



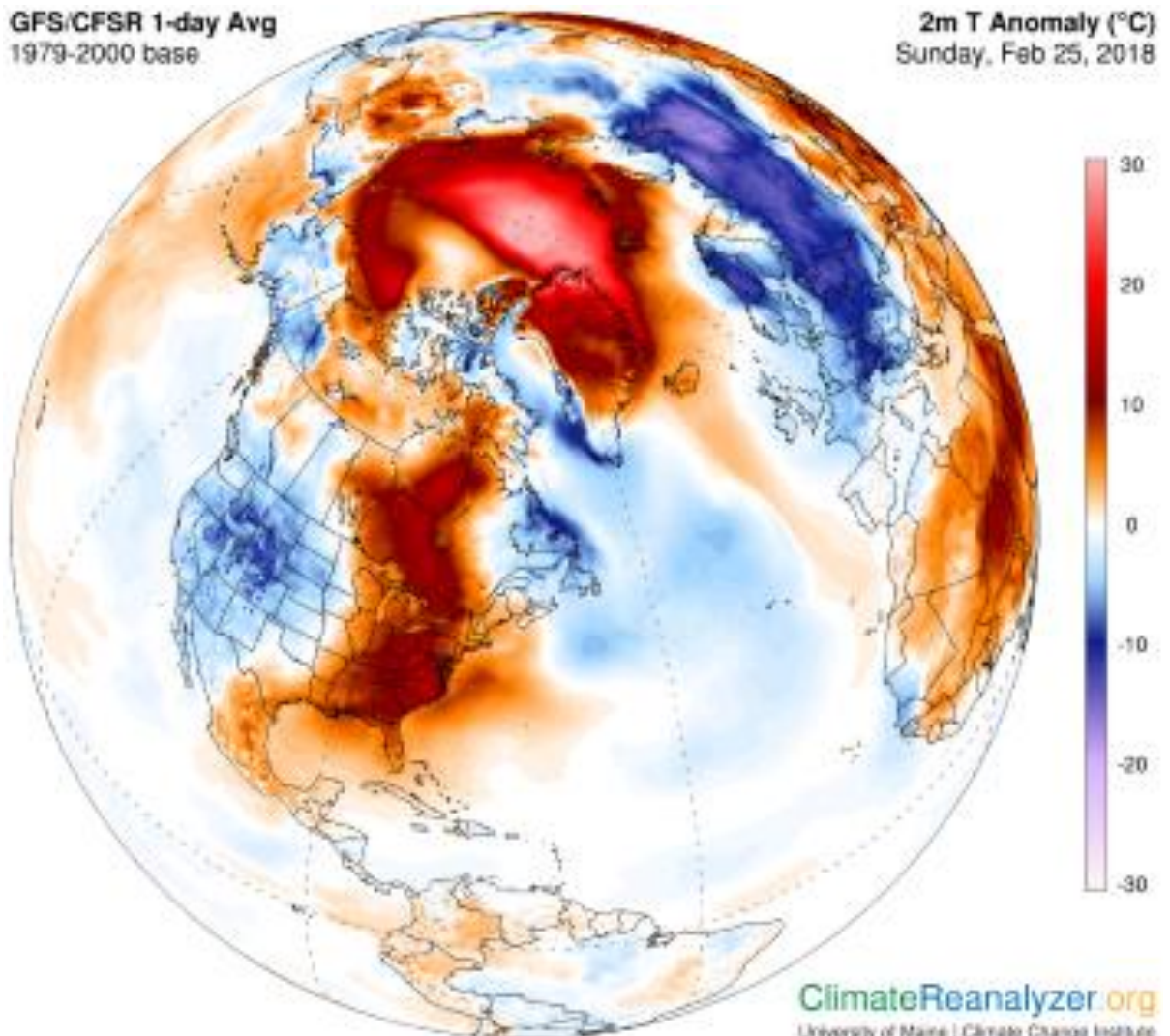
# Montgomery County, Maryland State of the Environment

March 2018

“We do not believe any group of men adequate enough or wise enough to operate without scrutiny or without criticism. We know that the only way to avoid error is to detect it, that the only way to detect it is to be free to inquire. We know that in secrecy error undetected will flourish and subvert”. – J Robert Oppenheimer.

GFS/CFSR 1-day Avg  
1979-2000 base

2m T Anomaly (°C)  
Sunday, Feb 25, 2018



ClimateReanalyzer.org  
University of Maine | Climate Change Institute

World  
+ 0.6 °C

Northern Hemisphere  
+ 1.1 °C

Arctic  
+ 5.8 °C

Tropics  
+ 0.4 °C

Southern Hemisphere  
0.0 °C

Antarctic  
- 0.5 °C

Sunday, February 25, 2018, temperatures at North Pole  
above freezing!

Should be 50 Degrees F COLDER!  
30 Degrees C COLDER!

# Scientific Analysis Reveals the Following:

- Immense storm pumps intense pulse of heat thru Greenland Sea
- Intrusion penetrates through heart of Arctic – 80 degrees N Lat.
- Dating back to 1958, no other intrusions close – **60 years**
- Between 1980 and 2010, occurred in four years
- Has now occurred in **four of last five winters!**
- Warming events related to loss of sea ice
- January 2018 sea ice extent lowest on record
- **SCIENTISTS SHOCKED OPEN WATER NORTH GREENLAND**
  - **USUALLY COVERED BY OLD, VERY THICK ICE**
- Weather Station Cape Morris Jesup , northern tip Greenland logs record-crushing **61 HOURS ABOVE FREEZING for 2018**
- 1980 to April 2011, 16 hours
- Hurricane-force winds pushing warmth into Arctic
- **Stratospheric warming events (>30,000 ft.) rearrange air masses**

# SCIENTIFIC ANALYSIS

- <http://sites.uci.edu/zlabe/arctic-temperatures/>
- <https://news.agu.org/press-release/warm-winter-events-in-the-arctic-are-becoming-more-frequent-lasting-longer/>
- <http://www.npolar.no/en/people/robert.graham/>
- <http://nsidc.org/arcticseaicenews/>
- <https://twitter.com/IceSheetMike/status/968152228212232192>
- <https://twitter.com/JohnCappelen/status/967669764243025921>
- <https://www.nature.com/articles/srep39084>
- [https://www.washingtonpost.com/news/capital-weather-gang/wp/2018/02/26/the-beast-from-the-east-just-coated-rome-in-snow-heres-what-it-looks-like/?utm\\_term=.a8d3fc3357e8](https://www.washingtonpost.com/news/capital-weather-gang/wp/2018/02/26/the-beast-from-the-east-just-coated-rome-in-snow-heres-what-it-looks-like/?utm_term=.a8d3fc3357e8)

**WACKY**  
**Warm Arctic Cold Continents**

**GLOBAL SEA ICE EXTENT - ARCTIC / ANTARCTIC  
RECORD LOWS JANUARY 2018**



**DOOMSDAY SEED VAULT  
SPITSBERGEN ISLAND, NORWAY  
RECEIVES \$12.7 MILLION UPGRADE  
FLOODING MAY 2017, MELTING PERMAFROST**

<https://www.msn.com/en-us/video/wonder/climate-change-prompts-dollar127m-upgrade-to-doomsday-arctic-seed-vault/vi-BBJFHcX?ocid=spartandhp>



**USGS and Portland State University,  
Glacier National Park**

**Since 1966, 39 glaciers dramatically reduced in size  
Some by as much as 85 %**

**Trump Admin & Zinke Interior Tried to Stifle Report**



[extremeicesurvey.org/](http://extremeicesurvey.org/)



# MARYLAND'S COAST



**MARYLAND CONTAINS ROUGHLY 3,100 MILES  
COASTLINE – INUNDATION ACCELERATES**

# **HOLLAND ISLAND, MARYLAND**

**This last home succumbed to the sea October 2010.**



**MORE THAN 400 ISLANDS LOST TO THE SEA SINCE  
BRITISH SETTLED THE REGION  
SUBSIDENCE AND SEA LEVEL RISE**

**Source: <http://www.chesapeakequarterly.net/sealevel/main8/>**

**Tilghman, Smith, Other islands rapidly eroding**



# Environmental Bills Pending MD General Assembly 2018

[hotlist@mdlcv.org](mailto:hotlist@mdlcv.org) 16 pages

- Environment - Expanded Polystyrene Food Service Products – Prohibition **HB 0538/SB 0651 – HEARD 03/08, 02/27**
- Ban on use POS funds to construct new/renovate old synthetic turf fields & construct poured-in-place shredded vehicle tire playgrounds for young children  
**SB 0763/HB 0505 – HEARD March 7th**
- Renewable/Green Energy Bills
  - Renewable Portfolio Standards
  - <https://notalotofpeopleknowthat.wordpress.com/2017/12/20/carbon-loop-hole-why-is-wood-burning-counted-as-green-energy/>
- Clean Energy Jobs Initiative **SB732 and HB1453 -- HEARD**
- 100% Clean Renewable Energy and Equity Act **HB878**
- Greenhouse Gas Emissions Reduction Act – Reauthorization
- <http://mgaleg.maryland.gov/2016RS/bills/sb/sb0323T.pdf>
- Regional Carbon Cost Collection Initiative HB 0939**
- <http://mgaleg.maryland.gov/webmga/frmMain.aspx?pid=billpage&tab=subject3&id=hb0939&stab=01&ys=2018RS>
- Renewable Energy – Offshore Wind Projects – Distance Requirements – at least 26 nautical miles (6,076 ft.) **HB 1135**  
**Hearing March 8 – Opposed MD LCV (29.9 Statute Mi.)**

# **MONTGOMERY COUNTY'S SOLID WASTE REDUCTION GOAL**

## **70% BY 2020**

### **Montgomery County Food Waste Strategic Plan**

<https://www.montgomerycountymd.gov/SWS/Resources/Files/foodwaste/Montgomery%20County%20MD%20Food%20Waste%20Strategic%20Plan%20Presentation.pdf>

[https://www.montgomerycountymd.gov/COUNCIL/Resources/Files/bill/2016/20161115\\_28-16.pdf](https://www.montgomerycountymd.gov/COUNCIL/Resources/Files/bill/2016/20161115_28-16.pdf)

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**Eileen Kao**  
**eileen.kao@montgomerycountymd.gov**  
**240.777.6406**



**REGIONAL FOOD WASTE COMPOSTING CO's**

**They need a dedicated facility. They don't have one  
and Montgomery County has not provided one!**

**INFORMATION EMBARGOED TIL 03/15/18**



Logs await processing at a wood pellet plant in Bardejov, Slovakia. An estimated 10 million cubic-meters of wood is logged each year from the country's forests.

Fred Pearce/Yale e360



Most wood pellets used by Drax Power Station, Britain, UK, trees logged in U.S. forests, such as Sampson County, North Carolina, logged in 2015.

Source: Dogwood Alliance





A U.S. timber processing plant, ships wood pellets to  
Drax power station, UK.

Source: Fred Pearce/Yale e360

## **Wood-pellet fuel emits more carbon than coal': U.S. watchdog to probe; Claims shock power giant Drax's 'green' supplier**



**Complaint: The supplier to the Drax plant in North Yorkshire, has been accused of using a loophole in EU and UK law to falsely claim to American investors that its wood-pellet fuel emits far less carbon dioxide than coal**

<https://notalotofpeopleknowthat.wordpress.com/2016/03/13/wood-pellet-fuel-emits-more-carbon-than-coal-u-s-watchdog-to-probe-shock-claims-on-power-giant-draxs-green-supplier-read-more/>



## **New Report Seeks Securities and Exchange Commission Investigation of Misleading Climate Claims by Biomass Industry Giant Enviva**



### **Investors With \$53 Billion in Assets Call On SEC To Scrutinize Bioenergy Sector Claims That Burning Wood Reduces Greenhouse Gas Emissions and Benefits Forests**

Pelham, MA and Asheville, NC. March 14, 2016 – Citing a new report by the **Partnership for Policy Integrity** and **Dogwood Alliance** on **Enviva Biomass**, the largest wood pellet manufacturer in the US, 34 investment groups with over \$53 billion in assets under management have requested that the SEC examine claims of climate benefits in the biomass energy sector, and enforce rules requiring companies to disclose material information, including climate-change related risks, to investors.

<http://www.pfpi.net/new-report-seeks-securities-and-exchange-commission-investigation-of-misleading-climate-claims-by-biomass-industry-giant>

# FUEL PELLETS



As an energy source, biomass can either be used directly via combustion to produce heat, or indirectly after converting it to various forms of biofuel. Conversion of biomass to biofuel can be achieved by different methods which are broadly classified into: thermal, chemical, and biochemical.

Pellets can be made from any one of five general categories of biomass: industrial waste and co-products, food waste, agricultural residues, energy crops, and virgin lumber.<sup>[2]</sup>

[https://en.wikipedia.org/wiki/Pellet\\_fuel](https://en.wikipedia.org/wiki/Pellet_fuel)

# Hemp Building USA

Click to view current and future Healthy Hemp Building projects

California



Texas



Arkansas



West Virginia



North Carolina



Virginia



Missouri



Maine



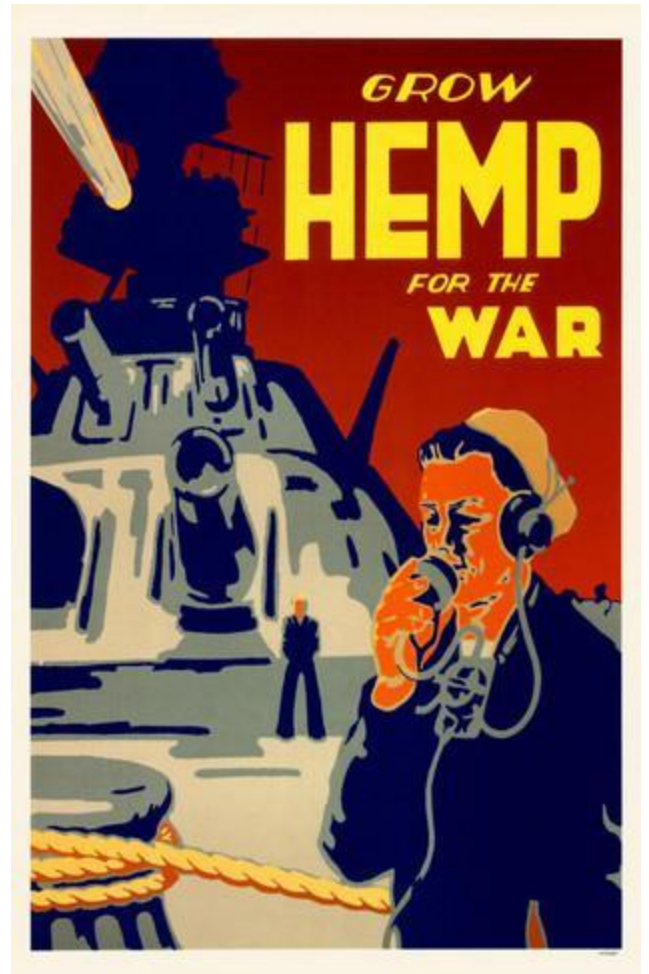
?



Maryland



IT HELPED WIN  
WORLD WAR II !  
IT CAN CERTAINLY  
HELP MARYLAND  
EXPAND GREEN SECTOR  
JOBS AND FARMING  
COMMUNITY INCOME!





**HEMP INDUSTRIES  
ASSOCIATION**

**CHTA**  **ACCC**

Canadian Hemp Trade Alliance  
Alliance Commerciale Canadienne du Chanvre

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[www.hemptrade.ca](http://www.hemptrade.ca)

**VH**

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**Vote Hemp™**



# CLIMATE CHANGE REQUIRES HEMP PRODUCTION TO INCREASE

