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Company profile
Key facts

138.5 GW
Globally installed

29 k
Employees

€ 9.1 bn
Annual revenue

> € 40 bn
Order backlog

Truly global, modern and scalable footprint

Advanced digital capabilities

Portfolio covering all requirements

---

1 Figures as end of December 2023.
2 Figures as end of September 2023.
Siemens Gamesa is a global company, based in Zamudio (Vizcaya, Spain).

It has Siemens Energy AG as sole significant shareholder holding.
Activity

Onshore
113.5 GW installed in 79 countries.
13 GW of wind farms developed in 14 countries.
An experienced technology partner for your wind projects.

Offshore
25 GW installed worldwide since 1991.
Most experienced offshore wind company with the most reliable product portfolio in the market.

Service
83.7 GW maintained.
Commitment beyond the supply of the Wind Turbine Generator (WTG) to achieve the profitability objectives of each project.

Three business units strongly positioned in the market
Onshore business
Over 40 years’ experience, 113.5 GW onshore installed in 79 countries and 70.2 GW under O&M.

Siemens Gamesa technology:
- Optimized performance through tailored product configuration.
- Covers customer needs and market requirements, allowing complete control and flexibility.

* Figures as of CY4Q2023.
Your experienced technology partner

Driven by innovation

- To set new standards in the industry
- To create value for our customers

Committed to developing efficient products and solutions to improve performance and competitiveness
Operational excellence
Siemens Gamesa recognized in the sector

113,489 MW onshore installed in 79 countries.

Siemens Gamesa is the 3rd largest supplier by cumulative installed capacity in 2022 with a market share of 18.8%\(^1\).

12 of the 15 wind largest asset owners by cumulative installed capacity are Siemens Gamesa’s onshore clients because they perceive the agreements achieved to have value\(^2\).

Our products have the backing of independent consultants and financial bodies.

---

\(^1\) Wood Mackenzie, Global Wind Turbine OEM 2022 Market Shares Database (May 2023).
Value chain presence
The only manufacturer with a wide experience

Our wide experience throughout the whole value chain allows us to lead and advise our clients along the different phases of their wind projects:

- Wind farm development
- WTG supply & construction
- Operation

Prospecting | Licenses Permitting | WTG engineering | ExW supply | EPC Logistics Construction | Operation & Maintenance | Wind farm ownership | Repowering Life Extension

Optimized solutions for each project and in all markets
Global footprint

Geographic diversification allowing growth in emerging and mature markets

Accumulated track record – CY4Q2023

113,489 MW

Commercial offices in 33 countries across the world
### Operational performance

**Global supplier**

- **1,025 MW** installed in CY4Q23
- **113.5 GW** of capacity installed
- **70.2 GW** in O&M

### Figures as of CY4Q2023.

<table>
<thead>
<tr>
<th>Region</th>
<th>MW Installed</th>
<th>MW Maintained</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>NORTH AMERICA</strong></td>
<td>32,059</td>
<td>15,616</td>
</tr>
<tr>
<td><strong>DEU</strong></td>
<td>2,796</td>
<td>6,224</td>
</tr>
<tr>
<td><strong>NEME</strong></td>
<td>18,027</td>
<td>10,006</td>
</tr>
<tr>
<td><strong>SEA</strong></td>
<td>26,973</td>
<td>18,424</td>
</tr>
<tr>
<td><strong>LATAM</strong></td>
<td>12,088</td>
<td>8,739</td>
</tr>
<tr>
<td><strong>APAC</strong></td>
<td>21,547</td>
<td>11,163</td>
</tr>
</tbody>
</table>
Production centers in the main wind markets

- Technical presence close to the customer.
- Supervision of the whole production process. Design and manufacturing of WTGs critical components:
  - Electronics: Gamesa Electric.
  - Gearbox: Gearbox by Gamesa.
- Establishment of strategic partnerships with leading global suppliers of components:
  - Towers: Windar Renovables*, CS Wind, GRI.
  - Gearbox: ZF, Winergy, NGC.

Customer proximity, full process control and delivery optimization.
Turnkey projects. Integral construction services

Wide experience in turnkey projects (EPC) worldwide, pre-design in-house capacity, final design, civil works, electric works and high-voltage power lines.

Total # Wind Farms
(in operation + under construction)

489
Including full supply

- In operation (480): 17,891 MW
- Under construction (9): 429 MW

World-class experience in BoP, including complex projects.

Figure as of CY3Q2023.
Global experience in wind farms

Among our clients are large utilities, IPPs and investors around the world that rely on our expertise in wind farms activity:

- Utilities: Iberdrola, Huadian, CGN, HECIC, RWE, ENEL, E.On, EDP, EDF…
- IPPs: IKEA, Gestamp, Taiga, John Laing, Greenko, Tata, Algonquin Power…
- Investors: Viridis, Marubeni, Allianz, Eolia, Oil India…

21 years of experience in wind farms development
13 GW of wind farms developed and built in 14 countries
Pipeline of 4.2 GW in different stages of development in 12 countries

Pipeline of 4.2 GW in different stages of development in 12 countries

13 GW of wind farms developed and built in 14 countries

Figures as of CY4Q2023.
*INDIA: met mast and project scouting activities based on 5 GW of wind data pipeline.

Technological supplier with unique experience in the development of wind farms
Onshore product portfolio

The most suitable product for each project
Our Onshore product portfolio

<table>
<thead>
<tr>
<th>Siemens Gamesa 5.X</th>
<th>Low winds</th>
<th>Medium winds</th>
<th>High winds</th>
</tr>
</thead>
<tbody>
<tr>
<td>SG 6.6-170</td>
<td>SG 6.6-155</td>
<td>SG 7.0-170</td>
<td></td>
</tr>
<tr>
<td>Siemens Gamesa 4.X</td>
<td></td>
<td></td>
<td>SG 5.0-132</td>
</tr>
<tr>
<td>SG 5.0-145</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Siemens Gamesa 3.X</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>SG 3.4-145</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Country-specific solutions

USA
SG 4.4-164
Medium winds
SG 2.9-129
Medium and low winds

FRANCE
SG 3.4-132
Medium winds

JAPAN
SWT-DD-130
Thyphoon class
SWT-DD-120
Thyphoon class
OptimaFlex
Optimization through flexibility

Beyond the traditional off-the-shelf approach, which results in products that more or less fit all the sites, but are sub-optimal for many, OptimaFlex delivers a uniquely tailored solution that is perfect for our customers’ specific needs.

Optimized site design combined with a customizable product platform, based on flexible power rating, site specific towers and optimized BoP solutions, allow Siemens Gamesa to deliver reduced LCoE by increasing AEP and optimizing cost.

WTGs can be precisely configured to adapt perfectly to site conditions, thus offering our customers the most suitable product for their projects.
OptimaFlex
Tailored solutions adapted to customer’s needs

The availability of variable power ratings allows turbines to be optimized to suit each individual project and achieve maximum returns.

Market broader tower portfolio enabling cost savings from very early bidding stages. Site & market customized designs maximizing competitiveness.

Early engagement with customers combined with advanced siting and design tools allows for optimum wind farm and maximum asset utilization.

Customized solutions. Reduce total WF cost through optimized design leveraging BoP, logistics & construction with cross-functional management of the project ONE.

Increasing AEP
Advanced site optimization
Tower cost optimization
BoP optimization

The availability of variable power ratings allows turbines to be optimized to suit each individual project and achieve maximum returns.

Market broader tower portfolio enabling cost savings from very early bidding stages. Site & market customized designs maximizing competitiveness.

Early engagement with customers combined with advanced siting and design tools allows for optimum wind farm and maximum asset utilization.

Customized solutions. Reduce total WF cost through optimized design leveraging BoP, logistics & construction with cross-functional management of the project ONE.
Continuously evolving technology

We are focused on specific technologies to deliver solutions that comply with the latest regulations and enable our customers to bring down their projects’ LCoE:

• Weak grid solutions.
• Technologies for cold climates.
• Optimized foundations.
• Advanced control strategies:
  • Robust control systems.
  • Control auto-tuning for site adaptation.
  • New sensors and monitoring solutions for LCoE reduction.
• Wake Adapt® to reduce wake losses and to optimize the layout of new projects.
• Assets and data protection within different cybersecurity domains/areas.

In Siemens Gamesa we maximize the efficiency of our WTGs through technological solutions adapted to each project and its varying site conditions.
Technologies for sustainability
RecyclableBlade

RecyclableBlade solution
For the first time in the industry, thanks to a new resin technology, Siemens Gamesa is capable of separating and recycling the blade materials to use them in new applications.

A validated and proven process
- **Decommissioning.**
  Disassemble and transport.
- **Immersion in mild acidic solution.**
  Resin dissolves in a mild acidic solution at elevated temperature after a few hours.
- **Reclaim of separated components.**
  Filter and coagulate resin + rinse and dry glass fiber.
- **Reuse.**
  Glass fiber, resin, wood and metal can now be reused.

Siemens Gamesa offer

- **ON and OF blades.**
  Same product quality, strength, warranties and service process.

- **Cost saving** as recycled materials can be **sold** instead of paying to get rid of them.

- **High quality** reclaimed blade components due to relative low recycling temperature.

- **Environmental Social Governance** positive for financing.

A pioneering solution to recover and recycle blade materials.
Technologies for sustainability
GreenerTower

⚠️ Maximum 0.7t CO₂ equivalent emissions per ton of steel, a 63% minimum reduction for tower steel plates vs. conventional steel.

Steel suppliers are validated in a thorough Siemens Gamesa standard qualification process. Same steel properties and same quality in addition to 3rd party certification of the CO₂ equivalent emission.

<table>
<thead>
<tr>
<th>Means to achieve greener steel</th>
<th>Siemens Gamesa offer</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 Use of less energy intensive steel manufacturing processes.</td>
<td>✅ Available now!</td>
</tr>
<tr>
<td>2 Increased use of scrap steel.</td>
<td>✅ Same warranties.</td>
</tr>
<tr>
<td>3 Increased use of renewable energy for the melting process.</td>
<td>✅ Same strength and quality.</td>
</tr>
<tr>
<td></td>
<td>✅ Significantly less CO₂ equivalent emissions.</td>
</tr>
</tbody>
</table>

A promising solution to reduce the environmental impact of steel production
Siemens Gamesa 5.X
Siemens Gamesa 5.X
Enhanced performance

- Flexible **power output and two rotor sizes** for the most competitive LCoE.
- **Site adaptability** to configure the optimal solution for each project.
- **Versatility**, a highly flexible design for logistics, construction and service.
- Almost 6 GW sold across the world.

---

**New generation Siemens Gamesa onshore platform**

<table>
<thead>
<tr>
<th>Wind class</th>
<th>SG 6.6-155</th>
<th>SG 6.6-170</th>
<th>SG 7.0-170</th>
</tr>
</thead>
<tbody>
<tr>
<td>Medium and high</td>
<td>Ø155m 18.869 m²</td>
<td>Ø170m 22.697 m²</td>
<td>Ø170m 22.697 m²</td>
</tr>
<tr>
<td>Low and medium</td>
<td>Ø155m 18.869 m²</td>
<td>Ø170m 22.697 m²</td>
<td>Ø170m 22.697 m²</td>
</tr>
<tr>
<td>Medium and high</td>
<td>Ø155m 18.869 m²</td>
<td>Ø170m 22.697 m²</td>
<td>Ø170m 22.697 m²</td>
</tr>
</tbody>
</table>

---

Public © Siemens Gamesa Renewable Energy, 2023 | Onshore Global Marketing
Siemens Gamesa 5.X
Product specifications

<table>
<thead>
<tr>
<th>Main data</th>
<th>SG 6.6-155</th>
<th>SG 6.6-170</th>
<th>SG 7.0-170</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rotor diameter</td>
<td>155 m</td>
<td>170 m</td>
<td>170 m</td>
</tr>
<tr>
<td>Nominal power</td>
<td>6.6 MW (flexible power rating from 5.6 MW to 6.6 MW)</td>
<td>6.6 MW (flexible power rating from 6.0 MW to 6.6 MW)</td>
<td>Flexible power rating up to 7.0 MW</td>
</tr>
<tr>
<td>IEC class</td>
<td>IIB (25 years lifetime) IIA (20 years lifetime) IA (25 years lifetime)</td>
<td>S/IIIB (25 years lifetime) IIIA (20 years lifetime)</td>
<td>IIA (25 years lifetime)</td>
</tr>
<tr>
<td>Generator output voltage</td>
<td>690 Vac +12%/-10%</td>
<td>690 Vac +12%/-10%</td>
<td>690 Vac +12%/-10%</td>
</tr>
<tr>
<td>Power factor</td>
<td>± 0.90 Cos Phi</td>
<td>± 0.90 Cos Phi</td>
<td>± 0.90 Cos Phi</td>
</tr>
<tr>
<td>Grid frequency</td>
<td>50/60 Hz</td>
<td>50/60 Hz</td>
<td>50/60 Hz</td>
</tr>
<tr>
<td>Standard temperature range*</td>
<td>[-20; +40°C] with temperature de-rating</td>
<td>[-20; +40°C] with temperature de-rating</td>
<td>[-20; +40°C] with temperature de-rating</td>
</tr>
</tbody>
</table>

* Additional low- and high-temperature variants available.
Siemens Gamesa 4.X
Siemens Gamesa 4.X
Modularity and flexibility

- Two WTG models to cover a broad range of wind conditions.
- A geared platform based on concepts such as a 3-stage gearbox and DFIG.
- DinoTails® Next Generation to reduce aerodynamic noise.

Wind class | SG 5.0-132 | SG 5.0-145
---|---|---
High | 84 m and site-specific | 127.5 m and site-specific
Medium | 91 m | 102.5 m

A platform targeting LCoE-sensitive markets
Siemens Gamesa 4.X
SG 5.0-132. Our solution for high-wind sites

- **Blade design with large track record** to optimize energy production in high-wind speeds.
- **Flexible power rating** to configure a uniquely tailored solution that fits the specific site conditions.
- **Broad portfolio of turbine options.**
- **Designed for high-wind sites.**

*Mean wind speed: 10 m/s.*
## Siemens Gamesa 4.X
### Product specifications

<table>
<thead>
<tr>
<th>Main data</th>
<th>SG 5.0-132</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rotor diameter</td>
<td>132 m</td>
</tr>
<tr>
<td>Nominal power</td>
<td>5.0 MW (flexible power rating 4.0-5.0 MW)</td>
</tr>
<tr>
<td>IEC class</td>
<td>IA</td>
</tr>
<tr>
<td>Generator output voltage</td>
<td>690 Vac +12%/-10%</td>
</tr>
<tr>
<td>Power factor</td>
<td>± 0.90 Cos Phi</td>
</tr>
<tr>
<td>Grid frequency</td>
<td>50/60 Hz</td>
</tr>
<tr>
<td>Standard temperature range*</td>
<td>[-20°; +45°C] with temperature de-rating</td>
</tr>
<tr>
<td>Noise emission level**</td>
<td>105 dB(A)</td>
</tr>
</tbody>
</table>

* Additional low temperature variant available.
** Sound power level with blade noise reduction add-ons.
Siemens Gamesa 4.X
SG 5.0-145. Designed for reduced LCoE at medium wind sites

- **New control system** and **enhanced blade aerodynamics** to optimize power generation.
- **Flexible power rating** to configure a uniquely tailored solution that fits the specific site conditions.
- **Structural modularity** for increased mechanical capacity and optimal adaptation to logistics and construction requirements.
- **Broad portfolio of WTG options**.

Key milestones:

- **2Q2019**: First prototype and start of production
- **3Q2019**: Type Certificate
- **1Q2020**: Start of production
- **2Q2020**: Type Certificate

Swept area increase: **21%**

AEP increase: **>30%**
## Siemens Gamesa 4.X
### Product specifications

<table>
<thead>
<tr>
<th>Main data</th>
<th>SG 5.0-145</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rotor diameter</td>
<td>145 m</td>
</tr>
<tr>
<td>Nominal power</td>
<td>5.0 MW (flexible power rating 4.0-5.2 MW)</td>
</tr>
<tr>
<td>IEC class</td>
<td>IIB</td>
</tr>
<tr>
<td>Generator output voltage</td>
<td>690 Vac +12%/-10%</td>
</tr>
<tr>
<td>Power factor</td>
<td>± 0.90 Cos Phi</td>
</tr>
<tr>
<td>Grid frequency</td>
<td>50/60 Hz</td>
</tr>
<tr>
<td>Standard temperature range*</td>
<td>[-20; +45°C] with temperature de-rating</td>
</tr>
<tr>
<td>Noise emission level**</td>
<td>106.3 dB(A) (depending on rated power)</td>
</tr>
</tbody>
</table>

* Additional low temperature variant available.
** Lower noise modes available.
Siemens Gamesa 3.X
Siemens Gamesa 3.X
The lowest LCoE in the 3.0-3.6 MW segment

- A benchmark solution in one of the most competitive segments in the market.
- Natural evolution from the Siemens Gamesa 2.X solution.
- The lowest LCoE in the 3.0-3.6 MW segment.

Leveraging the proven experience of the Siemens Gamesa 2.X solutions

Wind class
- Low and medium

133.5 m
127.5 m

SG 3.4-145
Siemens Gamesa 3.X
SG 3.4-145. Benchmark solution with high-capacity factor

• Optimized LCoE:
  • Design based on the certified SG 3.4-132, with more than 7 GW* installed and over 7 GW* in firm orders worldwide.
  • 71 m-blade based on the design of the Siemens Gamesa SG 5.0-145 blade.
  • Optimized design for the low and medium wind conditions.
  • Flexible power rating up to 3.6 MW.
  • Almost 3 GW in firm orders and over 1 GW installed.

Swept area increase: 41%
AEP increase: 48%**

* Figures as of CY4Q2023.
** Mean wind speed: 7 m/s.

Key milestones:
- **1Q2020** First prototype in Spain
- **4Q2020** First nacelle in India
- **4Q2020** RLMM Type Certificate
- **2Q2021** Start of production
# Siemens Gamesa 3.X

## Product specifications

<table>
<thead>
<tr>
<th>Main data</th>
<th>SG 3.4-145</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rotor diameter</td>
<td>145 m</td>
</tr>
<tr>
<td>Nominal power</td>
<td>3.465 MW (flexible power rating up to 3.6 MW)</td>
</tr>
<tr>
<td>IEC class</td>
<td>III/S</td>
</tr>
<tr>
<td>Generator output voltage</td>
<td>690 Vac</td>
</tr>
<tr>
<td>Power factor</td>
<td>0.95 CAP-0.95 IND throughout the power range(^{(1)})</td>
</tr>
<tr>
<td>Grid frequency</td>
<td>50 Hz</td>
</tr>
<tr>
<td>Standard temperature range*</td>
<td>From 0°C to 45°C (with de-rating)</td>
</tr>
<tr>
<td>Noise emission level</td>
<td>108.8 dB(A)</td>
</tr>
</tbody>
</table>

\(^{(1)}\) Power factor at generator output terminals on lower side of MV transformer for baseline application mode.
Country-specific solutions
The HNCF solution for the USA market

- **Enhanced blade aerodynamics**, designed by Siemens Gamesa’s world-class blade design team in Boulder, CO.
- **Leveraging the established platform design** to minimize costs and streamline constructability.
- **High Net Capacity Factor** for maximizing performance and revenue.
- Designed for the U.S. market.
- Utilizes the manufacturing facilities in the U.S.
# SG 4.4-164
## Product specifications

<table>
<thead>
<tr>
<th>Main data</th>
<th>SG 4.4-164</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rotor diameter</td>
<td>164 m</td>
</tr>
<tr>
<td>Nominal power</td>
<td>4.4 MW (flexible power rating 4.0-4.8 MW)</td>
</tr>
<tr>
<td>IEC class</td>
<td>S</td>
</tr>
<tr>
<td>Generator output voltage</td>
<td>690 Vac +12%/-10%</td>
</tr>
<tr>
<td>Power factor</td>
<td>± 0.90 Cos Phi</td>
</tr>
<tr>
<td>Grid frequency</td>
<td>60 Hz</td>
</tr>
<tr>
<td>Standard temperature range*</td>
<td>[-20; +45°C] with temperature de-rating</td>
</tr>
<tr>
<td>Noise emission level**</td>
<td>107 dB(A)</td>
</tr>
</tbody>
</table>

* Additional low temperature variant available.
** Lower noise modes available.
**SWT-DD-130**

~9% more AEP compared to the SWT-3.6-130

- Available only for Japan.
- Full adaptability and optimized power for Class IB projects.
- Upgraded for typhoon class sites as METI conditions.
- Over 11.3 GW installation for direct drive turbines.
- Flexible rating strategy available with 3.55 MW to 4.3 MW.
- Maximum acoustic emission of 107 dBA.

* Figures as of CY4Q2023.
The world’s first Onshore ‘Class T’ turbine

- Available only for Japan.
- Maximizing returns in high-wind conditions.
- Designed for typhoon class sites as METI conditions.
- Over 11.3 GW installation for direct drive turbines.
- Flexible rating strategy available with 3.9 MW to 4.3 MW.
- Maximum acoustic emission of 107 dBA.

Key milestones

- **3Q2017**
  Official market launch (Husum)

- **2Q2018**
  First Prototype and Prototype Certificate

- **1Q2019**
  IEC Type Certification
  Serial Production

* Figures as of CY4Q2023.
SG 3.4-132
The 3 MW solution for the French market

- Designed for medium- and high-wind sites.
- Based on the long track record Siemens Gamesa 3.X platform:
  - Same technologies adopted in the 2.1 MW and 2.6 MW solutions.
  - Flexible power rating from 3.0 MW to 3.75 MW.
  - Over 7 GW* in firm orders.

* Figures as of CY4Q2023.

Swept area increase: +34%
Increased capacity factor for greater returns

- Available only for North America.
- Designed for medium- and low-wind sites, class S.
- Built on the foundation of the proven 2.3 MW geared product series, one of the most robust and successful turbine lines in the market. 11,212* units installed globally.
- Application Modes with power output up to 3.1 MW.
- IntegralBlade® technology, DinoTails® Next Generation, Vortex Generators and optimized cross-sections (airfoils) design.
- Based on continuous innovation and with a 25-year design lifetime.
- Suitable for repowering applications.

* Figures as of CY4Q2023.
Service is in our DNA

Service mindset
First OEM with a dedicated service organization with digital backbone.

Global reach with local focus
Active in 60 countries organized in 5 regions providing global access.

Track record
Strong track record 83.7 GW under service and undisputable leadership in OF.

Fleet expertise
Continuous development of multibrand expertise.

We never compromise on safety

Transparent reporting to drive down our Total Recordable Injury and Lost Time Injury Rates.
- Analysis of trends and areas for improvement.
- Incident investigations to prevent reoccurrence.
- Contractors included in all aspects of our safety performance.

Proactive control measures and education to deliver improved EHS performance.
- Robust risk assessments to ensure safe operations.
- EHS programs based upon high-risk activities and operational control.
- Real world effective safety training.

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Innovation on asset and plant level as a key focus for Siemens Gamesa to drive performance and improve customer returns
Service established as strong lifetime partner towards the customer via a broad portfolio offering

**Customer benefits**

- **Higher output and revenues**
  - Maximize uptime and reliability via innovative solutions to maximize performance and availability.

- **Full cost control**
  - Turn data into valuable knowledge to maximize customer insight and enable optimized maintenance and performance strategies.

- **Risk mitigation**
  - Optimal control of business risk through warranties and grid management tools.

**Service portfolio**

- **AEP upgrades**
- **Asset Optimization**
- **Knowledge**
- **Spares and Repairs**
- **Best in class expertise**

**Multibrand by nature**
Thank you
Disclaimer

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Contact us

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Head quarters
Parque Tecnológico de Bizkaia – Edif. 222
48170 Zamudio
Spain
comercial_consultas@siemensgamesa.com

siemensgamesa.com