



# Biogreases

Bio-based and  
biodegradable  
solutions

Ester-based greases  
with **outstanding**  
**performance**



**TotalEnergies**

# Summary

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- Biogrease product portfolio
- Customers benefits
- Biomultis range
- Five good reasons for choosing TotalEnergies Lubrificants

# Biogreases

## Sustainability & performance

### BIOGREASE PRODUCT PORTFOLIO

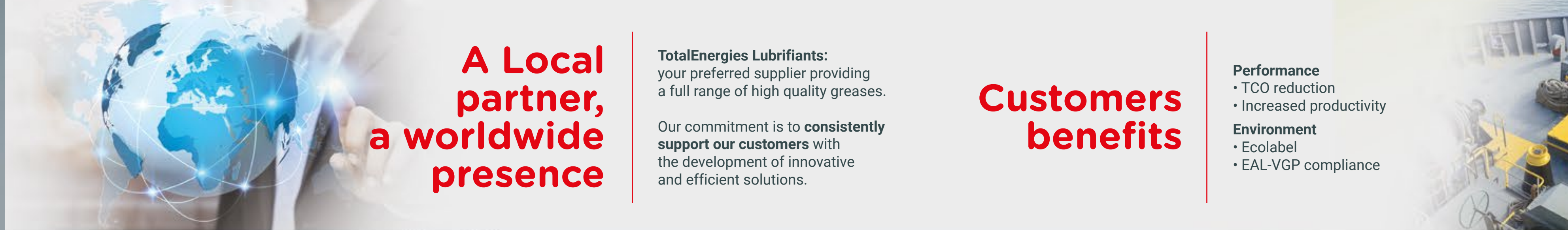
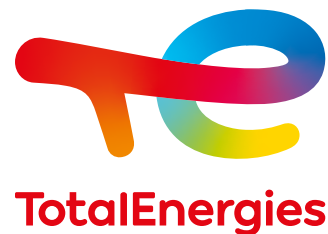
|                                                                                                           | Applications                                                         | Customer benefits                                                                                                                                                                | NLGI | SOAP              | Ester type | KV40 | 4 Ball EP | T °C          | Biodegradability | Low T °C | High T °C | Load | Speed |
|-----------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-------------------|------------|------|-----------|---------------|------------------|----------|-----------|------|-------|
|  <b>Biomultis EP 2</b>    | Marine applications, vessel maintenance, dredging, quarries          | <ul style="list-style-type: none"><li>• TLL Ecolabel</li><li>• High and low T °C resistance</li><li>• Water resistance</li><li>• EP resistance</li></ul>                         | 2    | Lithium / Calcium | Synthetic  | 150  | 315       | -50 to 160 °C | > 60 %           | ....     | ....      | ...  |       |
|  <b>Biomultis EP 1</b>    | Marine applications                                                  | <ul style="list-style-type: none"><li>• TLL Ecolabel</li><li>• High and low T °C resistance</li><li>• Water resistance</li><li>• EP resistance</li></ul>                         | 1    | Lithium / Calcium | Synthetic  | 150  | 315       | -50 to 140 °C | > 70 %           | ....     | ...       | ...  | •     |
|  <b>Biomultis EP 0</b>  | Railway maintenance, Marine applications, Mining                     | <ul style="list-style-type: none"><li>• TLL Ecolabel</li><li>• High and low T °C resistance</li><li>• Water resistance</li><li>• EP resistance</li></ul>                         | 0    | Lithium / Calcium | Synthetic  | 150  | 315       | -50 to 140 °C | > 80 %           | ....     | ...       | ...  | •     |
|  <b>Biomultis XHV 2</b> | Public works, Civil Engineering, Towage                              | <ul style="list-style-type: none"><li>• TLL Ecolabel</li><li>• Patent</li><li>• High and low T °C resistance</li><li>• Water resistance</li><li>• High Load protection</li></ul> | 2    | Lithium / Calcium | Synthetic  | 680  | 620       | -40 to 160 °C | > 60 %           | ...      | ....      | .... |       |
| <b>Bio adhesive +</b>                                                                                     | Cables, LNG Tankers, Marine applications, Drilling equipment, Mining | <ul style="list-style-type: none"><li>• Excellent adhesiveness</li><li>• Low temperature</li></ul>                                                                               | 0    | Calcium           | Synthetic  | 320  | 200       | -40 to 90 °C  | > 60 %           | ...      | ..        | •    |       |
| <b>Bio OG +</b>                                                                                           | Open-Gear, Cables, LNG Tankers, Marine applications, Draglines       | <ul style="list-style-type: none"><li>• Adhesivity</li><li>• Low temperature</li><li>• EP resistance</li></ul>                                                                   | 1    | Calcium           | Synthetic  | 990  | 620       | -40 to 90 °C  | > 70 %           | ...      | ..        | .... |       |
| <b>Biomerkan RS</b>                                                                                       | Civil engineering, bridges, shipping equipment                       | <ul style="list-style-type: none"><li>• High biodegradability</li></ul>                                                                                                          | 3    | Calcium           | Vegetable  | 32   | 250       | -25 to 90 °C  | > 80 %           | ..       | ..        | ..   | ..    |
| <b>Biomerkan EP 2</b>                                                                                     | Tunneling                                                            | <ul style="list-style-type: none"><li>• High biodegradability</li><li>• EP resistance</li></ul>                                                                                  | 2    | Calcium           | Vegetable  | 32   | 315       | -25 to 90 °C  | > 60 %           | ..       | ..        | ...  | ...   |
| <b>Biomerkan EP 1</b>                                                                                     | Tunneling                                                            | <ul style="list-style-type: none"><li>• High biodegradability</li><li>• EP resistance</li></ul>                                                                                  | 1    | Calcium           | Vegetable  | 32   | 315       | -30 to 90 °C  | > 65 %           | ..       | ..        | ...  | ...   |
| <b>Biomerkan EP 0</b>                                                                                     | Quarries                                                             | <ul style="list-style-type: none"><li>• High biodegradability</li><li>• EP resistance</li></ul>                                                                                  | 0    | Calcium           | Vegetable  | 32   | 315       | -30 to 90 °C  | > 75 %           | ..       | ..        | ...  | ...   |



## Biogreases

A complete Lithium/Calcium & Calcium range, from **standard multipurpose to heavy-duty greases** is covering a wide range of NLGI grades.

TotalEnergies biogreases meet **requirements of Biodegradability** according to **OECD 301 standard test** method.



## A Local partner, a worldwide presence

**TotalEnergies Lubrifiants:**  
your preferred supplier providing a full range of high quality greases.

Our commitment is to **consistently support our customers** with the development of innovative and efficient solutions.

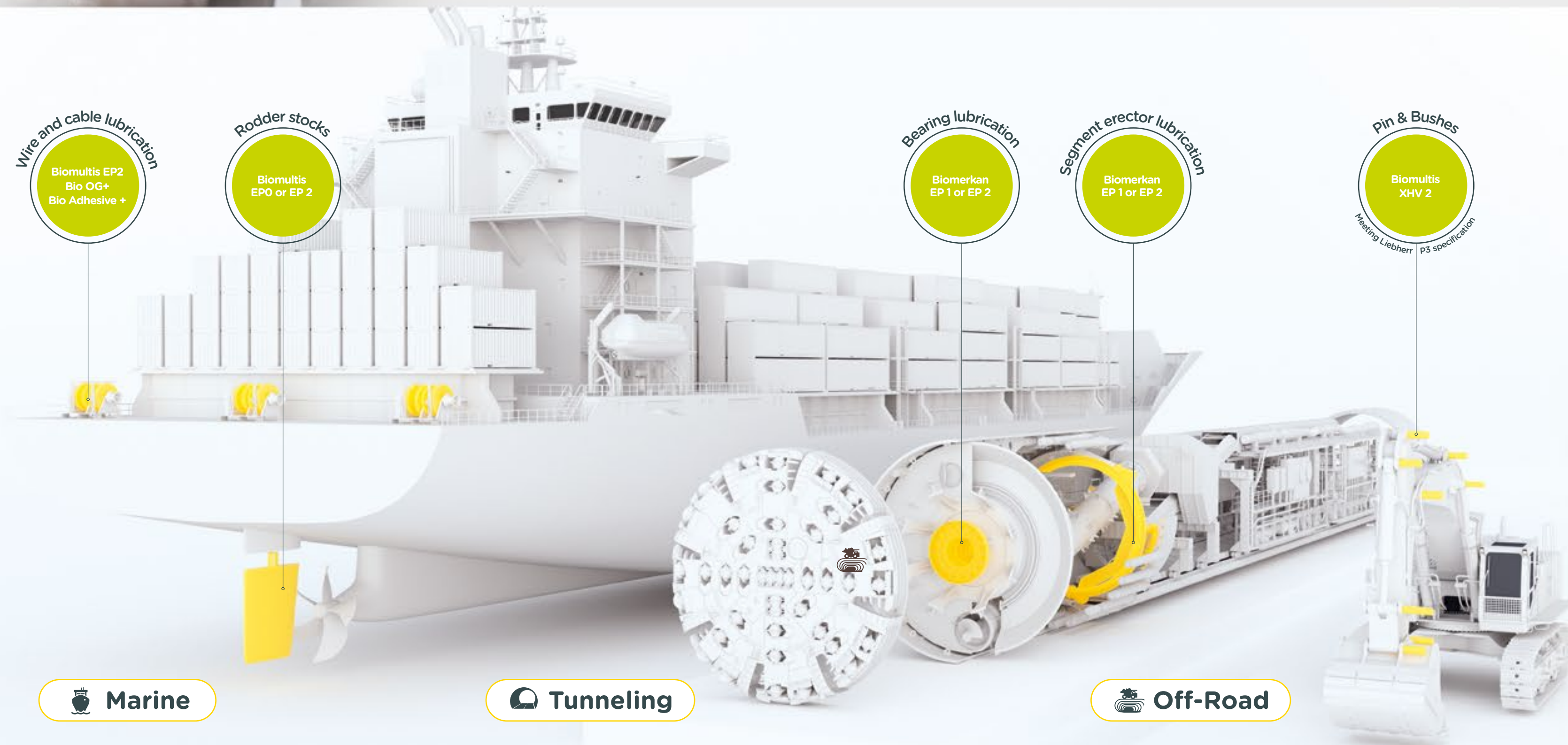
## Customers benefits

### Performance

- TCO reduction
- Increased productivity

### Environment

- Ecolabel
- EAL-VGP compliance



**Marine**



**Tunneling**



**Off-Road**



# Biomultis range



## EXTENDED OPERATING TEMPERATURES

From low to high temperature.

-25 °C Standard lithium grease 120 °C

-50 °C High performance synthetic lithium complex grease 160 °C

-50 °C Biomultis range 160 °C

Straight lithium **biogreases**:  
a performance as reliable as synthetic lithium complex greases



The first grease range  
certified Ecolabel Total  
Lost Lubrication (TLL),  
EAL-VGP

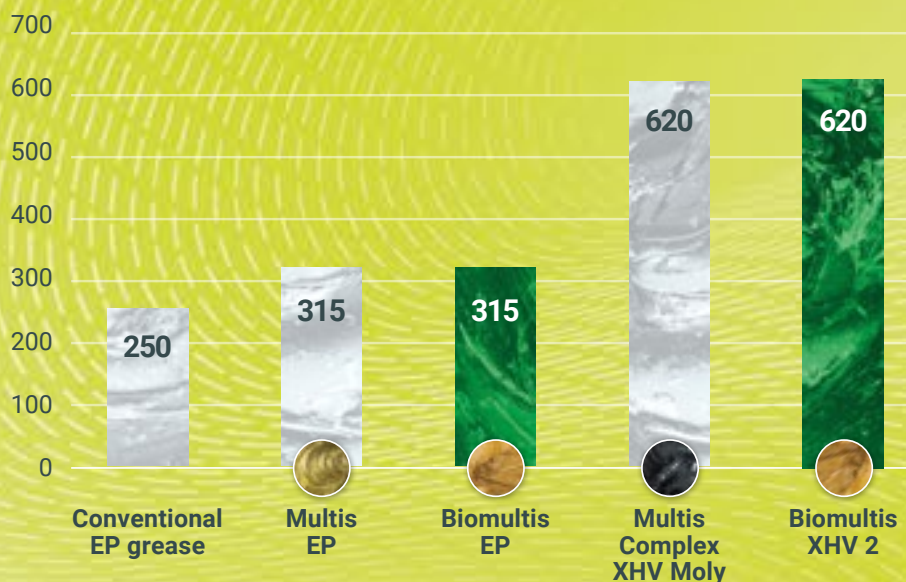
TLL = Total Lost Lubrication - highest  
ecolabel level



## STRONG EFFICIENT

A complete range, with high-load resistance.

4-ball weld load – ASTM D2596



### Biomultis XHV 2

With its specific  
additivation under  
patent, **Biomultis XHV 2**  
offers both an excellent  
protection against heavy  
load and outstanding  
performance at high  
and low temperature.

**Biomultis XHV 2**  
is Ecolabel certified.





### A major player

With our production, supply chain and commercial presence in more than 160 countries, we deliver a full range of lubricants.

### Support and partnership

Thanks to local technical presence, we provide a high level of service to optimize your Total Cost of Ownership.

### References & OEMs

TotalEnergies Lubrifiants cooperates with equipment manufacturers to create high-technology products for optimal performance and production of your machinery.

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## good reasons for choosing TotalEnergies Lubrifiants

### Innovation & Research

TotalEnergies Lubrifiants invests in biotechnologies to find the most suitable components to reach energy efficiency through formulations designed in our Research Centers.

### Quality and environment

TotalEnergies Lubrifiants ISO 9001 and 14001 certifications are the guarantee of a long term commitment to quality and environment. From the initial design stage, our R&D teams seek to develop products that minimize toxicity risks and environmental impact.



# TotalEnergies



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Safety Data Sheets are available at [ms-sds.totalenergies.com](https://ms-sds.totalenergies.com)



TotalEnergies Industry Solutions