

Oracle's Journey to a More Sustainable Future

5th Annual

Global Supply Chain Excellence Summit

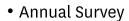
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Our Sustainability Path

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- CDP rating now "A-Gold"
- Other awards and recognitions
- Moving from Relative to Absolute goals
- Strengthening alignment to core business strategy

Business and Societal Need

- Climate Change / Globalization
- Regulatory Pressures
- Stakeholder Expectations
- ICT as a Opportunity & Target

Results & Executive Commitment

- CEO Support
- Published environmental policy
- Creation of CSO Role and team

- Materiality Assessment
- CDP Engagement
- CSR Expansion
- Regular Goal Setting
- Internal awareness workshops

Priorities,
Programs &
Goals

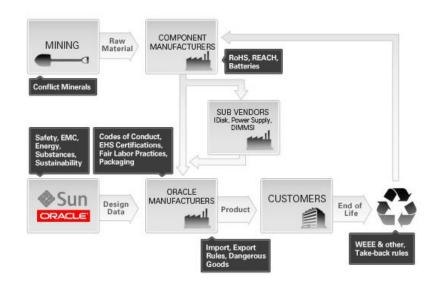
Cross-Functional Organization

- Embedding in every LOB
- Coordination via Environmental Steering Committee
- Focused Workgroups

Sustainable Supply Chain

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- Oracle manages its supply chain to comply with all applicable regulations
- Sustainability is a consideration throughout every phase of product lifecycles
- Oracle employs socially and environmentally responsible business and sourcing practices, including:
 - Supplier code of ethics and business conduct
 - Human rights and conflict minerals
 - Recycling and recovery program for workplace assets
 - Sustainable procurement statement and leveraging technology for
 - Supplier diversity program
 - Travel reduction
- Oracle is also engaged with industry, trade, and government organizations and associations

















Center for Global Supply Chain Management

- Radical transformation of our hardware supply chain:
 - Build to Stock to Build to Order
 - Fragmented Sourcing to selected Single Sourcing
 - Revenue based forecasting to Unit Based Forecasting
 - 3+ Tier Distribution to Direct Ship
 - Lowest Deliver Time to Most Predictable Delivery Time
 - Single Supply Chain Model to Dual Model
 - Fragmented IT systems to Integrated System
 - From a failing business at Sun to a profitable one in Oracle
- Results in first year \$100m reduction in Excess and Obsolete

A great example of a Triple Bottom Line Benefit

Our Sustainability Path

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So What's Next?

Business and Societal Need

- Climate Change / Globalization
- Regulatory Pressures
- Stakeholder Expectations
- ICT as a Opportunity & Target

Annual Survey

- CDP rating now "A-Gold"
- Other awards and recognitions
- Moving from Relative to Absolute goals
- Strengthening alignment to core business strategy

Results & Feedback

Executive Commitment

- CEO Support
- Published environmental policy
- Creation of CSO Role and team

• Materiality Assessment

- CDP Engagement
- CSR Expansion
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Priorities,
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Goals

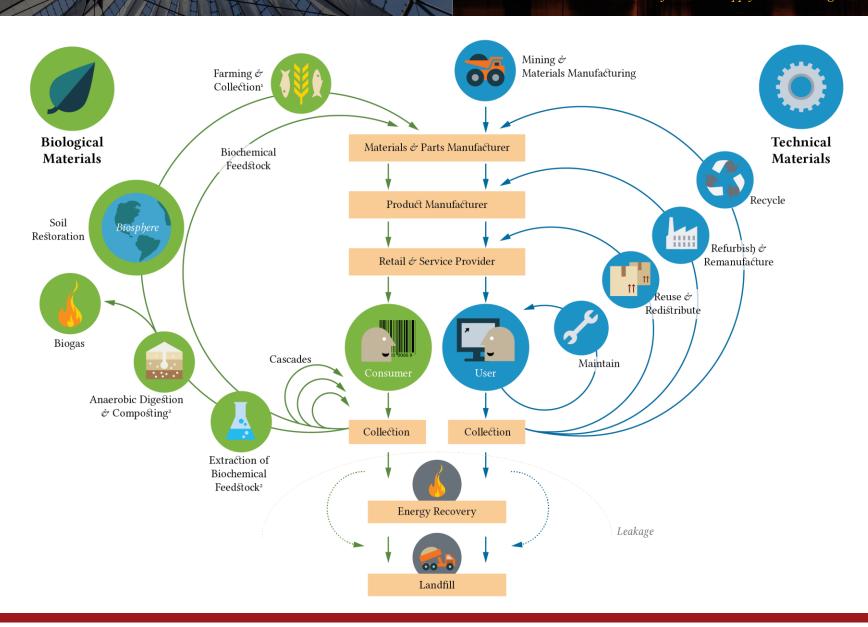


Cross-Functional Organization

- Embedding in LOB
- Coordination via Environmental Steering Committee
- Focused Workgroups

The Circular Economy

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Traditional On-Premise IT Solutions

- Multiple, Inefficient Data Centers
- General Purpose Hardware
- Low Server Utilization
- Low Functional Utilization
- Linear Product Supply Chain

Modern Cloud Solutions

- Fewer, Highly Efficient Data Centers
- Hardware Tuned to Use-Case
- Higher Server Utilization
- Higher Functional Adoption
- Circular Service Supply Chain

Cloud is an ideal paradigm for a more Circular approach to IT

- Beyond its inherent business benefits, the cloud offers a more sustainable alternative for companies looking to minimize their environmental impact
- Cloud enables customers to take advantage of highly efficient cloud infrastructure optimized for processing, energy, and cooling efficiency:
 - E.g. Oracle Utah and Oracle Austin are 70% more efficient than legacy enterprise data centers
 - Both data centers are EPA Entergy Star certified
- Reduced environmental waste by maximizing the reuse and recycling of hardware, aligning with the <u>circular economy</u>
- Increased leverage through <u>The Corporate</u> <u>Colocation and Cloud Buyers' Principles</u>







Product Stewardship

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- Over 3 million pounds of product was taken back in FY16, of which 99.6% was either recycled or reused
- Product take back program provides a valuable service to Oracle customers as they migrate to new technology
- Spares harvesting for reuse enables the extension of product support to other Oracle customers
- The <u>program</u> is compliant with recycling, environmental, export and data security regulations
- Financial recovery supports Oracle's long term <u>circular economy</u> objectives



Oracle recycling partner in Roseville, California

Recovery & Reuse greatly simplified through maintaining control of IT assets in the Cloud

Product Design

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- Oracle recognizes that the environmental impact of a product is largely determined at the design stage
- Among the environmental criteria we consider are:
 - energy efficiency
 - product serviceability
 - recyclability
 - upgradability
 - material conservation
 - hazardous material requirements



Design for Environment workshop held in Santa Clara. California

Server design now being optimized for specific Cloud data centers configurations, Cloud application use cases, and our own Cloud recovery and reuse.

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 Embedding environmental considerations into all supply chain business processes

Measure, manage, and optimize







Ideation



Design









Procurement







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- Sustainability is everyone's business.
- Global Supply Chains provide great opportunities for organizations to become more sustainable.
- Technology is a sustainability enabler.

For more information:

www.oracle.com/citizenship

www.oracle.com/green

www.youtube.com/OracleSustainability



The World has Changed

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POPULATION GROWTH

7.3 Billion

World population estimated in 2015



9.7 Billion

Projected by 2050

CONSUMER GROWTH

2X

Middle class nearly doubling in size by 2030

By 2030 middle class grows to nearly

5 Billion



EMISSIONS GROWTH

1.2 Billion

Cars globally in 2014



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By 2035 projected to grow to

2 Billion

RESOURCE ISSUES

Energy Volatility



Resource **Scarcity**

Electronic Waste



Conflict minerals

CLIMATE DISRUPTION

\$53 Billion

Climate-related economic damages in 2016 across the United States



FINANCIAL BURDEN

Growth

in environmental fines



Increasing

producer responsibilities



Rising

commodity prices



 The ICT sector consumes approximately 7
 percent of global electricity



 Data centers energy demand is estimated to increase by 81 percent by 2020



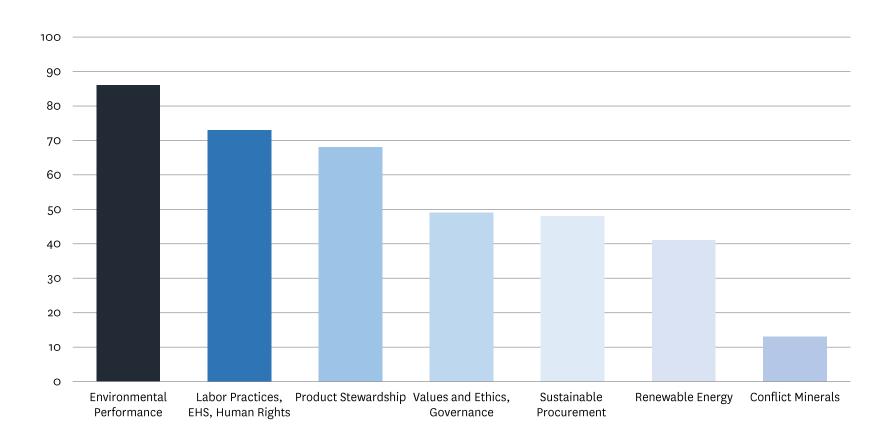
 ICT-enabled solutions offer the potential to reduce global 2020 GHG emissions by 16.5 percent



 A threefold increase in global internet traffic by 2020 will bring over 4
 billion people online globally

Source: Greenpeace

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• 165 inquiries related to \$1.12B in revenue

 Millennials are 66 percent more likely to choose employers when issues of social and environmental responsibility are brought to the forefront

 84 percent of Americans believe businesses have a responsibility to bring social change on important issues to the forefront

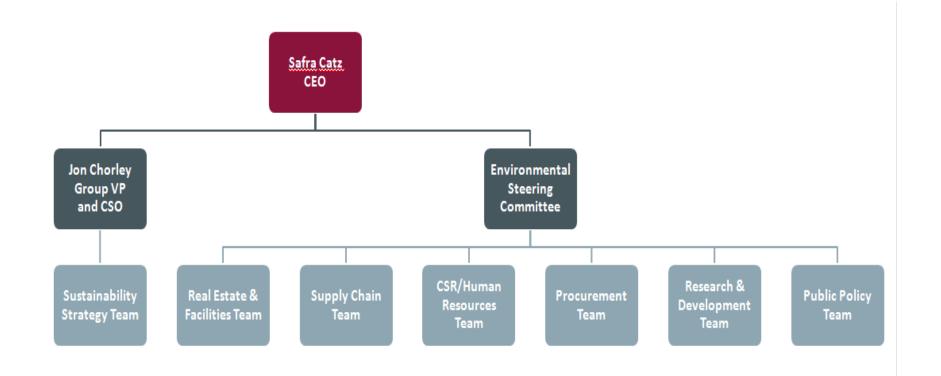
Source: Global Strategy Group

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"For Oracle, corporate citizenship means being responsible not only to our shareholders, but also to our stakeholders—those affected by and with an interest in our activities—including employees, customers, partners, society, and the environment."

Safra Catz, Chief Executive Officer



- Annual Meeting (All)
- Quarterly Meetings (ESC)
- Monthly Meetings (Leads)

Materiality Assessment

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ier 1		
Education and digital inclusion Emissions in the cloud	Financial performanceProduct stewardship	 Responsible supply chain and sustainable procurement Sustainable product design
ier 2	1 Todact Stewardship	Sustainable product design
Corporate giving	✓ Governance	✓ Values and ethics
Data privacy and security	Health, safety, and wellness	Waste from operations
Diversity and inclusion	Non-data center emissions	
Employee engagement and development	Use of water in operations	
ier 3		
Employee travel	Product packaging	Transportation and logistics
Events management	 Public policy 	

The topics are listed alphabetically within each tier. Tier 1 represents topics that are most material to Oracle. Only material topics are shown.

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Well-structured sustainable practices deliver triple bottom line benefits to people, planet and profits

- Sustainable Facilities
- Sustainable Data Centers
- Sustainability Solutions
- Sustainability in the Cloud

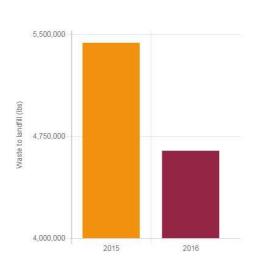
- Sustainable Supply Chain
- Product Stewardship
- Product Design
- Employee Engagement



"At Oracle, sustainability is everyone's business. We maintain our facilities and run our business in a responsible manner, minimizing environmental impact. We also develop products and services that support sustainable operations and initiatives—ours and others'."

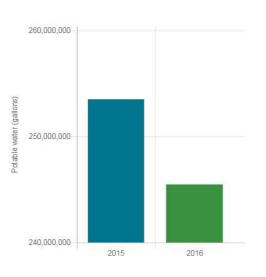
Waste to Landfill

 Last year, reduced total waste to landfill by more than 21%



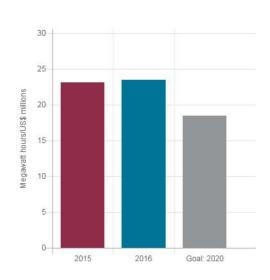
Potable Water Use

• Exceeded 2016 goal by 15%



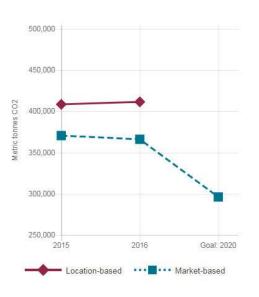
Energy Use Per Revenue

 29% of that electricity usage now sourced renewably



Total Scope 1 & 2 Emissions

Moved from "D" to "A" rating in CDP



Sustainability goals

by 2020 to reduce energy use and absolute emissions by 20%, potable water use and waste by 25% per sq. ft. and use 33% renewable energy

2020 goals measured against 2015 baseline. Energy / emission / renewable goals are scope 1 and 2. Energy and emissions goals measured for leased and owned facilities, including data centers. Water and waste goals measured for owned facilities, only, including data centers.

Learn more at

oracle.com/citizenship