

A NOTE FROM THE CEO



Doron Blachar Chief Executive Officer

Our 2023 Sustainability Report highlights another successful year for Ormat as we continue to expand our operations and uphold our strong commitment to sustainability. Over the past year, we achieved significant milestones in both the Electricity and Energy Storage segments, while optimizing performance across many of our existing power generation facilities.

As a renewable energy company specializing in geothermal technology, we play a crucial role in the global effort to combat climate change by providing communities worldwide with a clean, reliable, and sustainable power source. Geothermal energy is a local resource, recognized as a key contributor to national carbon reduction goals and grid resilience.

We're on a mission to generate power that makes a positive impact.

As leaders in the geothermal energy sector, we have developed a range of innovative products and solutions that continue to drive our success and contribute to the global renewable energy transition. We are on track to reach our goals of 2.1-2.3 GW total operating capacity across our portfolio by the end of 2026, and achieving 2.6-2.8 GW by the end of 2028.

As we expand our portfolio and increase our energy production capabilities globally through geothermal, REG and solar PV sites, as well as, energy storage solutions, we continue to focus on reducing our emissions. Between 2019 (our base year) and 2023, our production portfolio increased by 45%, while our absolute Scope 1 and Scope 2 emissions decreased by 17%. In 2023, we established a target of a 5% annual reduction in Scope 1 and 2 GHG emissions intensity (tCO₂e/MWh) compared to our 2019 baseline year.

We are proud that in 2023, our renewable energy portfolio effectively prevented 2,212,508 metric tons of CO₂e emissions vs. an equivalent amount of power generated by the conventional grid in our facility locations. We continue to invest in R&D to develop innovative sustainable technologies, which offer significant benefits to our customers.

Throughout 2023, our generation capacity expanded significantly, adding 239 MW to our portfolio through development projects and acquisitions. In January 2024, we completed a strategic acquisition, securing 100 MW of renewable energy assets in the U.S., including three geothermal facilities and three solar PV facilities, with additional prospects for future projects.

At Ormat, our commitment to advancing the wellbeing of our people extends to both our employees and the communities where we operate. We place a strong emphasis on contributing to local sustainable development, aiming to create lasting positive environmental, social, and economic impacts. Equally, we are dedicated to nurturing a workplace culture that is safe and secure, as well as inclusive and rich with opportunities for growth. We allocate substantial resources to training and development programs, empowering our employees to achieve their full potential on both personal and professional levels.

We believe diversity, equity, inclusion, and belonging (DEIB) is a key component for developing innovative, diverse ideas and for supporting every employee to reach their individual potential. We are proud that 38% of our Executive Management Team are women.

Our unwavering commitment to sustainability is integrated into every aspect of our business, from daily operations to our long-term strategic planning, and is embraced across all levels of management, including the Board of Directors. In 2023, the Board reinforced this commitment by establishing an ESG Committee, dedicated to addressing environmental, social, and governance issues, with a special focus on environmental concerns. Among its key responsibilities, the Committee evaluates the Company's climate-related risks and opportunities and recommends strategies to reduce our carbon footprint and mitigate other environmental risks.

We are working to enhance the transparency and comparability of our climate-related disclosures and are currently preparing our TCFD report, which will include a qualitative climate scenario analysis. This process will also involve quantifying the potential financial impacts of material climate risks and developing mitigation plans to address them. These efforts will strengthen our decision-making, improve our risk management, and deepen our engagement with stakeholders.

As we look forward to 2024, we anticipate continued success from the effective execution of our growth strategy supported by our ESG approach and strategy. We are confident in our progress toward achieving our goals, which is a testament to the hard work and dedication of our talented employees worldwide. Reflecting on the past year, I am proud of our achievements and excited about the continued growth of our business.

Sincerely,

Doron Blachar Chief Executive Officer

2023 ESG Highlights



8% increase in the **production** compared to 2022

absolute **reduction** in Scope 1 and 2 GHG

2,212,508 tCO2e avoided emissions compared to local electricity grids

of electricity consumption in

of renewable energy in 2023

17%

emissions compared with the 2019 baseline

97%

2023 was from self-generated, sustainable energy



26% of **VPs** in the Company are women

22% of managers¹ in the company are women

0.96 Total Recordable Incident Rate (TRIR)

24.6 average training hours per employee

> \$1,305,205 donated to communities

37% of our employees in the U.S. were from minority groups²



44% women on the Board³

3 out of **5** Board Committees are led by women

ESG Board committee established

97% employees trained on **Anti-corruption and Anti-bribery** policy

Other than VP-level.

in which we operate.

end of 2023.

In the U.S., we categorize minority

groups as defined by the U.S. Dept. of Labor. In other locations

outside the U.S., we do not track

the specific diversity of our workforce; all overseas employees are locally hired and thus are

representative of the communities

This is an increase from 33% at the



Close to 60 years of experience generating renewable energy solutions

\$829M in total

revenues in 2023, a 15% year-over-year increase

1.672 employees worldwide⁴

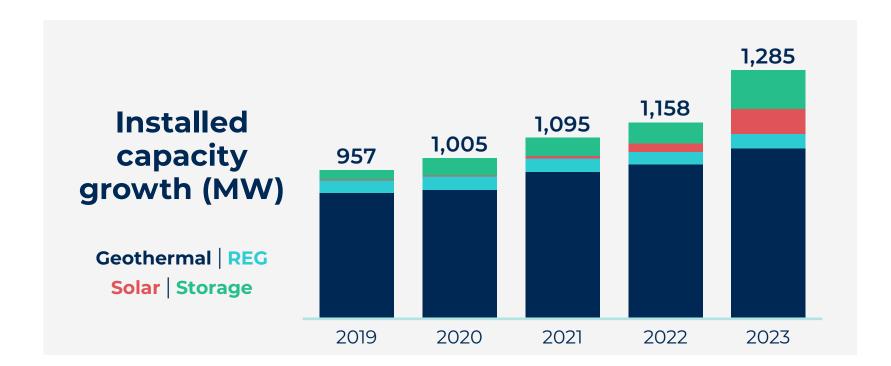
Own & operate:

1,012 MW **Geothermal in 6 countries**

170 MW Energy storage

53 MW Recovered **Energy Generation (REG)**

50 MW Solar PV



Not including employees in Indonesia, New Zealand, and temporary employees

Delivering Renewable Power and Energy **Solutions Around** the World

At Ormat, we provide renewable power and provide clean, reliable energy solutions to customers through geothermal power, energy storage solutions, recovered energy generation (REG), and solar PV. With almost 6 decades of experience, we are a leading geothermal Company, and the only vertically-integrated Company engaged in geothermal and REG. Our business activities are conducted across three business segments:

Electricity Segment

As of the end of 2023, we owned and operated 32 geothermal, REG and solar PV sites globally, with an aggregate generating capacity of 1,285 MW.

Product Segment

We design, manufacture, and sell equipment for geothermal and recovered energy-based electricity generation.

Energy Storage Segment

As of the end of 2023, we owned and operated 170 MW / 298 MW gridconnected in-front-of-the-meter (IFM) as well as Behind-The-Meter (BTM) battery energy storage system (BESS) facilities, which provide capacity, energy, and ancillary services directly to the electric grid.

In the past two years, Ormat has invested nearly \$1B in low-carbon energy solutions in the U.S. and globally



ESG Governance

In 2023, Ormat established an ESG Committee within the Board of Directors to reinforce our commitment to environmental, social, and governance (ESG) matters, with a strong focus on environmental issues. The Committee, led by an experienced energy sector professional, meets at least twice a year to review ESG performance and reporting, evaluates climaterelated risks and opportunities, recommends strategies to reduce the carbon footprint, and ensures alignment with the company's business strategy. It reports and makes recommendations to the Board of Directors.

The Ormat ESG Team, led by the VP of Investor Relations and ESG Planning and Reporting, oversees the implementation of our ESG strategy. Global EHS performance is managed by the VP of Environmental, Health & Safety (EHS), while the EVP of HR handles ESG social programs, and the General Counsel & Chief Compliance Officer addresses governance issues. Senior managers across departments contribute to ESG efforts.



BOARD LEVEL

Oversight and guidance on ESG related matters to the Board

→ ESG TEAM

Reports directly to CFO, senior leadership, and ESG Committee of the Board

GREEN BOND COMMITTEE

Reviews projects aligned with Green Finance Framework to fund Eligible Green Projects

Strengthening Climate Disclosures

Our core business operations help contribute to addressing climate change and the need to reduce worldwide GHG emissions. We are committed to reaching our ESG goals in a transparent and ethical manner.

We have taken several important steps to further develop our ESG program and strategy, mitigate risks, and identify opportunities. Activities include:

- Materiality analysis to enhance our ESG program.
- We have voluntarily reported to the CDP for six consecutive years. Our latest report earned a 'B' score, indicating coordinated action on climate issues. This score is higher than the North American average of 'C' and matches the average for the renewable power generation sector.
- Climate risk analysis to detect material physical and transitional risks
- Gap analysis to map compliance with the Task Force on Climate-Related Financial Disclosures (TCFD) recommendations

We are conducting climate scenario analysis and assessing the accounting interpretation of identified climate risks to build a TCFD reporting framework, in line with SEC and California's Climate Rules. Additionally, we will quantify the potential financial impacts of these risks and develop mitigation plans.

We have also started setting near- and long-term carbon reduction targets aligned with GHG Protocol and SBTi guidance. Our decarbonization model highlights key areas for emission reduction, primarily residual emissions. We are evaluating the costs and risks of reducing these emissions and will hold our SBTi application until this evaluation is complete.



- DEIB sessions: Workshops and presentations on diversity benefits and unique departmental contributions
- Health & Wellness: nutritionist, health coach, sports competitions, mental health awareness, etc.
- Safety training: Safety training on equipment, first aid, and confined spaces



In 2023, we held the first company wide ESG Week to raise awareness of our ESG activities and programs for our employees and local communities. Events were organized in over 40 **locations across eight countries** and featured a range of activities, lectures, and training related to ESG topics.

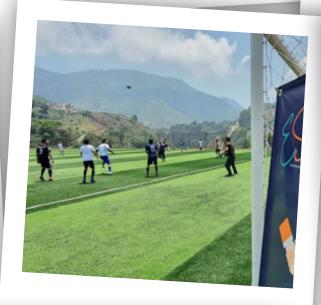














- Good governance: compliance training, data privacy
- ESG education: Climate Change, ESG Success stories at Ormat, SDGs drawing competiotion
- Creating a safe work environment: discrimination and antiharassment training



- Leadership & Professional Development: improving communication skills and time management
- Volunteer activities: tree planting, food donations, creating a vertical garden, cleaning days





ENVIRONMENT

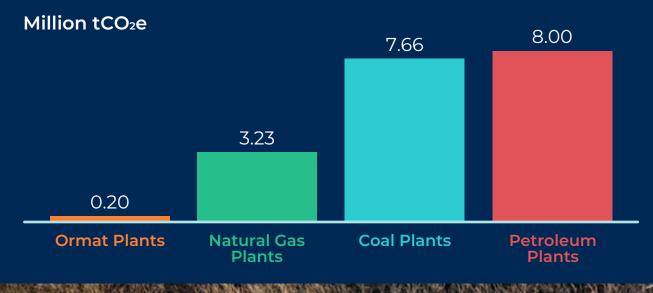
We are leaders in the geothermal energy sector, and we have developed a range of innovative products and solutions that continue to drive our success and contribute to the global renewable energy transition.

Our activities have an inherent positive impact not only on our own operations, as we consume the sustainable energy we produce to run our power plants, but also across the value chain, as we minimize the GHG emissions of electricity grids around the world to supply residents and other consumers with reliable, renewable energy.

Our comprehensive environmental management approach ensures consistent policies and methodologies across all facilities. The 'Environment and Climate Change' and 'Ormat Integrated Quality, Environment, Health and Safety' Policies highlight our commitment to environmental sustainability, managing relevant risks and opportunities effectively.

Ormat as a Pathway to a Net Zero Future

Ormat's geothermal power plants have significantly lower CO₂e emissions compared to power plants that run on coal or other fossil fuels for the equivalent amount of power.⁵





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vs. to 2022

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2 GHG emissions
from the 2019
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2,212,508
tCO₂e avoided
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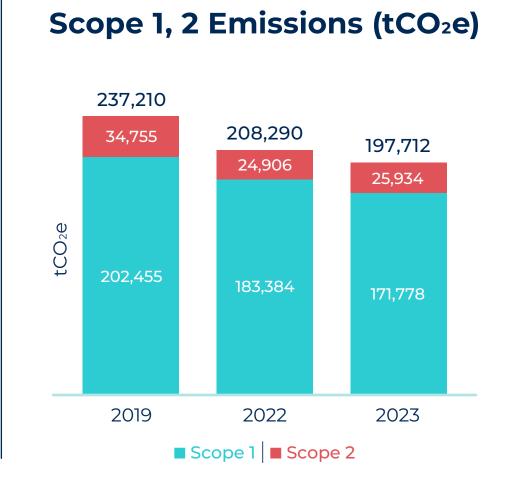
97%
of electricity
consumption was
self-generated
renewable energy

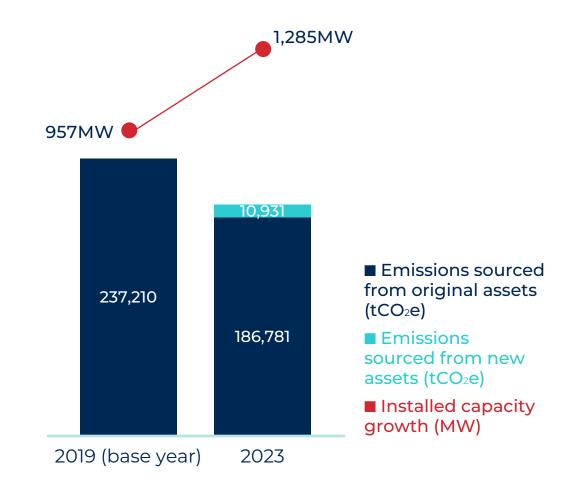


Our GHG Emissions

- In 2023, we established a target of a **5% annual reduction** in Scope 1 and 2 GHG emissions intensity (tCO₂e/MWh) compared to our 2019 baseline year. We achieved this annual reduction target in 2023.
- Our Scope 1 GHG emissions for 2023 totaled 171,778 metric tons of CO₂e. This represents **a 15% decrease** compared to our 2019 base year, and a 6% decrease compared to 2022.
- Our Scope 2 GHG emissions for 2023 totaled 25,934 tonnes of CO₂e. This represents a decrease of 25% compared to our 2019 base year and a 4% increase compared to 2022.
- Our 2023 **Scope 1 & 2 GHG emissions intensity by power generation** was 27.0 kgCO₂e per MWh. This represents a decrease of 28% compared to our 2019 base year, and a 12% decrease compared to 2022.
- Our absolute Scope 1 and Scope 2 GHG emissions for 2023 totaled 197,712 metric tons of CO₂e, this represents a 17% decrease compared to our 2019 base year, and a 5% decrease compared to 2022. With a 34% increase in our production portfolio since 2019, emissions would have decreased by 21% if we excluded new assets acquired by Ormat.







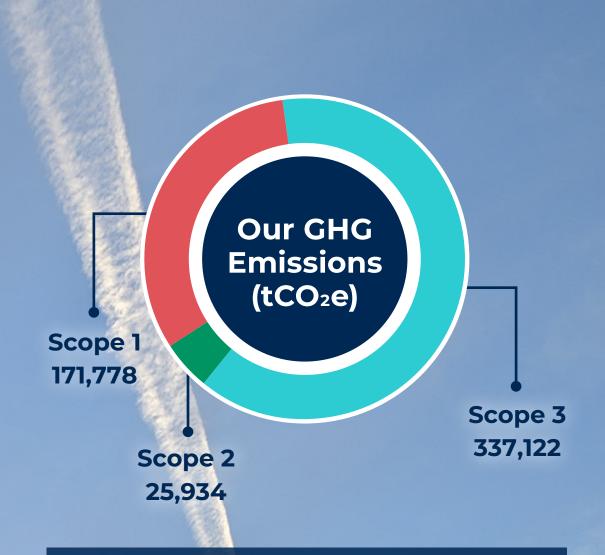
10 SUSTAINABILITY REPORT 2023

Ormat actively works to reduce the GHG emissions that we generate through our operations and business practices, and we are committed to mitigating the effects of climate change. We closely track these emissions, with the aim to reduce them globally.

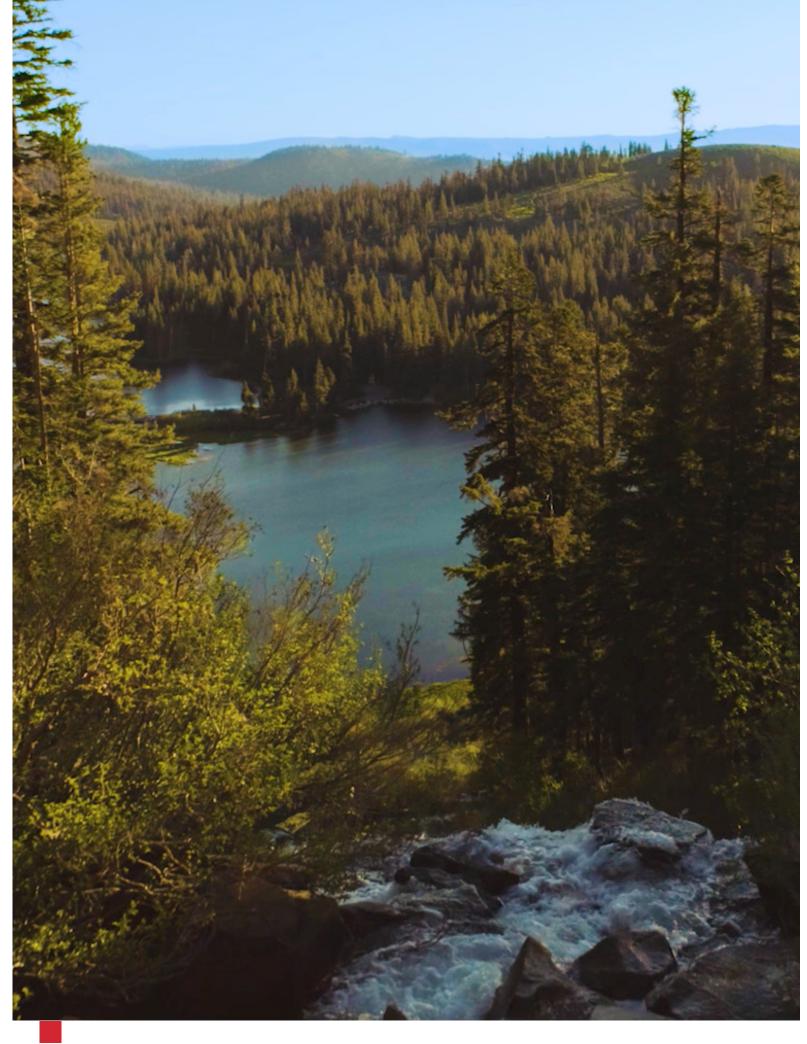
Key factors driving Ormat's emissions reduction from 2022 to 2023:

Change in Scope 1&2 GHG Emissions





In 2023, we comprehensively mapped Scope 3 emissions across our value chain, building on previous measurement efforts. Using the GHG Protocol's methodology, we assessed all 15 Scope 3 categories and identified the main sources of our emissions.



Water reservoir near Mammoth Complex, CA, U.S.

Managing our Water Use



Management of water resources is of key importance to Ormat and our stakeholders. This includes managing water required for cooling in geothermal energy generation, as well as water resources used for other processes. The Ormat Water Management **Policy** outlines our commitment to sustainable water use, especially in waterstressed areas. We aim to exceed local environmental compliance, ensuring long-term water security for the communities we operate in.

Water Usage and Sources

In 2023, our water consumption was 20,639,331 m³, a 1.5% increase from 2022. Over 90% of our water use is for water-cooled plants, with hybrid air/water systems implemented where possible to reduce consumption. We strive to minimize freshwater use, with 19% of our water in 2023 being non-freshwater.

We actively seek solutions to reduce or recycle water usage. In 2023, we switched to hybrid air cooling at our Heber 2 site and partnered with a local spice company at the Brady geothermal plant to reuse heated water.

Managing our Waste

Our waste management process is strategically planned, implemented, measured, and monitored for continuous improvement. This includes the safe treatment of waste, hazardous materials, and recycling efforts.

In 2023, 52% of regular (non-hazardous) waste and 53% of total waste (nonhazardous and hazardous) were recycled. Hazardous waste, such as industrial lubricants and organic motive fluids, is managed and disposed of in compliance with local regulations and internal guidelines.



Ormat is dedicated to protecting biodiversity and minimizing environmental impacts. From the design stage, we collaborate with local communities, NGOs, and experts to support local flora and fauna, continuously researching ways to reduce our environmental footprint.



Geoscience team reviewing exploration results, NV, U.S.



Environmental Impact Assessments

Managing Our Impact on Biodiversity

Exploration

Conduct environmental and social impact assessments (ESIA) to evaluate potential impacts.



Planning & Construction

Develop site-specific plans to minimize impacts on natural lands and wildlife.



Operations & Maintenance

Implement environmental action plans to address ongoing and potential impacts.

Selected biodiversity initiatives

- Noise Mitigation for Sage Grouse: At the McGinness Hills geothermal plant in Nevada, Ormat implemented measures to reduce ambient sound during the Sage Grouse breeding season, including timing restrictions and noise barriers around equipment.
- **Dixie Valley Toad:** In 2023, Ormat requested a supplemental NEPA review for the Dixie Meadows Geothermal Project in Nevada to ensure thorough environmental impact assessment and mitigation. The plan includes extensive water quality monitoring and support for Dixie Valley toad population studies.



38% of executives and 20% of all employees are women

82% retention rate

24.6 average hours of training per employee

100% of plant management employed from local communities

37% of employees in the U.S. from minority groups⁶

100%
participation rate in performance reviews⁷

- In the U.S., we categorize minority groups as defined by the U.S. Dept. of Labor. In other locations outside the U.S., we do not track the specific diversity of our workforce; all overseas employees are locally hired and thus are representative of the communities in which we operate.
- 7 Refers to permanent employees only, who make up 92% of the company.

Providing a Healthy & Safe Workplace

At Ormat, we prioritize creating a safe working environment while operating in complex environments with industrial equipment and infrastructures. We adhere to OHSAS 18001 at our sites and ISO 45001 at our manufacturing facility. Our comprehensive safety framework features standardized policies, extensive training programs, and tailored local safety training. We adopt a proactive approach with continuous safety data monitoring, key performance indicators (KPIs), and regular communication to maintain vigilance and accountability. Notably, our initiatives, including a focus on ergonomics and the 'Use the Right Tool & PPE for the Job' campaign, have been highly successful, achieving zero hand injuries in 2023.

In 2023, our Total Recordable Incident Rate (TRIR) was 0.96, with zero fatalities. This year's TRIR includes data from our Turkey site, which was not included in previous years.

Total Recordable Incident Rate (TRIR)



Electricity Segments | Electrical Production

Diversity, Equity, Inclusion, and Belonging (DEIB)

At Ormat, we are dedicated to creating a diverse and inclusive work environment, providing equal opportunities in hiring and career development regardless of race, gender, ethnicity, religion, disability, or sexual orientation.

In 2023, we focused on building a diversity mindset through DEIB training and celebrated Women's History Month and Pride Month. We are forming a Diversity Committee to promote gender and ethnic equality, and we ensure all employees feel welcome by celebrating various holidays and communal events.

We have a diverse workforce spanning four generations, with 15% under 30 and 10% over 60. We are committed to increasing the number of women in all departments and management levels, supporting equal pay, and developing a diverse talent pipeline. Notably, we launched a scholarship program for women in mechanical engineering and actively participate in networks that aim to promote gender equality in the energy sector.

Development & Wellbeing

We strive to create a workplace environment for employees that promotes their development and well-being. In 2023, we expanded our Learning Management System (LMS) globally, ensuring consistent training and tracking of employee progress to identify areas for further individual development. We also launched a comprehensive manager training program to foster effective leadership and improve communication and collaboration across all levels.

Our company-wide employee engagement survey saw an impressive 89% participation rate, reflecting strong engagement. Additionally, we revamped our performance review process, introducing a new system in the U.S. with positive feedback, and plan to implement it globally in 2024.



Supporting Sustainable Communities

We view the communities in which we operate as our partners, and we put great emphasis on working to support local sustainable community development that has positive environmental, social, and economic impacts. Our role as an organization that creates inclusive economic growth, drives local progress, and improves living standards is central to what we do and is grounded in our core values.

- Local Employment: Ormat prioritizes hiring locally, creating job opportunities and fostering economic growth within communities.
- Community Engagement: The company actively engages with local communities to build strong, long-term relationships and address their unique needs.
- Community Development: Ormat invests in initiatives that empower women and youth, promote community health, and support environmental resilience and infrastructure.

In 2023, we donated over \$1.3 million, representing 1.1% of our net income, to sustainable community development projects. These investments are carefully overseen to ensure they reach the intended beneficiaries and align with our community engagement goals.



Empowering Women & Youth

- Israel: ORT Ormat High School prepares students for technical careers, with many graduates joining Ormat and advancing to senior positions. This program ensures a steady pipeline of skilled professionals.
- Orzunil, Guatemala: Subsidizing teacher salaries, providing school supplies, and offering transportation. In 2023, we built a new playground, adapted a kindergarten class, and hired new teachers. We also provide sponsorships and necessities to local students.



Promoting Community Health

- Honduras: Partnering with CAMO to provide over 500 patient visits in 2023, including dental, vision, and mammogram services. We also donate food baskets to improve nutrition for around 500 families.
- **Kenya:** Establishing a community health clinic with consultation rooms and a pharmacy, focusing on prenatal and postnatal care, child immunization, and nutrition.
- Nevada, U.S.: Ormat supports the Food Bank of Northern Nevada through food drives and financial donations. We also sponsor events like 'Moms on the Run' to support women dealing with cancer.

Supporting Environmental Resilience & Infrastructure

- Honduras: Reconstructing the Los Tablones waterline, supplying water to over 400 houses, and providing materials for local restroom construction projects.
- Guatemala (Ortitlan): Improving school infrastructure by repairing roofs, restrooms, sports fields, and playgrounds at three public schools.
- Tree Planting: Ormat is consistently engaged in reforestation activities. In 2023 alone, we planted over 13,000 trees in Honduras, Guatemala, Kenya and the US. These efforts involve local schools and volunteers, fostering environmental stewardship and community engagement. Additionally, Ormat donated 1,400 trees, one for each global employee, through the Arbor Day Foundation.





ORA LISTED NYSE

ESG Committee established on the Board

89%
Independent
Board
Members

out of 5
Board
Committees
led by Women

88%
Local
Procurement

97%
Employees
Trained
on Anticorruption and
Anti-bribery
Policy

Corporate Governance

The Ormat Board of Directors oversees the company's management to align with the best interests of the Company and its stakeholders. Throughout the year, the Board and senior management discuss industry trends, risks, opportunities, and strategic priorities, providing oversight on risk assessment and mitigation efforts.

In 2023, as a reflection of the company's commitment to environmental, social and governance matters, an ESG Committee was established on the board level.

Diversity of the Board

The Nominating and Corporate Governance Committee aims to ensure Board diversity, adhering to a philosophy of non-discrimination. The Board comprises directors with varied backgrounds and expertise in areas such as energy, ESG, finance, IT, and audits.

In 2023, there were 3 female directors. In May 2024, another female director joined, for a total of 4 female directors. Among these directors, 2 were from Asia and 2 were from the Middle East/North Africa.



Analyst day, NY, U.S.

Executive Compensation

The Compensation Committee, composed entirely of independent directors, oversees executive compensation, including annual cash bonuses and long-term equity incentives. Compensation is based on performance metrics such as financial guidance, growth, and ESG-related achievements. These includes:

 The development of successful employment retention programs and an enhanced focus on leadership development.

- Environmental management, including the publication of new ESG policies, reduced carbon footprint with respect to Scope 1 and 2 emissions, and increased disclosure and transparency of Scope 3 emissions.
- Diversity, equity, and inclusion achievements, including the number of women in the global executive management team and a strong representation of local communities among senior management at our global plants.

This is an increase from 33% at the end of 2023.



Ethical Business Practices

Ormat is committed to the highest ethical standards, with policies promoting honest conduct, compliance with laws, and prompt reporting of unethical behavior.

The Code of Business Conduct and Ethics applies to all employees and third parties, and the Ormat Code of Ethics for Senior Executives was developed specifically for our principal executive, financial, and accounting officers. Ormat's Corporate Governance Guidelines establish the governance framework for management of the Company.

The Ormat *Whistleblower policy* details the procedures for reporting and investigating complaints are in place, ensuring no retaliatory actions against whistleblowers. **In 2023, no serious compliance incidents were reported.**

The Ormat *Anti-Bribery and Anti-Corruption* policy prohibits corrupt payments and ensures compliance with global anti-corruption laws. In 2023, 97% of employees completed training on this policy.

Employees are required to review and acknowledge certain policies annually, including the Code of Business Conduct and Ethics and the Anti-Bribery and Anti-Corruption Policy. We aim for 100% of our employees to receive training on relevant corporate governance practices every year.



CD4 Power Plant constructions

Responsible Supply Chain and Procurement

Ormat upholds high ethical standards through its *Supplier Code of Conduct*, which mandates adherence to ethics, labor and human rights, environmental practices, and quality systems for all suppliers.

To promote ESG initiatives, in 2023, new suppliers are required to complete a self-assessment covering environmental management, human rights, and governance.

Additionally, Ormat's *Human Rights and Labor policy* is regularly communicated to stakeholders, ensuring a consistent commitment to human rights across its operations. This policy emphasizes the prohibition of child labor, the right to freedom of association and collective bargaining, the elimination of discrimination, and the protection of health and safety standards.

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ABOUT THIS SUMMARY

This is an executive summary of Ormat's 2023 Sustainability report, which covers our Sustainability activities and ESG performance for the calendar year 2023. This summary highlights selected ESG-related measures, initiatives, activities and figures.

For further information, please see the 2023 Sustainability Report.

Stakeholders who are interested in understanding or clarifying the information presented, or who have questions regarding the content of the report, are welcome to contact us through one of the following channels:

- Requests for general information:
 IR@ormat.com
- Requests for sustainability-related information: sustainability@ormat.com
- Online contact form: www.ormat.com/en/company/contact/main/
- Mail requests
 Ormat Technologies, Inc.
 6140 Plumas Street
 Reno, NV 89519-6075 USA

