

# State-of-the-art R&D, engineering, testing and production

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**BOSAL ECI energy conversion and recycling modules are developed and performance tested at our state-of-the-art laboratories in Lummen, Belgium. They are manufactured at our production facilities in Vianen, the Netherlands which has a highly experienced engineering department.**

Our R&D facility develops numerical simulation tools that rapidly model the impact of interface modifications on the overall performance of our energy conversion and recycling modules. Finished modules are thoroughly tested using infrastructure and protocols developed for high-throughput automotive testing.

- Global R&D know-how
- Extensive knowledge of stainless steel selection
- Simulation tool chain incl. CFD
- Endurance testing
- Heat exchange and pressure drop testing at key operation points

## Why choose BOSAL ECI?

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Active in the automotive industry since 1923, we use our knowledge and experience of production processes for high-temperature steel components to drive energy conversion efficiency and sustainability.

With BOSAL ECI as your partner, you can rely on high-performance energy conversion and recycling modules based on proven industrial expertise.

- Agility to respond fast in a 24-hour global economy
- From modular prototype to mass production
- Customized integration with your systems
- More than 25.000 proven field operating hours per module and counting
- Ability to leverage our entire global supply chain



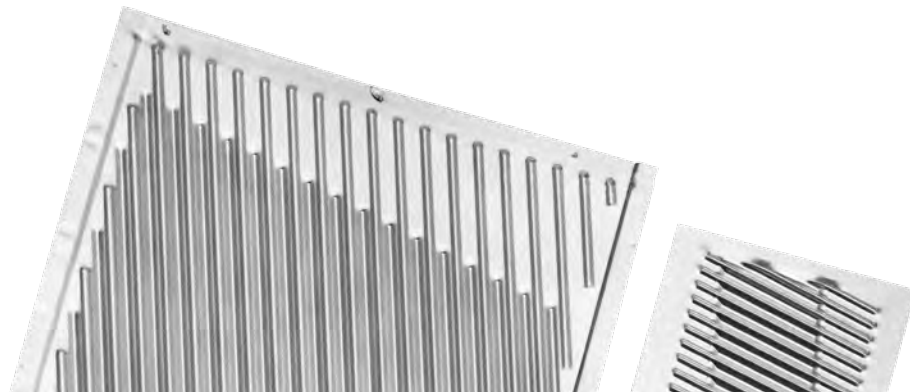
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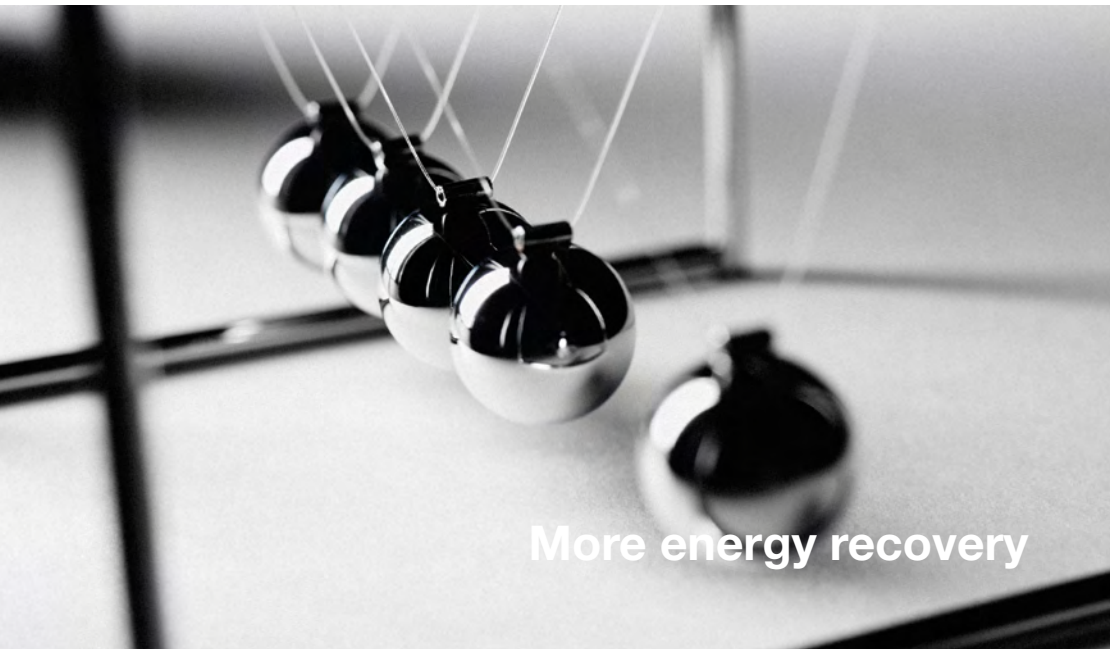
**bosal**  
Energy Conversion Industry



## Get more from your CHP units and other heat recovery systems

BOSAL Energy Conversion Industry (ECI) has the knowledge and industrial capability to get more from your CHP units and other heat recovery systems. With 15 years' experience in high-performance, welded stainless steel components, we develop advanced energy conversion and recycling modules customized to your needs.

For increased energy recovery, we produce energy recycling modules that deliver higher efficiency and greater sustainability. All these are based on our compact, modular architecture which is rigorously field tested for endurance. Partnering with you from prototype to mass production, finished modules are fully integrated into your system with all the required interfaces according to your precise specifications. As a result, BOSAL ECI reduces your time to market, increases your return on investment and supports your success in sustainable energy solutions.



More energy recovery

## BOSAL energy conversion and recycling modules

To get more from your CHP units and other heat recovery systems, you need advanced modular components. That's why BOSAL ECI delivers energy conversion and recycling modules for a range of functions precisely tailored to your system requirements.

These modules offer high levels of efficiency and endurance enabling you to get the maximum return on your investment.

- Energy conversion and recycling modules for both heat-to-power and heat-to-heat
- High-temperature applications up to 1000° C
- Energy output from 1 kWe to 250 kWe and beyond
- Uniform flow with low back pressure
- Pre-heating, recuperator, mixer, reformer and catalytic functions
- For solid oxide fuel cells (SOFC), PEM reformers, Stirling engines, gas turbines and internal combustion engines
- Compact, modular architecture fully customized using seven standard cell plate footprints
- Housing and interfacing tailored to your specifications for routing, connection, mounting and support

More sustainability



More high tech