



Call Sheet **Green** Tips and Facts

Having a successful sustainable production includes getting everyone on board! Add one of these tips to your call sheet to keep the crew mindful of sustainability goals and the positive outcomes.

The facts below are a starting point, please feel free to research your own sustainable facts to share or provide information on your production's successes in reducing your carbon footprint. These could be small stories about how many water bottles you've kept from the landfill, how much food was donated in the previous week, etc. These facts encompass both global and US Centric metrics. Feel free to check out the listed sources to learn more.

The tips below are separated into "Did you know?" and "Green Action" by sector.

Did you know?: are tips that provide information and facts on the sectors below.

Green Action: outlines actions cast and crew can take during production to help meet sustainable production goals.

Waste Reduction & Recycling

- **Did you know?** Should the global population reach 9.6 billion by 2050, the equivalent of almost three planets could be required to provide the natural resources needed to sustain current lifestyles.

Source: United Nations. Sustainable Development Goals; 17 Goals to Transform Our World. 2015. www.un.org/sustainabledevelopment/sustainable-consumption-production/

- **Did you know?** More than 480 billion plastic drinking bottles were sold in 2016 across the world, up from about 300 billion a decade ago. If placed end to end, they would extend more than halfway to the sun. By 2021 this will increase to 583.3 billion, according to the most up-to-date estimates from Euromonitor International's global packaging trends report. **Green Action:** Bring your own water bottle to refill at water stations and remind your colleagues to do the same.

Source: Euromonitor International Global Packaging Trends Report 2017.

- **Did you know?** Fewer than half of the bottles bought in 2016 were collected for recycling and just 7% of those collected were turned into new bottles. Instead most plastic bottles produced end up in landfill or in the ocean. **Green Action:** Bring your own water bottle but if you do use a plastic bottle, be sure to recycle it.





Source: World Economic Forum, Ellen MacArthur Foundation and McKinsey & Company, *The New Plastics Economy — Rethinking the future of plastics* (2016, <http://www.ellenmacarthurfoundation.org/publications>).

- **Did you know?** In May 2017, scientists found nearly 18 tonnes of plastic on one of the world's most remote islands, an uninhabited coral atoll in the South Pacific. **Green Action:** Pay attention to recycling signs and try to recycle used packaging and materials but first and foremost, reduce where possible.

Source: Jennifer L. Lavers and Alexander L. Bond. *Exceptional and rapid accumulation of anthropogenic debris on one of the world's most remote and pristine islands* PNAS 2017 114 (23) 6052-6055; published ahead of print May 15, 2017, doi:10.1073/pnas.1619818114

- **Did you know?** A study in Science Magazine in 2015 estimated 8 million tonnes of plastic go in to the sea each year.

Source: *Plastic Waste Inputs from Land Into the Ocean*. Jenna R. Jambeck, Roland Geyer, Chris Wilcox, Theodore R. Siegler, Miriam Perryman, Anthony Andrady, Ramani Narayan, Kara Lavendar Law. *Science* 13, Feb 2015 – 768-771.

Food

- **Did you know?** Each year, an estimated one third of all food produced world wide – equivalent to 1.3 billion tonnes worth around \$1 trillion – ends up rotting in the bins of consumers and retailers, or spoiling due to poor transportation and harvesting practices.

Source: United Nations. *Sustainable Development Goals; 17 Goals to Transform Our World*. 2015. www.un.org/sustainabledevelopment/sustainable-consumption-production/

- **Did you know?** While substantial environmental impacts from food occur in the production phase (agriculture, food processing), households influence these impacts through their dietary choices and habits. This consequently affects the environment through food-related energy consumption and waste generation. **Green Action:** Consider choosing vegetarian or vegan option for your meal to try it out.

Source: United Nations. *Sustainable Development Goals; 17 Goals to Transform Our World*. 2015. www.un.org/sustainabledevelopment/sustainable-consumption-production/

- **Did you know?** The food sector accounts for around 30 per cent of the world's total energy consumption and accounts for around 22 per cent of total Greenhouse Gas emissions.

Source: United Nations. *Sustainable Development Goals; 17 Goals to Transform Our World*. 2015. www.un.org/sustainabledevelopment/sustainable-consumption-production/





- **Did you know?** In 2014 alone, more than 38 million tons of food waste in the USA was generated, with only 5.1 percent diverted from landfills and incinerators for composting. EPA estimates that more food reaches landfills and incinerators than any other single material in our everyday trash, constituting 21.6 percent of discarded municipal solid waste.

Source: Environmental Protection Agency. www.epa.gov/sustainable-management-food/sustainable-management-food-basics#what

- **Did you know?** Scientists at Ghent University in Belgium recently calculated people who eat seafood ingest up to 11,000 tiny pieces of plastic every year.

Source: Van Cauwenberghe L, Janssen C, 2014. Microplastics in bivalves cultured for human consumption. *Environmental Pollution*, 193, 65-70. DOI: 10.1016/j.envpol.2014.06.010

- **Did you know?** People who consume high amounts of meat and dairy, shifting to diets with a greater share of plant-based foods could significantly reduce agriculture's pressure on the environment. **Green Action:** Try vegetarian or vegan options for your meals or even just once a week.

Source: Ranganathan, J. et al. 2016. "Shifting Diets for a Sustainable Food Future." Working Paper, Installment 11 of Creating a Sustainable Food Future. Washington, DC: World Resources Institute. Accessible at <http://www.worldresourcesreport.org>

- **Did you know?** Producing the food for the average American diet in 2009 required nearly one hectare of agricultural land, and emitted 1.4 tons of carbon dioxide equivalent (CO₂ e), before accounting for emissions from land-use change.

Source: Ranganathan, J. et al. 2016. "Shifting Diets for a Sustainable Food Future." Working Paper, Installment 11 of Creating a Sustainable Food Future. Washington, DC: World Resources Institute. Accessible at <http://www.worldresourcesreport.org>

- **Did you know?** Animal-based foods accounted for nearly 85 percent of the production-related greenhouse gas emissions and nearly 90 percent of agricultural land use. **Green Action** Consider choosing the vegetarian or vegan option for your meal to try it out. Challenge yourself to try vegetarian or vegan meals for the whole week.

Source: Ranganathan, J. et al. 2016. "Shifting Diets for a Sustainable Food Future." Working Paper, Installment 11 of Creating a Sustainable Food Future. Washington, DC: World Resources Institute. Accessible at <http://www.worldresourcesreport.org>

- **Did you know?** When accounting for all feeds, including both crops and forages, by one estimate only 1 percent of gross cattle feed calories and 4 percent of ingested protein are converted to human-edible calories and protein, respectively. In comparison, by this estimate, poultry convert 11 percent of feed calories and 20 percent of feed protein into human edible calories and protein. **Green Action:** Consider choosing poultry over beef or better yet try vegetarian or vegan options





for your meals or even just once a week. Challenge yourself to try vegetarian or vegan meals for the whole week.

Source: GlobAgri model (land use and greenhouse gas emissions), authors' calculations from Mekonnen and Hoekstra (2011, 2012) (freshwater consumption), and Waite et al. (2014) (farmed fish freshwater consumption).

- **Did you know?** Reducing ruminant meat and dairy consumption—in addition to improving agricultural productivity and efficiency, and reducing greenhouse gas emissions from fossil fuels and deforestation—is a necessary strategy to meet European Union and global emissions targets to limit global warming to 2 degrees Celsius. **Green Action:** Try vegetarian or vegan options for your meals if even it's just once a week. Challenge yourself to try vegetarian or vegan meals for the whole week.

Source: Bryngelsson, D., S. Wirsén, F. Hedenus, and U. Sonesson. 2016. "How can the EU climate targets be met? A combined analysis of technological and demand-side changes in food and agriculture." Food Policy 59: 152–164

- **Did you know?** Predicted that halving consumption of meat, dairy, and eggs in the EU would reduce nitrogen emissions by 40 percent and greenhouse gas emissions by 25–40 percent. Also predicted a 23 percent reduction in domestic cropland needed to feed each EU citizen. **Green Action:** Try vegetarian or vegan options for your meals or even just once a week. Challenge yourself to try vegetarian or vegan meals for the whole week.

Source: Westhoek, H., J. P. Lesschen, A. Leip, T. Rood, S. Wagner, A. De Marco, D. Murphy-Bokern, C. Pallière, C. M. Howard, O. Oenema, and M. A. Sutton. 2015. Nitrogen on the Table: The influence of food choices on nitrogen emissions and the European environment. (European Nitrogen Assessment Special Report on Nitrogen and Food.) Edinburgh, UK: Centre for Ecology & Hydrology.

Water

- **Did you know?** Less than 3 per cent of the world's water is fresh (drinkable), of which 2.5 per cent is frozen in the Antarctica, Arctic and glaciers. Humanity must therefore rely on 0.5 per cent for all of man's ecosystems and fresh water needs.

Source: United Nations. Sustainable Development Goals; 17 Goals to Transform Our World. 2015. www.un.org/sustainabledevelopment/sustainable-consumption-production/

- **Did you know?** Man is polluting water faster than nature can recycle and purify water in rivers and lakes.

Source: United Nations. Sustainable Development Goals; 17 Goals to Transform Our World. 2015. www.un.org/sustainabledevelopment/sustainable-consumption-production/





- **Did you know?** Excessive use of water contributes to the global water stress. **Green Action:** Always use water wisely including when watering plants, supplying drinking water, and in all other ways the production utilizes water.

Source: United Nations. Sustainable Development Goals; 17 Goals to Transform Our World. 2015. www.un.org/sustainabledevelopment/sustainable-consumption-production/

- **Did you know?** Between 5 million and 13 million tonnes of plastic is desposited into the world's oceans each year only to be ingested by sea birds, fish and other organisms, and by 2050 the ocean will contain more plastic by weight than fish
Green Action: Always recycle recyclable plastics and have Casting tell extras to BYOB (Bring their own water bottles) to help reduce the number of plastic disposable water bottles used on set.

Source: World Economic Forum, Ellen MacArthur Foundation and McKinsey & Company, The New Plastics Economy — Rethinking the future of plastics (2016, <http://www.ellenmacarthurfoundation.org/publications>).

- **Did you know?** Scientists have discovered “extraordinary” levels of toxic pollution in the most remote and inaccessible place on the planet – the 10km deep Mariana trench in the Pacific Ocean.

*Source: Jamieson, A. J. et al. Bioaccumulation of persistent organic pollutants in the deepest ocean fauna. Nat. Ecol. Evol. **1**, 0051 (2017).*

- **Did you know?** 40 out of 50 state water managers expect water shortages under average conditions in some portion of their states over the next decade. **Green Action:** Tell housekeeping at your hotel to change towels and sheets weekly, not daily.

Source: Supply Concerns Continue, and Uncertainties Complicate Planning. GAO-14-430: Published: May 20, 2014. Publicly Released: May 22, 2014.

