October 12, 2013, CBSG launched the “Zoos and Aquariums for 350” Climate Change Movement at their Annual Meeting in Orlando, Florida, USA.

Over one hundred participants from international zoos, aquariums, and conservation organizations joined in the event, learning about the Zoos and Aquariums for 350 movement and how to implement it in their home institutions.

The Zoos and Aquariums for 350 Movement (Z&A for 350) calls on zoos and aquariums to divest their institutions’ investments from fossil fuel companies, reduce carbon footprints and offset remaining carbon emissions, and engage in climate change education initiatives.

The Z&A for 350 Movement has three components:

**Divestment**
Zoos that invest money can choose to divest from fossil fuel companies and reinvest in solutions that align with their mission of conservation.

**Carbon Offsetting**
The Zoos and Aquariums for 350 Carbon Offset Initiative, supported by the World Association of Zoos and Aquariums (WAZA), is in place to help zoos and aquariums that have already reduced their carbon footprint as much as possible to compensate for their institutions’ unavoidable carbon emissions through the purchase of credible, additional, and sustainable carbon offsets.

**Show the Wild Face of Climate Change**
Clear communication about the effects of climate change on all species is a key piece to the puzzle. Many zoos already communicate with their visitors about this threat, and here is one more way to invite zoo keepers and visitors to add their own voices to the mix.

Z&A for 350 joins 350.org, an organization that is building a global, grassroots movement to solve the climate crisis. Phil Aroneanu, one of the founders of 350.org, helped kick off the movement and share his experiences leading one of the biggest climate change movements in the world.

Scientific evidence shows that climate change will become a primary driver of species extinction in the coming century. CBSG is focusing attention on the issue of climate change due to the urgency of the threat to species and the need for accelerated action in the search for solutions. Acting on climate change aligns with our mission to “save threatened species by increasing the effectiveness of conservation efforts worldwide.”

If this short item has piqued your interest please go through the material in the next 9 pages. This is the CBSG Zoo and Aquarium Climate Change Movement Handbook reprinted with permission from CBSG.

**Appeal from Onnie Byers, CBSG Chair**

Dear Colleague,

350.org is a global movement dedicated to bringing atmospheric levels of CO₂ back to 350 ppm and improving life on a changed planet. We believe that this effort should be expanded to include the zoo and aquarium community and we are inviting you to help lead the way.

Zoos and the 350.org movement make a perfect partnership. Zoos’ strong local ties to their communities and legislators give them a unique position that no other conservation organization has. By joining the movement, greening your institution and your portfolio, you are making an investment in a livable future for our children and for wildlife. What could be more closely aligned with the mission of zoos and aquariums than to conserve nature and teach children about its wonder?

We feel that now is the time for us to join the 350 movement which is gaining momentum across the globe. Together we have the opportunity to take a leadership role in action to rescue the planet from destruction; the chance to tackle the source of the problem that, if left unaddressed, will continue to undermine all of our conservation efforts.

I hope that once you have reviewed this handbook, you will be inspired to join the Zoos and Aquariums for 350 Climate Change Movement. Together the true impact of this ambitious commitment by our community will be fully recognized.

Onnie Byers
Chair, IUCN SSC Conservation Breeding Specialist Group
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Introduction

THE STAKES

It’s time to write a new chapter in the fight against climate change.

Scientific evidence increasingly shows that climate change will become a primary driver of species extinction in the coming century. In 2012, the amount of carbon in the atmosphere crept toward 400 ppm. Ice melts, seas rise, oceans acidify, and temperatures increase. The International Union for Conservation of Nature reports that 70-80% of birds, amphibians and corals that are already threatened are also climate change-susceptible.

Scientists tell us that in order to keep global temperatures from rising above 2°Celsius—the target widely adopted by governments worldwide as the threshold to prevent dangerous human-caused interference with the climate—the world needs to drastically limit greenhouse gas emissions.

Despite these efforts and those of countless other organizations and individuals around the globe, it has become clear that without government in our corner, individual and institutional measures will not be enough. As long as the threat of fossil fuel-induced carbon overload hovers over our heads, stopping climate change with individual and even isolated institutional actions is untenable. We can’t keep up.

Government policies are necessary to slow the rampant extraction and burning of fossil fuels and to move in the direction of alternative energy solutions. But so far government action has been dismal, thanks in part to the influence of fossil fuel companies, who stand to profit from denying climate change and continuing business as usual. The lack of participation from high-emitting nations like the US and China has foiled the success of international efforts and agreements. This calls for weaving together our individual actions to form a movement that will reverberate to the highest levels of government.

Many zoo mission statements often focus on conservation and education. These missions center on two groups—endangered species and children—that stand to suffer the most from harmful climate change effects. Their knowledge of what is at hand calls for zoos and aquariums to not only communicate about climate change in honest terms to the public, but to harness the energy and resources of their community to pursue creative solutions.

THE NUMBERS

A 2012 Rolling Stone article by environmental writer and founder of 350.org Bill McKibben simplified the complex science of climate change, with a focus on the danger of burning fossil fuels, into three numbers:

2°C: The maximum amount of global warming that can occur without causing runaway climate change. Almost every country in the world has agreed to this and has committed to not exceeding this increase in global temperature.

565 gigatons: The amount of carbon scientists say we can burn and keep warming below 2°C. At current, we’ll burn this amount of carbon in 16 years.

2795 gigatons: The amount of carbon fossil fuel companies have in their reserves. That’s five times more than the amount of carbon we can burn before surpassing the 2°C limit.

Many zoos and aquariums have implemented energy conservation programs to green their infrastructure, developed marketing strategies and climate-related education programs, and encouraged their visitors to adopt good habits to help the planet. These institutions recognize that it is essential for them to align their operational practices with their mission statements.

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1 Species Susceptibility to Climate Change Impacts. IUCN. 2008.
3 Center for Biological Diversity. http://www.biologicaldiversity.org/programs/climate_law_institute/350_or_bust/

visitors believe climate change is happening. A national survey suggests that 82 percent of zoo and aquarium visitors believe climate change is happening, according to an article in Scientific American. A new national survey suggests that 82 percent of zoo visitors believe climate change is happening compared with just 64 percent of the general public. Zoos and aquariums can and do play a role in educating the public about climate change, and the urgency of this threat calls for accelerated, committed action by all institutions and individuals.

2 “Can Zoos Play a Role in Climate Change Education?” Scientific American. 1 Dec 2011.

Zoos impact attitudes of their visitors by artfully sharing a passion for species and conservation through well-designed exhibits and education programs. Species in zoos and aquariums impart a spirit of wonder to future generations who will someday become conservationists, educators, scientists, politicians, authors, and advocates for these same species. Because of this, zoos play a unique role in protecting the animals in their collections, as well as those species’ wild counterparts and habitats, to ensure that the species can thrive and future generations can appreciate biodiversity the way we do today. Knowing the devastating impacts of global climate change on species places a special burden on zoos, aquariums, and other conservation organizations to act. Many already are by greening their business practices, reducing carbon emissions, contributing to research on climate change, and educating visitors.

These continue to be important ways to contribute to finding a solution. In addition to these efforts, we also need to be aware of other opportunities that provide us a way to contribute on a grander scale, especially if they unite us with others across the globe to address the enormous problem of global carbon emissions and government inaction.

Now is our chance to be leaders in transforming a flawed system into one that perpetuates hope instead of harm. We can create change, but only if we work together.

**Let's get started**

**JOIN THE ZOOS & AQUARIUMS MOVEMENT FOR 350.**

**PURSUE DIVERSTMENT**

Zoos that invest money can choose to divest from fossil fuel companies and reinvest in solutions that align with their mission of conservation. Divestment is the opposite of an investment—it simply means getting out of stocks, bonds or investment funds that are unethical or immoral. Fossil fuel investments are a risk for investors and the planet—that's why we're calling on institutions to divest from these companies.

We want zoos and aquariums to immediately freeze any new investment in fossil fuel companies, and create a plan for divesting from direct ownership and any commingled funds that include fossil fuel public equities and corporate bonds within 5 years. The complexity of these investments requires time and dedication to unravel, but the sooner we commit to move forward, the better.

**Why Divestment?**

The three numbers defined above (2°C, 565 gigatons, and 2795 gigatons) highlight the key role of the fossil fuel industry in the climate crisis. Fossil fuel companies work hard to ensure that they can continue to extract more fuel and continue to see large profits and tax breaks. They lobby governments and fund politicians who cast doubt on the truth of climate science and the need to drastically reduce global carbon emissions. These companies need to leave their reserves in the ground, but extracting those reserves are a key part of their business plan, so we know they won't do so voluntarily.

Divestment empowers zoos and aquariums to challenge the fossil fuel industry to adjust their business plan to reflect respect for the planet and its inhabitants. It assures zoo visitors and donors that
the money they donate or spend at the zoo will be invested in places that support a collective effort to develop solutions to this universal challenge. It provides opportunities for zoos to invest in industries that reflect their conservation mission.

Divestment also addresses a systemic barrier to climate solutions—that is, government inaction on addressing climate change. The consensus indicated by divestment tells governments and the financial sector that zoos and aquariums, along with universities, cities, businesses, and religious institutions are serious about climate change and the role of the fossil fuel business plan in perpetuating it.

History shows that the attention generated by divestment can change the course of events and instigate government action. There have been a handful of successful divestment campaigns in recent history, including Darfur and tobacco, but the largest and most impactful one focused on the issue of South African Apartheid. Divestment not only applied direct economic pressure, but also helped reveal the immorality of apartheid, galvanizing a movement of concerned citizens around the world.

By the mid-1980s, 155 campuses had divested from companies doing business in South Africa. Twenty-six state governments, 22 counties, and 90 cities took their money from multinationals that did business in the country. The South African divestment campaign helped end Apartheid and usher in an era of democracy and equality. Archbishop Desmond Tutu stated that the movement to end apartheid “would not have succeeded without the help of ... the divestment movement of the 1980s.”

FAQs

What exactly does divestment mean?
Divestment is the opposite of investment. It means removing assets from specific financial products or industries. In this case, we are asking zoos and aquariums to immediately freeze any new investment in fossil fuel companies, and develop a plan to divest from direct ownership and any commingled funds that include fossil fuel public equities and corporate bonds within five years. The complexity of these investments requires time and dedication to unravel, but the sooner we commit to move forward, the better.

Why fossil fuel companies?
By focusing on fossil fuel companies instead of other types of socially irresponsible investments, we join an international movement that is gaining momentum, generating conversation, and drawing needed attention to the true issue — the need for national and international policy change.

What message do we want to send to fossil fuel companies?
200 publicly-traded and government owned companies hold the vast majority of the world’s proven coal, oil and gas reserves. Those are the companies we’re asking institutions to divest from. The messages sent to these 200 companies are simple, because they reflect the stark truth of climate science:

1. They need immediately to stop exploring for new hydrocarbons.
2. They need to stop lobbying to preserve their special breaks.

Our Partners
The divestment movement began in universities. Students from over 300 colleges in the US, Canada, and Europe began campaigns to divest their schools’ endowments completely from fossil fuels. Six universities have committed to divestment, and many more are engaging in discussion about the possibility of divesting.

Now this movement has spread beyond campuses. Seventeen US cities including San Francisco, CA, Seattle, WA, and Portland, OR have committed to divesting. Businesses, foundations, and religious institutions in Europe, Australia, and the US have caught on to the importance of their investment portfolios reflecting their position on the environment.

Divestment is also catching the financial sector’s attention. Numerous reports and articles from financial investors express the increasing volatility of fossil fuel profits.

Both HSBC (one of the largest banking and financial services organizations in the world) and Standard & Poor’s (worldwide leader of financial market intelligence) have released reports about the growing risk associated with fossil fuel investments. Universities represent young people and students, cities represent the general public. This is an opportunity for zoos and aquariums to become the leading voice for conservation and wildlife in this climate change movement.

1 “Oil and Carbon Revisited.” HSBC. 25 January 2013
2 “What a Carbon Constrained Future Could Mean for Oil Companies’ Credit-Worthiness.” Standard and Poor’s. 1 March 2013.
Most importantly, they need to pledge to keep 80% of their current reserves underground forever.

**How will all of this actually result in any change?**

Divestment sparks discussion and gets media attention, moving the case for action forward. With the voices of many diverse institutions joining with those of individuals, this movement is making noise. Leveraging zoos and aquariums, universities, and other institutions creates a consensus within the investment world and the public at large. Moving investments away from carbon will deliver a clear message to government bodies that the public wants policies leading to reduction of levels of atmospheric CO₂ to 350ppm. Our intention is not to bankrupt fossil fuel companies, but history shows that the attention generated by divestment can instigate government action.

**Shouldn’t zoos and aquariums stay out of politics?**

Divestment can be an uncomfortable step for a zoo or aquarium board to take, but these are not ordinary times. Scientists have made it clear that we’re running out of time to address the climate crisis. As institutions dedicated to conserving species, zoos have a special responsibility to help protect the future of our planet. It makes no moral or practical sense to pay for the conservation of a species or the education of a generation of children by investing in companies whose business plan guarantees that they will not have a recognizable planet to live on.

Companies like ExxonMobil, Shell and BP have billions of dollars. How can the divestment of a few institutions make an impact?

The largest zoo, aquarium, and zoo and aquarium association endowments together hold nearly $1 billion. While that’s not a huge number, when combined with endowments from colleges and universities (which hold over $400 billion in their endowments), state pension funds, and investments of religious institutions, we’re well on our way to making a significant statement. The power of our actions comes from the collective nature of the movement.

Divestment shakes up the financial markets and shows the big finance firms that fossil fuels are risky investments. It’s already working: HSBC, Standard and Poor’s, and Sweden’s Storebrand Group have released reports about the growing risks of fossil fuel investment.

**Is it even possible for my institution to divest from fossil fuels?**

Even though the first answer you receive from your board and fund manager might be “no,” the answer is yes. Boards of trustees can tell their money managers to develop responsible investment strategies that exclude direct investments in fossil fuel corporations and funds that include fossil fuels in their portfolio (it’s called “screening”). So don’t take no for an answer. As people realize the threat of the climate crisis and the role of the fossil fuel business model in perpetrating this crisis, more options for fossil-free funds are becoming available.

**Can we still make a reasonable return without investing in fossil fuel companies?**

While it’s true that fossil fuel companies are extremely profitable (the top five oil companies, last year, made $137 billion in profit—that’s $375 million per day), they’re also very risky investments. Coal, oil and gas companies’ business models rest on emitting five times more carbon into the atmosphere than civilization can handle, which makes their share price five times higher than it should be in reality. In addition, disasters like Exxon Valdez, the BP oil spill, along with massive fluctuations in supply and demand of coal, oil and gas, make energy markets particularly volatile, and therefore risky.

1 **Sustainable Extraction? An Analysis of SEC Disclosure by Major Oil and Gas Companies on Climate Risk and Deepwater Drilling Risk.** CERES.

As the reality of climate change sets in, governments are facing more pressure to create policies to keep those reserves in the ground to fulfill the internationally agreed upon 2°C temperature rise.

New reports are indicating that investing in clean energy, efficiency and other sustainable technologies can be even more profitable than fossil fuels.¹ It is a growing market, with over $260 billion invested globally last year, and a safe place for your institution to invest.

**Six Steps to Divestment**

1) **Find out where your money is.**

Talk to your foundation, board, or financial planner to find out where your money is invested. Even zoos and aquariums with ethical investment policies are likely invested in one or more of the top 200 fossil fuel companies (http://gofossilfree.org/companies/).

2) **Commit to pursuing divestment.**

It’s both that simple, and that complicated. A commitment to exploring divestment does not mean that you know all the answers or can predict the outcome. It means that your institution will begin taking necessary steps to move in this direction. Remember, it doesn’t have to happen overnight—the goal is full divestiture in five years.

Ready to get started? Join the Movement at http://www.cbsg.org/content/join-movement to indicate your intention to explore divestment for your institution.

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3) Research responsible investment alternatives
Investment products that exclude fossil fuel industries are available to investors and, just like for any investment product, there is help available for identifying fossil fuel free funds. For a good place to start, visit http://gofossilfree.org/mymoney/, which has links to fossil free mutual funds, green asset management firms, and financial planners.

No obvious fossil free reinvestment options for a specific financial product? Find out who else in your community might be divesting, whether it be a government-funded university, city government, or another zoo or aquarium and consider joining forces.

4) Meet with your financial planner
Once armed with a sufficient amount of information, meet with your financial planner if you have one. Most likely, they will be familiar with some type of socially responsible investing (SRI) and can help you identify fossil fuel free products. Remember that this is a new movement and your advisor may take some convincing. Their job is to help you and your institution meet your goals, and this includes ensuring your portfolio is aligned with your mission.

5) Divest stocks.
Research divestment options for your other investments. Divesting stock holdings might be easier than divesting your pension fund or endowment, so if your institution invests in stocks, pursue that first. While mutual funds and endowments will take time to untangle from fossil fuels, if your zoo holds any stock in the Top 200 fossil fuel companies, divesting from these might be considered “low-hanging fruit” in comparison to finding a new investor or researching fossil free mutual funds.

6) Spread the word.
We know that you will not make a divestment decision lightly. Thus when you’ve decided to consider divestment, let Z&A for 350 know so we can celebrate your commitment and courage to lead. Announcing your intention to divest doesn’t have to wait until you have all the logistics figured out. Cities like Seattle and San Francisco announced their consideration of divestment before their boards even met. This is something to be proud of, and though divestment will be complicated, the message it sends is not. Let your divestment serve as an invitation for other zoos and aquariums and your community to also actively participate in this movement.

Resources

KEY REPORTS

• Unburnable Carbon - The Carbon Tracker Initiative:
  http://www.carbontracker.org/carbonbubble
• Beyond Fossil Fuels: The Investment Case for Fossil Fuel
  Divestment - Impax Asset Management:
  http://www.cbsg.org/sites/cbsg.org/files/2013_
energy conservation measures, and updated buildings. Guides like BIAZA’s Sustainability Guide and AZA’s Green Guide (see “Resources”) can be helpful for zoos looking to begin and continue these changes.

Carbon offsetting can be an important final step of an overall climate action plan, only to be used after marked efforts to reduce emissions have been implemented. Some zoos have already taken this step by compensating for remaining emissions through the purchase of carbon offsets.

There have been many debates about the merit of carbon offsets. Some companies who offset without first reducing their emissions are accused of “paying to pollute.” However, carbon offsetting can be a useful tool as part of a clear, overall climate action plan. It can promote involvement in projects that not only keep carbon out of the atmosphere, but have additional environmental, social, and economic benefits as well.

To aid zoos and aquariums worldwide in compensating for their institutions unavoidable carbon emissions, Z&A for 350 will partner with a carbon offset provider that offers projects that are credible, that would not have taken place without the investment in offsets, and that are economically viable, socially equitable, and environmentally friendly. The projects selected will be compatible with WAZA’s mission and focus on threatened species and related habitats, with preference given to tropical rainforest projects. Projects will be validated under an internationally accepted performance standard. More details will be available soon.

Participating institutions will report back to WAZA on their commitment to reduce and offset their carbon emissions. The statement that one zoo makes by taking action is powerful—the statement that a group of zoos makes is even more so. The strength of this initiative is in the collective effort of, and the example set by, the international zoo and aquarium community. Those institutions that are offsetting independently are encouraged to report their progress as well. This way the true impact of this ambitious commitment by our community will be fully recognized.

FAQ

How do carbon offsets work?
The offsetting process begins with calculating the amount of carbon an institution emits in a certain time period. Efforts to reduce this carbon footprint are made by reducing waste or improving energy efficiency. The amount of carbon emissions remaining can be balanced by purchasing carbon offsets. The purchase of carbon offsets provides funding for projects that measurably reduce global greenhouse gas emissions.

What is a carbon offset provider?
Carbon offset providers are companies that create portfolios of carbon offset projects and provide resources such as carbon emission calculators. Carbon offset providers can measure carbon footprints and help with an overall climate action plan leading to carbon neutrality.

How will the Zoos and Aquariums for 350 carbon offsetting process work?
Z&A for 350 is working to select a carbon offset provider for the zoo and aquarium community. This provider will work with zoos on whatever services they need: measuring carbon footprint, help reducing carbon footprint, and purchasing carbon offsets from that provider. The provider will offer a range of projects for each zoo to pick from to offset their remaining carbon emissions. Each zoo will do their own work within their institution, but will report back to WAZA about the amount of carbon they reduce and offset. WAZA will report on this information and celebrate progress on this initiative. More information on the reporting process will be available soon.

What are some examples of carbon offset projects?
Carbon offset projects include reforestation, renewable energy, methane reduction, energy efficiency, and bio-gas projects. Good projects include additional benefits besides offsetting carbon, including social, welfare, and health benefits for local communities and wildlife. These projects are certified according to agreed-upon standards created by third party registries. The Z&A for 350 offset provider will clearly state which standards their projects meet. Working with a provider enables each zoo or aquarium to choose projects that fit with its mission.

What are the standards in place to ensure successful projects?
The major voluntary carbon offset standards were developed to establish offset credits from emissions reductions as real, additional (meaning that it would not have occurred without money from carbon credits), and permanent. Credible standards clearly define the methodology for establishing baseline emissions, terms for project additionality, project type, third party verification and validation, and methodology for selling and retiring offsets. The provider selected will offer projects compatible with WAZA’s mission and focus on threatened species and related habitats, with preference given to tropical rainforest projects.

How can we be sure our money is actually doing what we want it to do?
Z&A for 350 will choose a provider that is transparent in their project design, project standards, and review process. International standards reinforce the provider’s promise that the money used to purchase
offsets results in true reduction of emissions. Participating zoos and aquariums will be able to see detailed reports about their chosen project.

**How much does carbon offsetting cost?**

Our provider will have a set price per ton of carbon. Carbon emissions are calculated to determine the number of tons that offsets will need to be purchased for. The more tons of carbon your zoo emits, the more offset credits you must buy to achieve carbon neutrality.

**What if my zoo is already carbon neutral or already offsets our carbon emissions?**

If your zoo has already achieved carbon neutrality, or is already working toward it, you can still participate in this initiative! Simply report to WAZA on your progress, how many tons you offset, and the type of projects your institution invests in. That way, we can include your accomplishments in reports of global zoo efforts.

**Does the concept of carbon offsetting work?**

Offsetting is not an excuse to continue emitting carbon as usual, and must be preceded and supplemented by continued emission reduction efforts. It can serve as an incentive to further reduce emissions. The implementation of rigorous carbon offset standards has become a trustworthy indicator of offset project quality and actual greenhouse gas reductions, ensuring that the money paid for offsets is successfully reducing carbon emissions.

**Five Steps to Offset Carbon**

1) **Commit to the Climate Change Movement Carbon Offset Initiative**

Zoos will beat many different levels of carbon reduction in their institutions. No matter where you are, you can commit that your institution will:

• Measure current carbon emissions using online calculators or using the offset provider to help you with a carbon audit.
• Create a climate action plan for reducing emissions by updating infrastructure, implementing new waste management systems, and developing energy conservation measures for your zoo.
• Get everyone involved, from the director on down, through education and opportunities to participate. Sustainability must include everyone.
• Use the AZA Green Guide and BIAZA Sustainability Guide for getting started, and research zoo sustainability initiatives that you would like to implement at your own zoo.

Ready to get started? Join the Movement at [http://www.cbsg.org/content/join-movement](http://www.cbsg.org/content/join-movement) to indicate your intention to pursue offsetting for your institution.

2) **Calculate Remaining Emissions**

Some zoos might already be ready to offset after marked efforts to reduce their carbon footprint, others might just be getting started. A number of online calculators can help you determine the emissions that remain after reduction and sustainability efforts.

3) **Work with the Z&A for 350 Carbon Offset Provider**

Z&A for 350 is working to select an offset provider that will work with zoos and aquariums at any part of the process, whether on reducing carbon emissions, measuring what remains, or offsetting remaining emissions. More information about this provider will soon be available.

4) **Become Carbon Neutral**

After hard work and time, your zoo may become carbon neutral. This step is likely years down the road, but WAZA and Z&A for 350 will be ready to report on your success when the time comes.

5) **Communicate**

The statement that one zoo makes by going carbon neutral is powerful – the statement that a group of zoos makes is even more so. So when you’ve decided to pursue carbon offsetting, be sure to report back to Z&A for 350 on your efforts (method for reporting will be available soon). Let’s show the world that the international zoo and aquarium community is a leader in environmental sustainability.

**Resources for Offsetting**

Zoos and Aquariums for 350 Website: [http://www.cbsg.org/zoos-aquariums-350](http://www.cbsg.org/zoos-aquariums-350)


Carbon Catalog: [www.carboncatalog.org](http://www.carboncatalog.org)


**SHOW THE WILD FACE OF CLIMATE CHANGE**

Clear communication about the effects of climate change on all species plays a key role in our pursuit of collective action on climate change. Many zoos already communicate with their visitors about this threat, and here is another way to invite zookeepers and visitors to add their own voices to the mix.

350.org has a feature called “Showing the Human Face of Climate Change.” Any person from anywhere
in the world can submit a photo that depicts how climate change and extreme weather has affected them and their local communities. The subjects of the photos hold signs that have the numbers “350” on them as well as any other message they’d like displayed.

The Zoos and Aquariums for 350 movement has a corresponding feature called “Showing the Wild Face of Climate Change.” You can contribute to this part of the movement in a few unique ways:

- Submit a photo of one of your species that is specifically climate threatened. The photo should contain a sign with the Zoos and Aquariums for 350 logo on it, along with explanatory words or phrases.

- You could write the name of your zoo or name of the species, like “Koalas for 350 ppm.” Have a keeper/director/team hold up a sign in front of/with the species, or have the animal hold it themselves if that works.

- Incorporate a photo project based on this idea into educational activities. Perhaps in the classroom, five species in the zoo that are affected by climate change are discussed. The children are given “Zoos and Aquariums for 350” signs and the opportunity to identify those animals and take photos of themselves in front of the exhibits holding the signs.

- Develop your own creative project to spread the word and celebrate your institution’s commitment to Zoos and Aquariums for 350 Movement! Be sure to share your successes with CBSG so your efforts can be publicized and duplicated.

Send a short description of why this species shows the “Wild Face of Climate Change,” such as how it has altered its habitats, caused their populations to decline, etc. Keep it short and simple—it should be no more than one or two sentences . . .

Example:
"Polar bears like this one suffer from climate change-caused effects on their Arctic habitat. Because of sea ice melting, changes in hibernation patterns due to warmer weather, and complicated predator-prey alterations, polar bears are critically endangered and suffering the effects of human-caused climate change."

The Zoos and Aquariums for 350 logo is available for free download at: [http://www.cbsg.org/wild-face-climate-change](http://www.cbsg.org/wild-face-climate-change). Submit your photos here: [http://www.cbsg.org/content/wild-face-climate-change](http://www.cbsg.org/content/wild-face-climate-change)

**OTHER WAYS TO PARTICIPATE**

If you’re not affiliated with a zoo or aquarium, you still have a major role to play in this movement. Whether you’re a professor, researcher, government employee, or a biologist engaged in fieldwork, your voice united with the movement helps amplify the message of 350.

**As part of a university** - The Z&A for 350 movement is joining a broader movement that is focused on the role of colleges in fighting climate change through divestment. The divestment movement is gaining ground in the US, with over 300 student and faculty-led campaigns for divestment, and is beginning in other countries like Australia, Canada, and the Netherlands. If you’re a student or professor, check for a campaign at your university: [http://gofossilfree.org/campaigns/](http://gofossilfree.org/campaigns/)

If one has not yet been started, consider researching what it would take to start a campaign. There are a multitude of helpful resources at gofossilfree.org.

**As a government employee** - Governments at the city and state levels are considering divestment. As someone who works in government, you can be a powerful voice for moving divestment forward within your organization for the sake of conservation. For more about government campaigns, visit [http://gofossilfree.org/](http://gofossilfree.org/)

**In the field** - “Showing the Wild Face of Climate Change” can be equally as powerful coming from the field, where climate change effects on habitat and species are apparent. Using the same principles as the zoo and aquarium “Showing the Wild Face of Climate Change,” bring a sign or piece of paper with you with the 350 logo (download here: [http://350.org/en/logos-graphics-templates](http://350.org/en/logos-graphics-templates)) and photograph a species of interest or a diminished habitat with the sign creatively incorporated.

**As an individual** – 350.org and gofossilfree.org have numerous campaigns and projects for individuals to become involved. Check out their websites to discover what is going on and find what you’re passionate about within the movement. The European Association of Zoos and Aquaria (EAZA) and the U.S.-based Association of Zoos and Aquariums (AZA) have implemented their Pole to Pole campaign. The campaign focuses on threatened species in the Arctic and Antarctic, and includes practical actions that individuals can take to help conserve energy and live more sustainably. Find out more at [http://www.poletopolecampaign.org](http://www.poletopolecampaign.org).

We want to celebrate and support your work so be sure to let Z&A for 350 know how you’ve decided to become involved.

**Editor: Emily Wick, CBSG Communications Officer.**

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