grate
  - Fuel Dosing System
  - Air System with Recirculation Gas
  - DCS Control System (Programming)
  - Steam Boiler & Feed Water System (Installation & Commissioning)

## 9.9 MWel High Moisture Biomass Power Plant, Sirindhorn | Thailand - LAWI EtaComb® 400

**Commissionend since: May 2015**

**Design Fuel:** Eucalyptus Bark, Wood Chip

**Location:** Sirindhorn, Ubon Ratchathani | Thailand

### Technical Project Data:

Firing Capacity: 39.5 MWth

BMCR: 45 tph

Steam Parameter: 68 bar(a) | 485°C

Plant Type: Power Generation

Plant Capacity: 9.9 MWel

### LAWI Scope of Work:

- Overall Power Plant Basic Engineering
- EPC Supply: *LAWI EtaComb® 400* Combustion System
  - Multi-Fuel 3-Lane adiabatic Combustion Chamber
  - Fuel Dosing System
  - Moving Grate
  - Air System with Recirculation Gas

## 9.9 MWel Multi-Fuel Power Plant, Phichit | Thailand - LAWI EtaComb® 400 - WINNER OF THAILAND ENERGY AWARD 2018

**Commissionend since: April 2015**

**Design Fuel:** Rice Husk, Eucalyptus Bark

**Location:** Phichit | Thailand

### Technical Project Data:

Firing Capacity: 40.5 MWth

BMCR: 45 tph

Steam Parameter: 68 bar(a) | 485°C

Plant Type: Power Generation

Plant Capacity: 9.9 MWel

### LAWI Scope of Work:

- Overall Power Plant Basic Engineering
- EPC Supply: *LAWI EtaComb® 400* Combustion System
  - Multi-Fuel 3-Lane adiabatic Combustion Chamber
  - Fuel Dosing System
  - Moving Grate
  - Air System with Recirculation Gas
  - Fuel Conveying System

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## 9.9 MWel Eucalyptus Bark Power Plant, Thoen | Thailand - LAWI EtaComb® 400

**Commissionend since:** July 2014

**Design Fuel:** Eucalyptus Bark, Wood Chip

**Location:** Thoen, Lampang | Thailand

### Technical Project Data:

Firing Capacity: 39.5 MWth

BMCR: 45 tph

Steam Parameter: 68 bar(a) | 485°C

Plant Type: Power Generation

Plant Capacity: 9.9 MWel

### LAWI Scope of Work:

- Overall Power Plant Basic Engineering
- EPC Supply: *LAWI EtaComb® 400 Combustion System*
  - Multi-Fuel 3-Lane adiabatic Combustion Chamber
  - Fuel Dosing System
  - Moving Grate
  - Air System with Recirculation Gas

## 6 MWel Gliricidia Power Plant, Mahiyangana | Sri Lanka - LAWI EtaComb® 300

**Commissionend since:** June 2014

**Design Fuel:** Gliricidia

**Location:** Mahiyangana | Sri Lanka

### Technical Project Data:

Firing Capacity: 27.5 MWth

BMCR: 31.5 tph

Steam Parameter: 68 bar(a) | 485°C

Plant Type: Power Generation

Plant Capacity: 6 MWel

### LAWI Scope of Work:

- Overall Power Plant Basic Engineering
- Owner's Consultant (Tech.)
- EP Supply: *LAWI EtaComb® 300 Combustion System*
  - adiabatic Multi-Fuel Combustion with Post-Combustion
  - Air System with Recirculation Gas
  - Fuel Conveying System
  - Ash Handling System

## 9.9 MWel Multi Fuel Power Plant, Si Chiang Mai | Thailand - LAWI EtaComb® 400

**Commissionend since: December 2013**

**Design Fuel:** Eucalyptus Bark, Wood Chip

**Location:** Si Chiang Mai, Nong Khai | Thailand

### Technical Project Data:

Firing Capacity: 39.5 MWth

BMCR: 45 tph

Steam Parameter: 68 bar(a) | 485°C

Plant Type: Power Generation

Plant Capacity: 9.9 MWel

### LAWI Scope of Work:

- Overall Power Plant Basic Engineering
- EPC Supply: *LAWI EtaComb® 400 Combustion System*:
  - Multi-Fuel High Moisture 3-Lane adiabatic Combustion Chamber with two-stage Air-Preheating
  - Fuel Dosing System
  - Moving Grate
  - Air System with Recirculation Gas

## 9.9 MWel Eucalyptus Bark Power Plant, Buriram | Thailand - LAWI EtaComb® 450

**Commissionend since: November 2013**

**Design Fuel:** Eucalyptus Bark, Wood Chip

**Location:** Buriram | Thailand

### Technical Project Data:

Firing Capacity: 41 MWth

BMCR: 45 tph

Steam Parameter: 68 bar(a) | 485°C

Plant Type: Power Generation

Plant Capacity: 9.9 MWel

### LAWI Scope of Work:

- EPC Supply: *LAWI EtaComb® 400 Combustion System*
  - Adiabatic Combustion with Post-Combustion Chamber
  - Moving Grate
  - Fuel Dosing System
  - Air System with Recirculation Gas

## 9.9 MWel Wood Chip Power Plant, Kalasin | Thailand - LAWI EtaComb® 400

**Commissionend since: November 2013**

**Design Fuel:** Wood Chip, Rice Husk

**Location:** Kalasin | Thailand

**Technical Project Data:**

Firing Capacity: 40.5 MWth

BMCR: 45 tph

Steam Parameter: 67 bar(a) | 485°C

Plant Type: Power Generation

Plant Capacity: 9.9 MWel

**LAWI Scope of Work:**

- **Combustion System Revamping of existing Power Plant for Efficiency Increase**
- **EPC Supply: *LAWI EtaComb® 400* Combustion System:**
  - Multi-Fuel 3-Lane adiabatic Combustion Chamber
  - Fuel Dosing System
  - Moving Grate
  - Air System with Recirculation Gas
  - Integration of *LAWI EtaComb®* in existing Waste Heat Boiler

## 9.9 MWel Biomass Power Plant, Phon Thong | Thailand - LAWI EtaComb® 400

**Commissionend since: June 2013**

**Design Fuel:** Eucalyptus Bark, Wood Chip

**Location:** Phon Thong, Roi Et | Thailand

**Technical Project Data:**

Firing Capacity: 39.5 MWth

BMCR: 45 tph

Steam Parameter: 68 bar(a) | 485°C

Plant Type: Power Generation

Plant Capacity: 9.9 MWel

**LAWI Scope of Work:**

- **Overall Power Plant Basic Engineering**
- **EPC Supply: *LAWI EtaComb® 400* Combustion System**
  - Multi-Fuel High Moisture 3-Lane adiabatic Combustion Chamber with two-stage Air-Preheating
  - Fuel Dosing System
  - Moving Grate
  - Air System with Recirculation Gas

## 20 MWel Multi Fuel Power Plant, Khon Kaen | Thailand - LAWI EtaComb® 400

**Commissionend since: April 2013**

**Design Fuel:** Wood Chip, Rice Husk

**Location:** Khon Kaen | Thailand

**Technical Project Data:**

Firing Capacity: 2x 40 MWth

BMCR: 88 tph

Steam Parameter: 67 bar(a) | 485°C

Plant Type: Power Generation

Plant Capacity: 2x 9.9 MWel

**LAWI Scope of Work:**

- Overall Power Plant Basic Engineering and Consultancy
- EP Supply: *LAWI EtaComb® 400* Combustion System
  - Twin Type 2x 3-Lane adiabatic Multi-Fuel Combustion with Post-Combustion
  - 2x 3-Lane Fuel Dosing System
  - Air System with Recirculation Gas
  - *LAWI EtaLogic®* Control & Optimization System

## 9.9 MWel Para Wood Power Plant, Thung Song | Thailand - LAWI EtaComb® 400 - WINNER OF THAILAND ENERGY AWARD 2018

**Commissionend since: March 2013**

**Design Fuel:** Para Wood

**Location:** Thung Song, Nakhon Si Thammarat | Thailand

**Technical Project Data:**

Firing Capacity: 40 MWth

BMCR: 45 tph

Steam Parameter: 67 bar(a) | 485°C

Plant Type: Power Generation

Plant Capacity: 9.9 MWel

**LAWI Scope of Work:**

- EP Supply: *LAWI EtaComb® 400* Combustion System
  - Adiabatic Combustion with Post-Combustion
  - Fuel Dosing System
  - Moving Grate
  - Air System with Recirculation Gas
  - DCS Control System (Programming)

**WINNER OF THAILAND ENERGY AWARD 2018**

## 9.9 MWel Eucalyptus Bark Power Plant, Chok Chai | Thailand - LAWI EtaComb® 400

**Commissionend since: January 2013**

**Design Fuel:** Eucalyptus Bark, Wood Chip

**Location:** Chok Chai | Thailand

### Technical Project Data:

Firing Capacity: 39.5 MWth

BMCR: 45 tph

Steam Parameter: 68 bar(a) | 485°C

Plant Type: Power Generation

Plant Capacity: 9.9 MWel

### LAWI Scope of Work:

- Overall Power Plant Basic Engineering
- EPC Supply: *LAWI EtaComb® 400 Combustion System*
  - Multi-Fuel High Moisture 3-Lane adiabatic Combustion Chamber with two-stage Air-Preheating
  - Fuel Dosing System
  - Moving Grate
  - Air System with Recirculation Gas

## 7.5 MWel Eucalyptus Bark Power Plant, Kamphaeng Phet | Thailand - LAWI EtaComb® 300

**Commissionend since: December 2012**

**Design Fuel:** Wood Chip, Eucalyptus Bark

**Location:** Kamphaeng Phet | Thailand

### Technical Project Data:

Firing Capacity: 30 MWth

BMCR: 33 tph

Steam Parameter: 66 bar(a) | 485°C

Plant Type: Power Generation

Plant Capacity: 7.5 MWel

### LAWI Scope of Work:

- Overall Power Plant Detail Engineering
- EPC Supply (Consortium partner): Complete Power Plant
  - Buildings & Civil Works
  - Fuel Handling System; Ash Handling & Storage System
  - *LAWI EtaComb® 400 Combustion System*
  - Flue Gas Treatment System (ESP)
  - Turbine and Generator System
  - DCS & *LAWI EtaLogic®* Optimization System

**WINNER OF THAILAND ENERGY AWARD 2015**

## 9.9 MWel Biomass Power Plant, Prasat | Thailand - LAWI EtaComb® 400

**Commissionend since: October 2012**

**Design Fuel:** Eucalyptus Bark, Wood Chip

**Location:** Prasat, Surin | Thailand

### Technical Project Data:

Firing Capacity: 39.5 MWth

BMCR: 45 tph

Steam Parameter: 68 bar(a) | 485°C

Plant Type: Power Generation

Plant Capacity: 9.9 MWel

### LAWI Scope of Work:

- Overall Power Plant Basic Engineering
- EPC Supply: *LAWI EtaComb® 400 Combustion System*
  - Multi-Fuel High Moisture 3-Lane adiabatic Combustion Chamber with two-stage Air-Preheating
  - Fuel Dosing System
  - Moving Grate
  - Air System with Recirculation Gas

## 17 MWel Multi Fuel Power Plant, Surin | Thailand - LAWI EtaComb® 600

**Commissionend since: September 2012**

**Design Fuel:** Eucalyptus Bark, Wood Chip, Rice Husk

**Location:** Surin | Thailand

### Technical Project Data:

Firing Capacity: 60 MWth

BMCR: 67 tph

Steam Parameter: 66 bar(a) | 485°C

Plant Type: Power Generation

Plant Capacity: 17 MWel

### LAWI Scope of Work:

- Overall Power Plant Basic Engineering
- Overall Power Plant Project Management
- EPC Supply: *LAWI EtaComb® 600 Combustion System*
  - Multi fuel adiabatic Combustion Chamber with Post-Combustion
  - Fuel Dosing System
  - Moving Grate
  - Air System with Recirculation Gas
  - Combustion & Boiler Instruments



## 9.9 MWel Biomass Power Plant, Roi Et | Thailand - LAWI EtaComb® 400 - WINNER OF THAILAND ENERGY AWARD 2014

**Commissionend since: June 2012**

**Design Fuel:** Eucalyptus Bark, Rice Husk

**Location:** Roi Et | Thailand

### Technical Project Data:

Firing Capacity: 40 MWth

BMCR: 45 tph

Steam Parameter: 66 bar(a) | 485°C

Plant Type: Power Generation

Plant Capacity: 9.9 MWel

### LAWI Scope of Work:

- Overall Power Plant Basic Engineering
- EPC Supply: *LAWI EtaComb® 400* Combustion System
  - Multi-fuel 3-lane adiabatic Combustion Chamber
  - Fuel Dosing System
  - Moving Grate
  - Air System with Recirculation Gas

WINNER OF THAILAND ENERGY AWARD 2014

## 9.9 MWel Biomass Power Plant, Nam Phong | Thailand - LAWI EtaComb® 400

**Commissionend since: May 2012**

**Design Fuel:** Eucalyptus Bark, Wood Chip

**Location:** Nam Phong, Khon Kaen | Thailand

### Technical Project Data:

Firing Capacity: 39.5 MWth

BMCR: 45 tph

Steam Parameter: 68 bar(a) | 485°C

Plant Type: Power Generation

Plant Capacity: 9.9 MWel

### LAWI Scope of Work:

- Overall Power Plant Basic Engineering
- EPC Supply: *LAWI EtaComb® 400* Combustion System
  - Multi-Fuel High Moisture 3-Lane adiabatic Combustion Chamber with two-stage Air-Preheating
  - Fuel Dosing System
  - Moving Grate
  - Air System with Recirculation Gas

## 9.9 MWe Eucalyptus Bark Power Plant, Ban Bueng | Thailand - LAWI EtaComb® 400

**Commissionend since: April 2012**

**Design Fuel:** Eucalyptus Bark, Wood Chip

**Location:** Ban Bueng, Chonburi | Thailand

### Technical Project Data:

Firing Capacity: 39.5 MWth

BMCR: 45 tph

Steam Parameter: 68 bar(a) | 485°C

Plant Type: Power Generation

Plant Capacity: 9.9 MWe

### LAWI Scope of Work:

- Overall Power Plant Basic Engineering
- EPC Supply: *LAWI EtaComb® 400* Combustion System
  - Multi-Fuel High Moisture 3-Lane adiabatic Combustion Chamber with two-stage Air-Preheating
  - Fuel Dosing System
  - Moving Grate
  - Air System with Recirculation Gas

## 9.9 MWe Multi Fuel Power Plant, Thap Sakae | Thailand - LAWI EtaComb® 400

**Commissionend since: October 2011**

**Design Fuel:** Wood Chip, Coconut fiber, Palm Stalk

**Location:** Thap Sakae, Prachuap Khiri Khan | Thailand

### Technical Project Data:

Firing Capacity: 40 MWth

BMCR: 45 tph

Steam Parameter: 42 bar(a) | 450°C

Plant Type: Power Generation

Plant Capacity: 9.9 MWe

### LAWI Scope of Work:

- EPC Supply: *LAWI EtaComb® 400* Combustion System
  - Multi-Fuel 3-Lane adiabatic Combustion Chamber
  - Fuel Dosing System
  - Moving Grate
  - Air System with Recirculation Gas
  - Fuel Conveying + Deashing System

## 9.9 MW Rice Husk Power Plant, Nakhon Ratchasima | Thailand - LAWI EtaComb® 400

**Commissionend since:** May 2011

**Design Fuel:** Rice Husk

**Location:** Nakhon Ratchasima | Thailand

### Technical Project Data:

Firing Capacity: 40 MWth

BMCR: 45 tph

Steam Parameter: 67 bar(a) | 485°C

Plant Type: Power Generation

Plant Capacity: 9.9 MWe

### LAWI Scope of Work:

- Overall Power Plant Basic Engineering
- EPC Supply: *LAWI EtaComb® 400 Combustion System*
  - Multi-Fuel 3-Lane adiabatic Combustion Chamber
  - Fuel Dosing System
  - Moving Grate
  - Air System with Recirculation Gas

## 9.9 MWe Bagasse CHP Power Plant, Utai Thani | Thailand - LAWI EtaComb® 600

**Commissionend since:** February 2011

**Design Fuel:** Bagasse

**Location:** Utai Thani | Thailand

### Technical Project Data:

Firing Capacity: 55 MWth

BMCR: 60 tph

Steam Parameter: 68 bar(a) | 485°C

Plant Type: Heat & Power Generation

Plant Capacity: 9.9 MWe

### LAWI Scope of Work:

- Overall Power Plant Basic Engineering
- EPC Supply: *LAWI EtaComb® 600 Combustion System*
  - Multi-Fuel 3-Lane adiabatic Combustion Chamber
  - Fuel Dosing System
  - Moving Grate
  - Air System with Recirculation Gas
  - Boiler & Combustion Control Programming

## 9.5 MWel Biomass Power Plant, Chumporn | Thailand - LAWI EtaComb® 500

**Commissionend since:** April 2009

**Design Fuel:** Palm Leaves, EFB

**Location:** Chumporn | Thailand

### Technical Project Data:

Firing Capacity: 48.4 MWth

BMCR: 50 tph

Steam Parameter: 42 bar(a) | 410°C

Plant Type: Power Generation

Plant Capacity: 9.5 MWel

### LAWI Scope of Work:

- Overall Power Plant Basic Engineering
- EPC Supply: *LAWI EtaComb® 500 Combustion System*
  - Multi-Fuel 3-Lane adiabatic Combustion Chamber
  - Fuel Dosing System
  - Moving Grate
  - Air System with Recirculation Gas
  - Control System

## 7.5 MWel Rice Husk Power Plant, Chon Buri | Thailand - LAWI EtaComb® 300

**Commissionend since:** March 2009

**Design Fuel:** Rice Husk

**Location:** Chon Buri, Thailand

### Technical Project Data:

Firing Capacity: 32.5 MWth

BMCR: 35 tph

Steam Parameter: 69 bar(a) | 490°C

Plant Type: Power Generation

Plant Capacity: 7.5 MWel

### LAWI Scope of Work:

- Overall Power Plant Basic Engineering
- EPC Supply: *LAWI EtaComb® 300 Combustion System*
  - adiabatic Combustion Chamber
  - Fuel Dosing System
  - Moving Grate
  - Air System with Recirculation Gas
  - Combustion Instruments
  - Bottom Ash Handling System
  - PLC Control System for Steam Boiler

## 9.5 MWel Biomass Power Plant, Buriram | Thailand - LAWI EtaComb® 500

**Commissionend since: October 2008**

**Design Fuel:** Rice Husk, Woodchip

**Location:** Buriram | Thailand

### Technical Project Data:

Firing Capacity: 50 MWth

BMCR: 55 tph

Steam Parameter: 66 bar(a) | 485°C

Plant Type: Power Generation

Plant Capacity: 9.5 MWel

### LAWI Scope of Work:

- Overall Power Plant Basic Engineering
- EPC Supply: *LAWI EtaComb® 500* Combustion System
  - Moving Grate
  - Fuel Dosing System
  - Fuel & Ash Handling System
  - DCS Control System

## 10 MWel Multi Fuel Biomass Power Plant, Trincomalee | Sri Lanka - LAWI EtaComb® 500

**Commissionend since: August 2008**

**Design Fuel:** Rice Husk, Wood Chip, Coconut Shell, Municipal Green Waste

**Location:** Trincomalee | Sri Lanka

### Technical Project Data:

Firing Capacity: 47 MWth

BMCR: 50 tph

Steam Parameter: 55 bar(a) | 455°C

Plant Type: Power Generation

Plant Capacity: 10 MWel

### LAWI Scope of Work:

- Overall Power Plant Basic Engineering
- EP Supply: *LAWI EtaComb® 500* Combustion System
  - adiabatic Multi-Fuel Combustion with Post-Combustion
  - Air System with Recirculation Gas
  - Fuel Conveying System
  - Ash Handling System

## 9.9 MWel Biomass Power Plant, Ubon Ratchathani | Thailand - LAWI EtaComb® 500

**Commissionend since: June 2008**

**Design Fuel:** Rice Husk, Corn Cob

**Location:** Ubon Ratchathani | Thailand

### Technical Project Data:

Firing Capacity: 50 MWth

BMCR: 55 tph

Steam Parameter: 66 bar(a) | 485°C

Plant Type: Power Generation

Plant Capacity: 9.9 MWel

### LAWI Scope of Work:

- Overall Power Plant Basic Engineering
- EPC Supply: *LAWI EtaComb® 500* Combustion System
  - Moving Grate
  - Fuel Dosing System
  - PLC Control System for Steam Boiler

## 7.3 MWel Rice Husk Power Plant, Nakhon Ratchasima | Thailand - LAWI EtaComb® 300

**Commissionend since: October 2007**

**Design Fuel:** Rice Husk

**Location:** Nakhon Ratchasima | Thailand

### Technical Project Data:

Firing Capacity: 30 MWth

BMCR: 35 tph

Steam Parameter: 40 bar(a) | 450°C

Plant Type: Power Generation

Plant Capacity: 7.3 MWel

### LAWI Scope of Work:

- Overall Power Plant Basic Engineering
- EPC Supply: *LAWI EtaComb® 300* Combustion System

## 22 MW Biomass Power Plant, Midland | USA

**Commissionend since: January 2004**

**Design Fuel:** Waste Wood Chip, Wood Dust

**Location:** Midland | USA

### LAWI Scope of Work:

**Overall Power Plant Basic Engineering**

Engineering of Moving Grate Furnace 27m<sup>2</sup> with Thermal Oil Heater

## 12 MW Biomass Power Plant, Samut Sakhon | Thailand

**Commissionend since:** December 2003

**Design Fuel:** Waste Wood Chip, Wood Dust

**Location:** Samut Sakhon | Thailand

**LAWI Scope of Work:**

Engineering of Moving Grate Furnace 16m<sup>2</sup> with Thermal Oil Heater

## 11 MWth Waste Wood Chip Power Plant, Phang Nga | Thailand

**Commissionend since:** April 2003

**Design Fuel:** Waste Wood Chip

**Location:** Phang Nga | Thailand

**LAWI Scope of Work:**

Engineering of Moving Grate Furnace 27m<sup>2</sup> with Thermal Oil Heater 280°C

## 6.4 MW Biomass CHP Power Plant, Pavia | Italy - LAWI EtaComb® 400

**Commissionend since:** June 2002

**Design Fuel:** Rice Husk, Waste Wood Chip, Wood Dust, Agriculture Waste

**Location:** Pavia | Italy

**LAWI Scope of Work:**

- EP Supply of *LAWI EtaComb®* Moving Grate Furnace for 40 tph Steam Boiler Cogeneration Plant

### Technical Project Data:

Firing Capacity: 37 MWth

BMCR: 40.5 tph

Steam Parameter: 62 bar(a) | 450°C

Plant Type: Heat & Power Generation

Plant Capacity: 6.4 MWeI

## 6 MW Biomass Power Plant, Beyoglu | Turkey

**Commissionend since:** September 2001

**Design Fuel:** Naphta Exhaust Gas from Gas Turbine

**Location:** Beyoglu | Turkey

**LAWI Scope of Work:**

- Heat Recovery System with Thermal Oil Heater

## 4.2 MW Biomass Power Plant, Eldoret | Kenia

**Commissionend since:** March 1999

**Design Fuel:** Waste Wood Chip, Wood Dust

**Location:** Eldoret | Kenia

**LAWI Scope of Work:**

- EPC Supply of Moving Grate Furnace 34m<sup>2</sup> for Steam Power Plant

## 4.5 MW Biomass Power Plant, Valle Lomellina | Italy

**Commissionend since:** March 1999

**Design Fuel:** Rice Husk

**Location:** Valle Lomellina | Italy

**LAWI Scope of Work:**

- EPC Supply of Moving Grate Furnace 29.5 m<sup>2</sup> for 32 tph Steam Boiler

### **Technical Project Data:**

Firing Capacity: 20.8 MWth

BMCR: 21 tph

Steam Parameter: 54 bar(a) | 450°C

Plant Type: Power Generation

Plant Capacity: 4.5 MWeI



## 8 MW Waste Wood Chip Power Plant, Preding | Austria

**Commissionend since: February 1999**

**Design Fuel:** Waste Wood Chip

**Location:** Preding | Austria

**LAWI Scope of Work:**

- EPC Supply of Thermal Oil Boiler for Wood Panel Industry

## 3500 + 250 KW Gas Power Plant, Ravensburg | Germany

**Commissionend since: December 1998**

**Design Fuel:** Natural Gas, Digester Gas

**Location:** Ravensburg | Germany

**LAWI Scope of Work:**

- EPC Supply of Thermal Oil Boiler for Sewage Treatment Plant

## 2x2 MW Natural Gas Power Plant, Villach | Austria

**Commissionend since: April 1998**

**Design Fuel:** Natural Gas

**Location:** Villach | Austria

**LAWI Scope of Work:**

- EPC Supply of Thermal Oil Heating Station

## 2.5 MW Rice Husk Power Plant, Nakhon Ratchasima | Thailand

**Commissioned since: June 1996**

**Design Fuel:** Rice Husk

**Location:** Nakhon Ratchasima | Thailand

### **Technical Project Data:**

Firing Capacity: 17 MWth

BMCR: 18 tph

Steam Parameter: 33 bar(a) | 420°C

Plant Type: Power Plant Co-Generation

### **LAWI Scope of Work:**

- EPC Supply of Moving Grate Furnace with 18 tph Steam Boiler