

WHAT'S NEW ON EVERYTHING EARTH

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Everything Earth

Local Wins amid Global Failure

Fall Color Spectacular

Give a Turkey a Break

3 Minutes to Change the World

BRIGHT STARS ON A DARK HORIZON

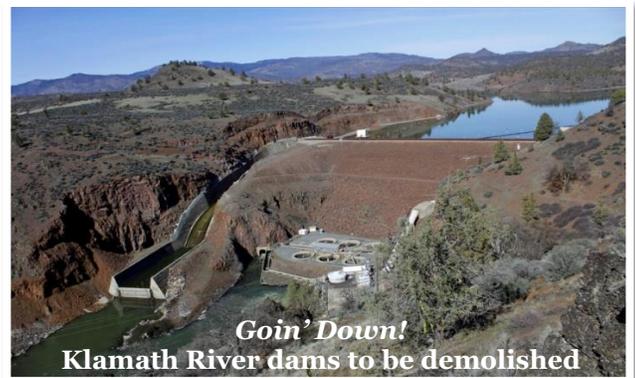
U.N. Executive Secretary Antonio Guterres warned at Conference of the Parties ([COP27](#)) in Egypt this week that it would be “unacceptable, outrageous and self-defeating” to put climate action on the back burner. And yet, backsliding on COP26 pledges has been the overwhelming reaction to 2022’s energy and economic turmoil.

Many countries have leaned back into coal. Mauritania is promoting its natural gas reserves at COP27 itself. Congo this year auctioned off large tracts of rain forest for oil drilling. And for Egypt, COP27’s host country, [expanding natural gas production](#) has become a top priority.

During the most recent USA election cycle, climate took a distant fourth place in voter priorities. Of [132 ballot measures](#), only two substantially addressed climate change, one of which failed—in California.

What do to when COP27 is headed for epic failure; even toothless climate pledges are [“woefully inadequate”](#); economists estimate that [\\$125 trillion](#) in investments is necessary to achieve net zero emissions; the world’s largest greenhouse gas emitter is not attending COP27; and California can’t pass an environmental resolution? Focus on issues in your own backyard while the world rights itself. There are bright local stars on the dark global horizon.

U.S Pacific Northwest. Four massive Klamath River dams are one step closer to demolition after getting a nod from federal regulators. It will be the largest ever dam removal and is expected to restore riverine ecosystems and salmon populations which have fallen by up to 96%. Fall chinook, the last to persist in any significant numbers, were so meager that the Yurok Tribe had to buy fish at a grocery store for their annual salmon festival.



We need your help on the final step for demolition approval—see [“3 Minutes to Change the World”](#) below.

Belize. The Nature Conservancy crafted a *blue bond*, a complex financial agreement, to free Belize of its oppressive loan shark-like debt. With the resulting \$200 million—10% of Belize’s GDP—freed up, the country was able to protect 30% of its waters and spend \$4.2 million per year preserving biodiversity.



UK. A baby bison has been born in the woodlands near Canterbury for the first time since hunters killed the last wild bison in 1927. The bison, who had been surviving only in zoos, were released as part of a rewilding project to combat climate and biodiversity crises.

[European bison](#), the largest land animal of Europe, have an enormous impact on the environment. As bison browse, they fell non-native deadwood and some of the native trees as well, creating clearings and diverse habitats in which other wildlife thrive.

WHERE FALL GETS ITS RAZZLE-DAZZLE



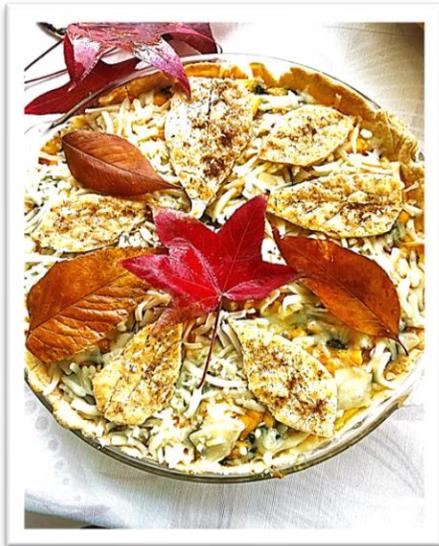
The first frost has little to do with fall color as is commonly thought. Leaves serve as food factories from the time they emerge in spring, creating the nutrients a tree needs to grow. It is the nutrient-heavy chlorophyll in a grown leaf that it gives the leaf its green color.

But, in addition to the chlorophyll, leaves also contain some yellow or orange carotenoids and red anthocyanin. For most of the year, the other colors are hidden by huge amounts of green chlorophyll. In fall, chlorophyll production slows down in reaction to shorter days and waning sunlight.



Eventually all the green tinged chlorophyll is destroyed. The carotenoids and—the color palette always present in in the background in leaves—are then unmasked and show their dazzling colors. See [November Razzle-Dazzle](#) for more jaw-dropping color.

WHO EVER SAID, “LET’S GO OUT FOR TURKEY!”?



Turkey has never been anyone’s idea for dinner out on the town. Without a lot of manipulation, turkey tends to be dry, tasteless and cumbersome. If the pilgrims had a better option, our guess is that they would have taken it.

Plus, today's manufactured turkeys have little to do with the wild birds of yore. Today, turkeys are "treated" with so many hormones to grow their breast to weirdly enormous sizes, they literally can't stand up in their miserable, dark, tiny warehouse pens. Plus, they are sprayed with pesticides and fed a gruel that includes their dead brethren.

Give a turkey a break and serve this [delicious Rustic Roasted-Vegetable Pie](#) instead.

For this recipe, I used the baby zucchini in my garden that didn't have time to grow to their full size before the first frost set in. Delectable!

“3 MINUTES TO CHANGE THE WORLD”

The last step in the 20-year battle by environmentalists and tribes to demolish the lower four Klamath River dams is a “public comment” period. Please file a comment in support of removing the dams with the Federal Energy Commission. [Here are the three easy steps](#) plus a sample comment letter. It’s all done online and truly will take you just 3 minutes to help put the final nail in this long overdue coffin.

STAY TUNED FOR “WHAT’S NEW ON EVERYTHING EARTH” DECEMBER 2022

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