

**FUD = FEAR, UNCERTAINTY, DOUBT**



**FUD Nº 1**

**BITCOIN É  
USADO PARA  
ATOS ILÍCITOS**







# The FinCEN Files



## FinCEN Files

TOTAL NUMBER OF SUSPICIOUS  
ACTIVITY REPORTS (SARs):

**2,121**

TOTAL VALUE OF SUSPICIOUS  
TRANSACTIONS:

**\$2.099 tn**

TIME PERIOD OF REPORTED TRANSACTIONS: 1999-2017

■ Key banks and value of  
transactions they flagged

BANKS	AMOUNT
Deutsche Bank AG	\$1,310 bln
JP Morgan Chase	\$514.2 bln
Standard Chartered Plc	\$166.1 bln
Bank of New York Mellon	\$64.1 bln
Barclays Plc	\$21.6 bln
HSBC Holdings Plc	\$4.48 bln

NUMBER OF JOURNALISTS:  
**MORE THAN 400**

**88**  
NUMBER  
OF COUNTRIES

**110**  
NEWS  
ORGANISATIONS

Partners include:  
*Le Monde, BBC, NBC,  
Suddeutsche Zeitung, Asahi  
Shimbun, L'Espresso*



# "Drug cartels' bank," HSBC, to see no arrests

f Share /  Tweet /  Reddit /  Flipboard /  Email



Charts prepared by the U.S. Department of Justice are on display during a news conference to announce money laundering charges against HSBC on December 11, 2012, in the Brooklyn borough of New York City. HSBC Holdings plc and HSBC USA NA have agreed to pay \$1.92 billion and enter into a deferred prosecution agreement with the U.S. Department of Justice in regards to charges involving money laundering with Mexican drug cartels. / RAMIN TALAI/GETTY IMAGES

35%

ELLIPTIC

% of bitcoin transactions  
linked to crime

2012

2014

2016

2018

2020

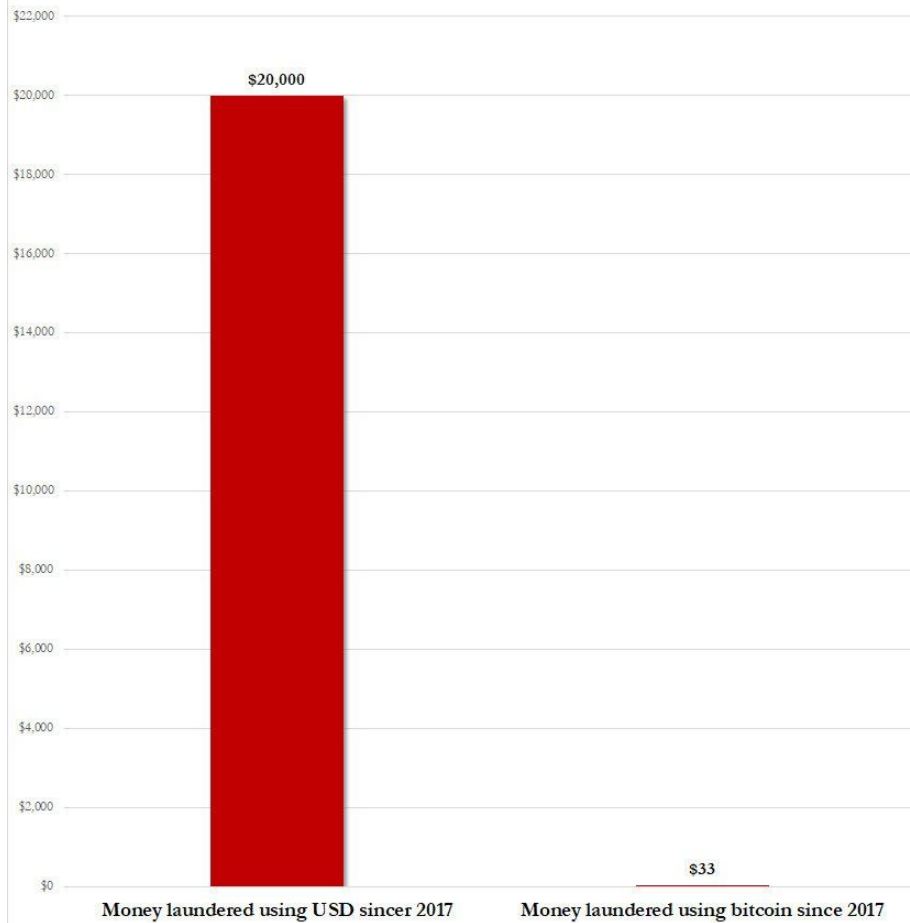
< 1%



Bitcoin4all

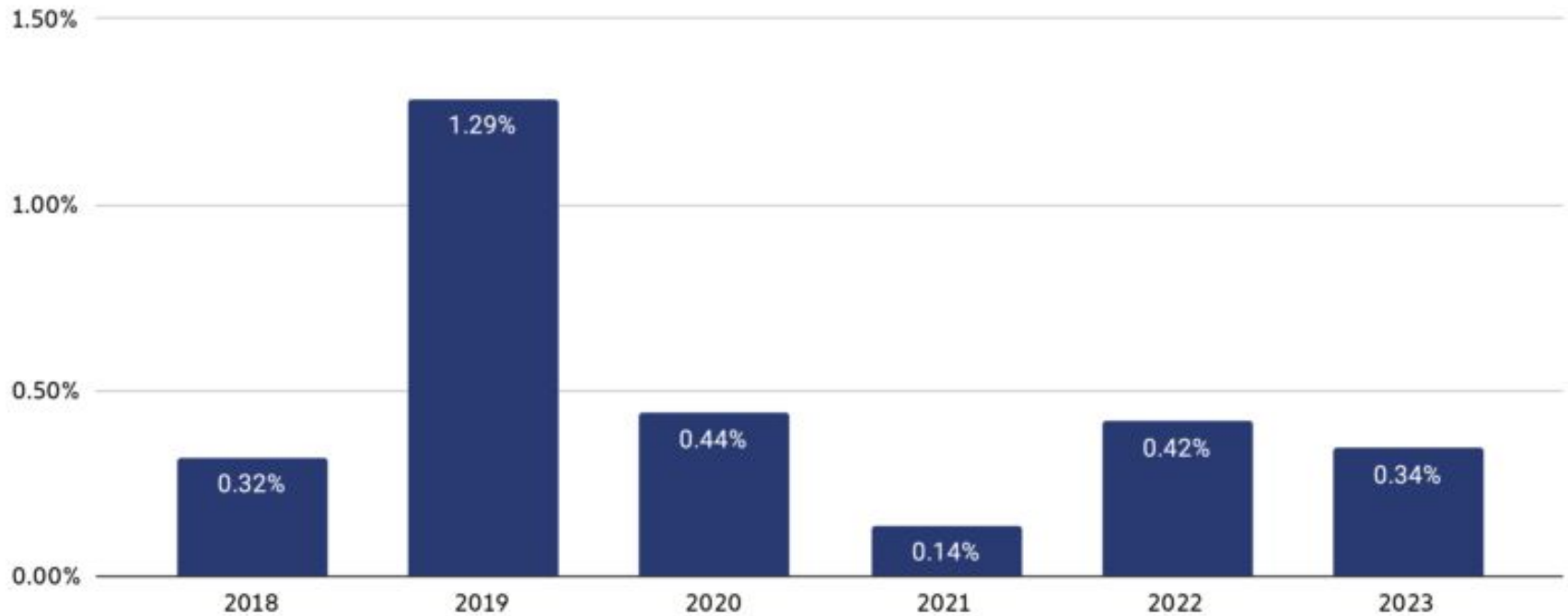


## Money Laundered Since 2017 using USD, Bitcoin (\$BN)



Source: United Nations Office on drugs and crime; Global Investigations Review

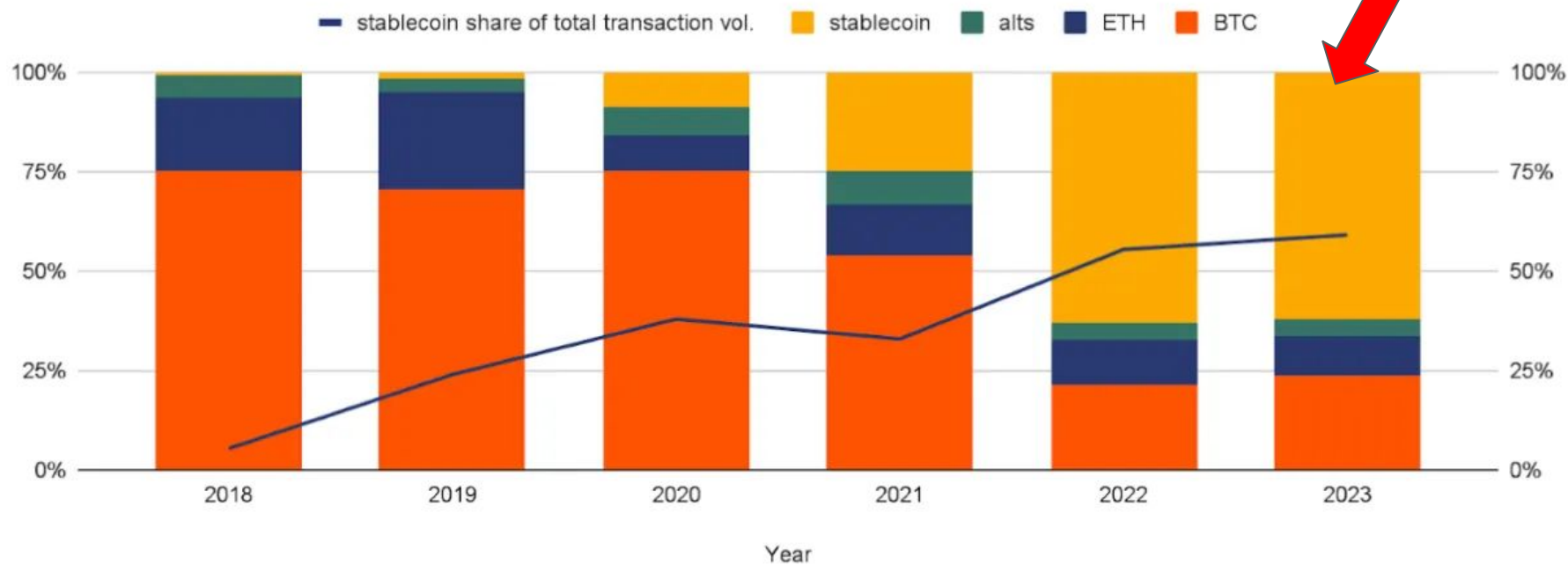
## Illicit share of all cryptocurrency transaction volume, 2018 - 2023



© Chainalysis



## Illicit transaction volume by asset type, 2018 - 2023



**FUD Nº 2**

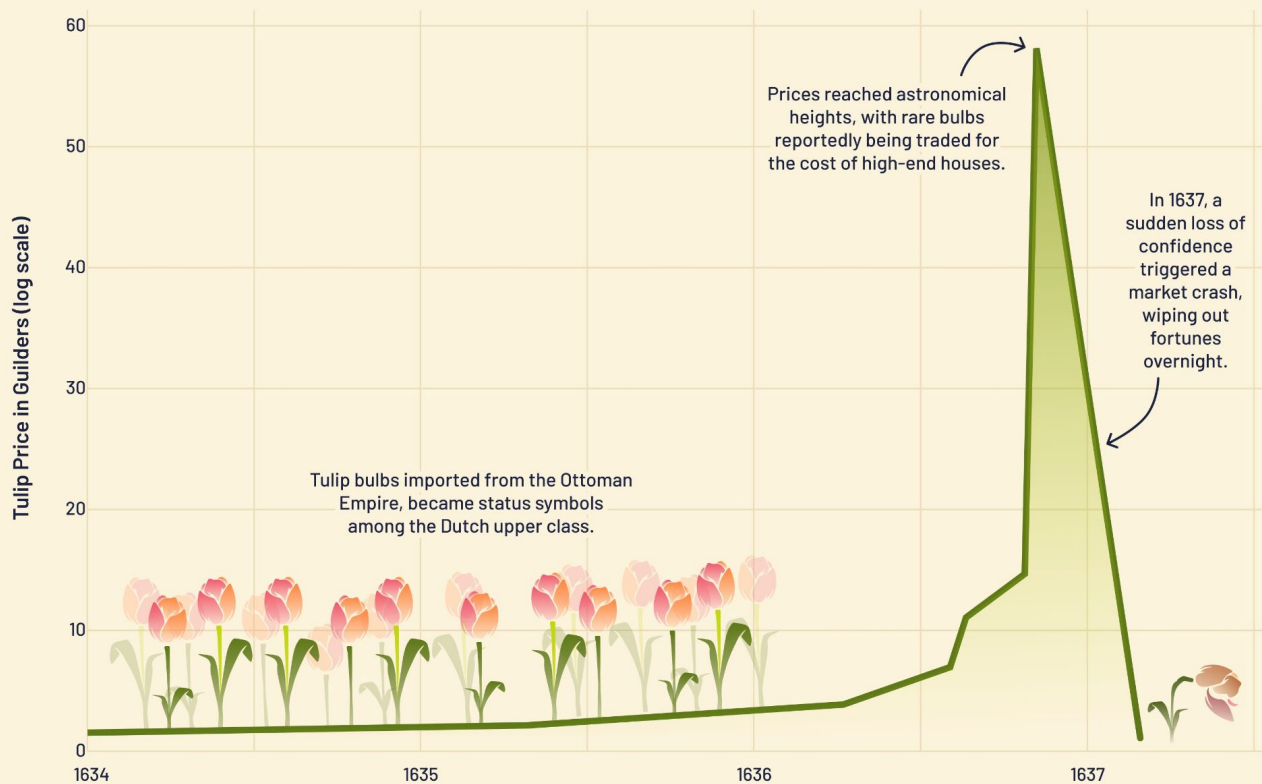
**BITCOIN  
É BOLHA**



**Bitcoin4all**



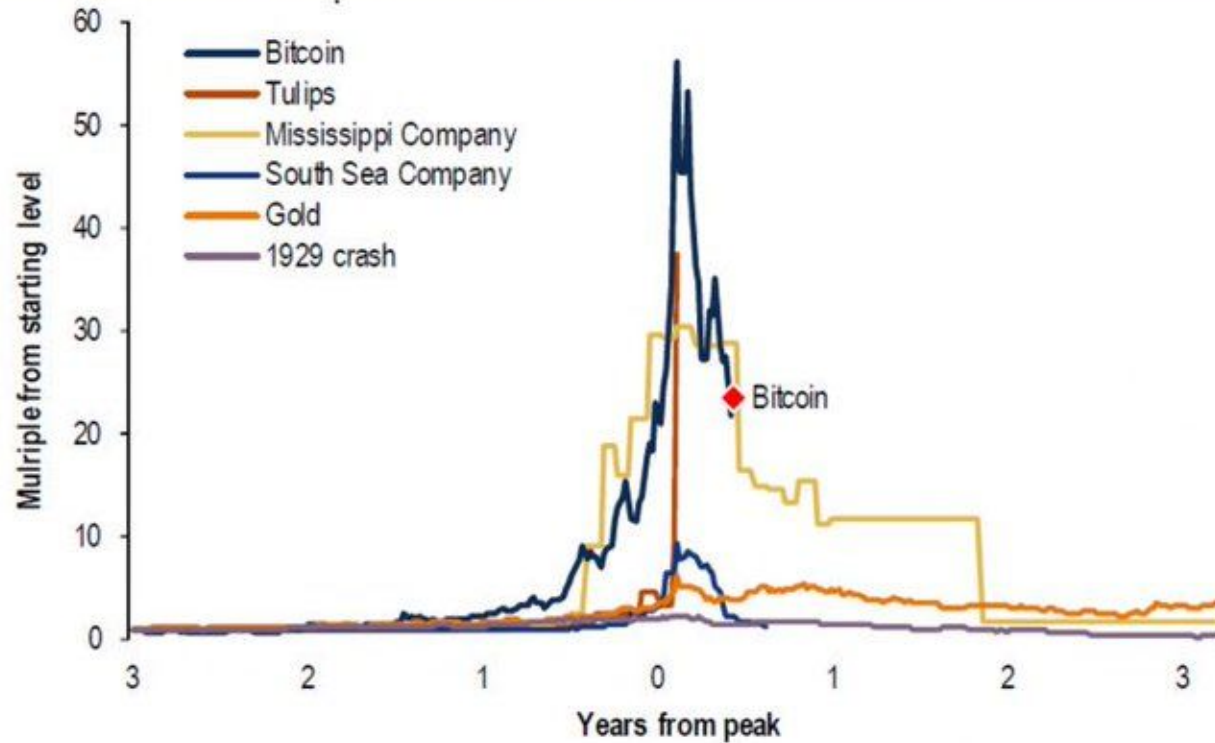
## The Tulip Mania Bubble



More charts: [genuineimpact.substack.com](https://genuineimpact.substack.com)

Source: Wall Street Club

Chart 2: The greatest asset price bubbles in history

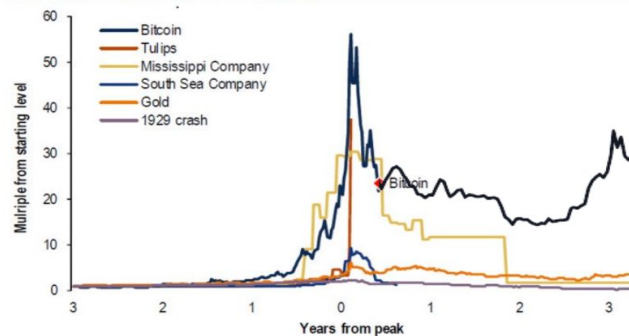


Source: BofA Merrill Lynch Global Investment Strategy, Global Financial Data, Garber (2000), Frehen (2012), Bloomberg



# BOLHAS SEGUEM SE VALORIZANDO?

Chart 2: The greatest asset price bubbles in history



Source: BofA Merrill Lynch Global Investment Strategy, Global Financial Data, Garber (2000), Frehen (2012), Bloomberg



# SEMPRE A MESMA HISTÓRIA...



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**FUD Nº 3**

**BITCOIN NÃO  
TEM  
UTILIDADE  
REAL**



# FUD Nº 4

**BITCOIN NÃO  
TEM VALOR  
INTRÍNSECO**





**FUD Nº 5**

**BITCOIN SERÁ  
SUBSTITUÍDO  
POR UM  
MELHOR**



**Bitcoin**

**FUD Nº 6**

**BITCOIN É  
JOGO DE AZAR**



**Bitcoin4all**



# Bitcoin: Bitcoin Profitable Days

No. days profitable holding Bitcoin: 5211

Total no. of days: 5249

% profitable days holding Bitcoin: 99.3%

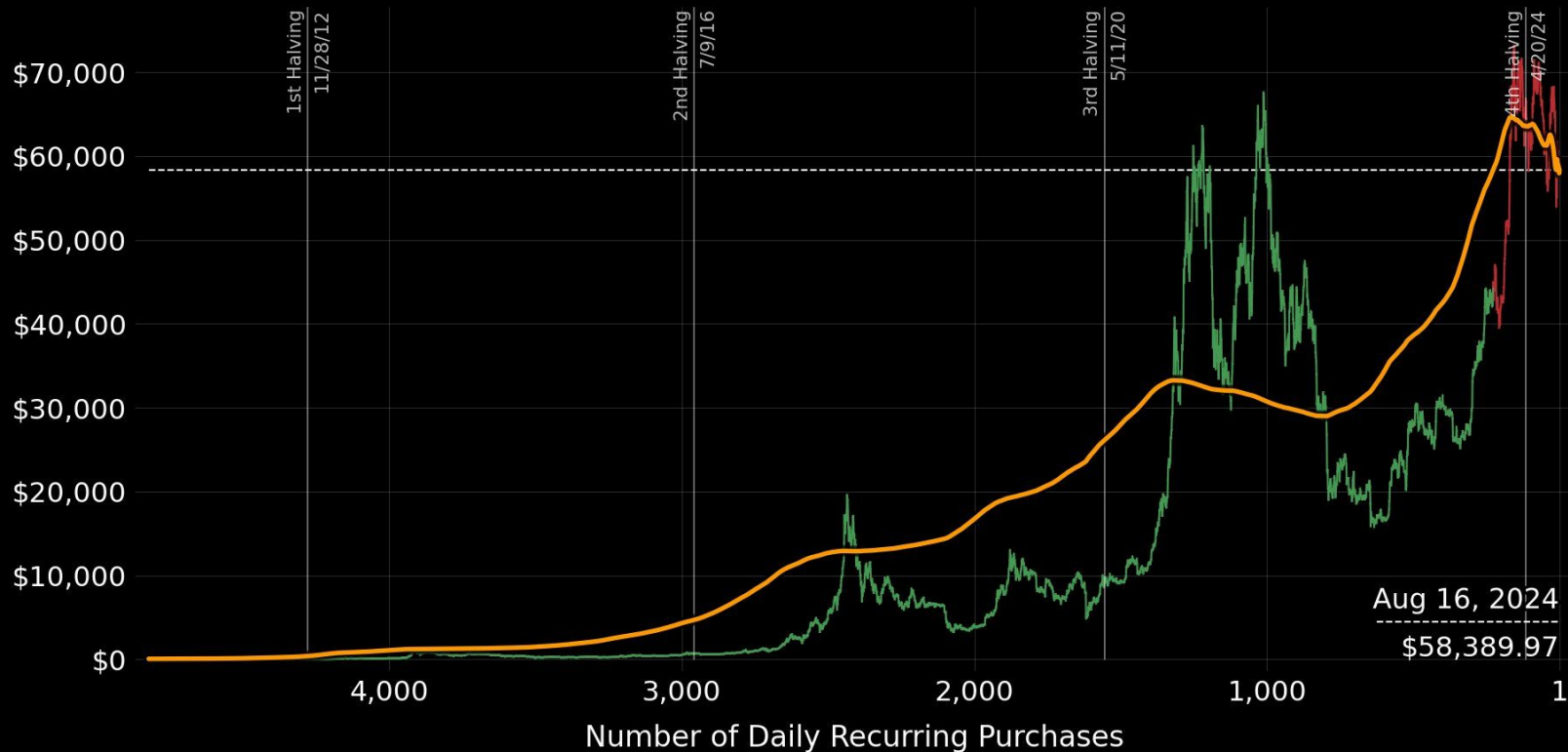


— BTC Price — BTC Price



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## Bitcoin Daily DCA Cost Basis (Weighted Average Cost)





**FUD Nº 7**

**BITCOIN  
NÃO É SEGURO**



# Bitcoin Uptime Tracker

The Bitcoin network has been functional for



99.98923809709%

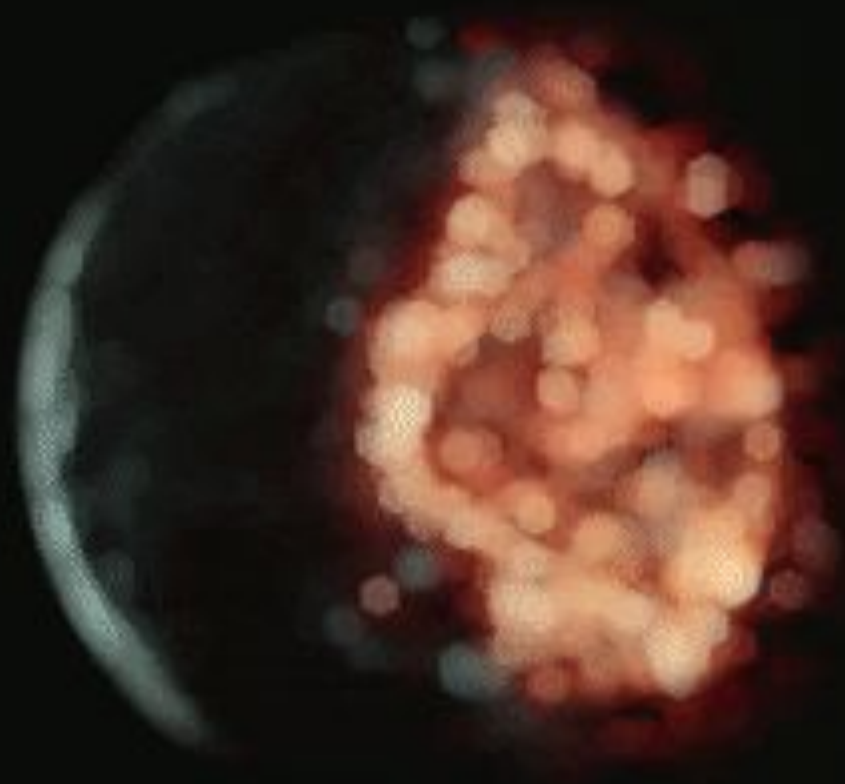
of the time since its inception on January 3, 2009 at 02:54:25 GMT



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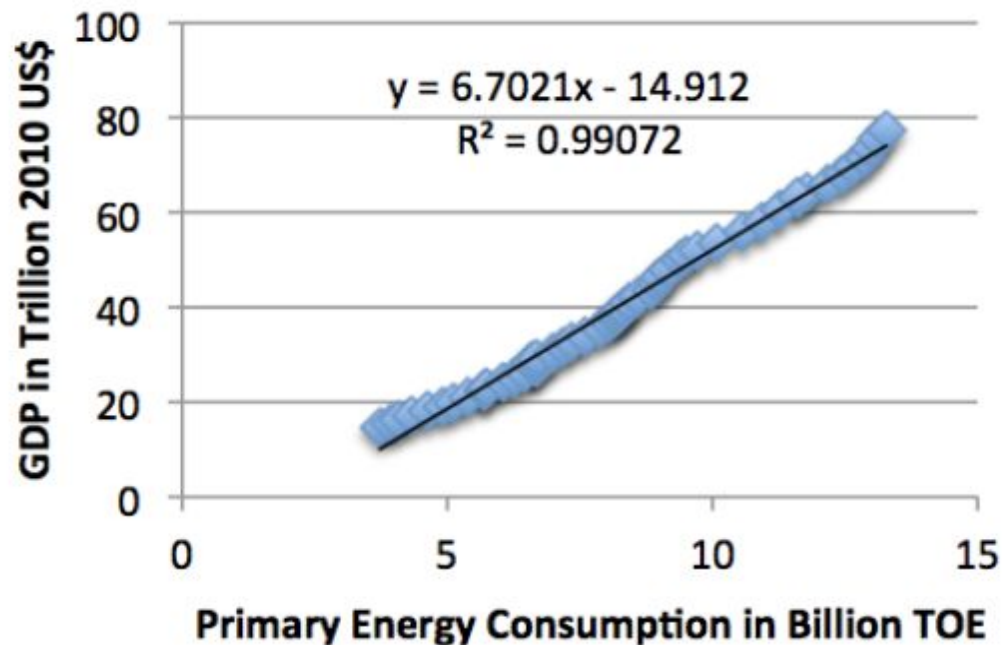
**FUD Nº 8**

**BITCOIN  
PREJUDICA O  
MEIO AMBIENTE**



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# CONSUMO DE ENERGIA X PIB GLOBAL 1965-2016



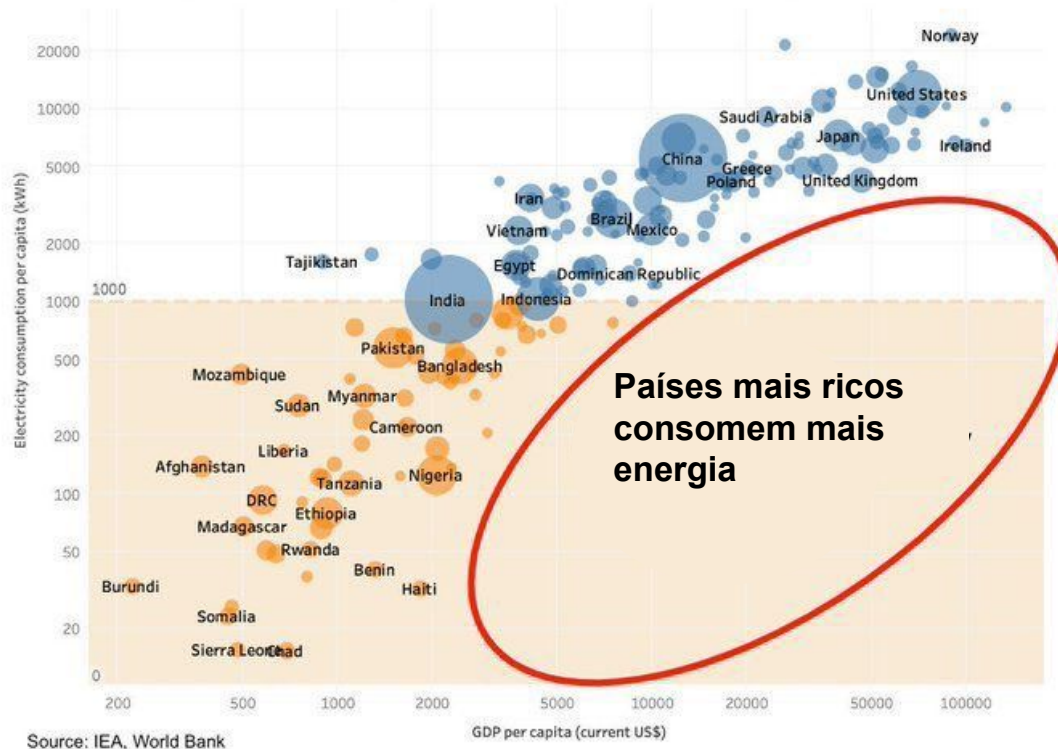
◆ 1965-2016  
— Linear (1965-2016)

Gail Tverberg  
OurFiniteWorld.com



# CONSUMO DE ENERGIA X SALÁRIOS

Electricity & Income (per capita, all countries)



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# ESCALA KARDASHEV



**TIPO 1**



**TIPO 2**



**TIPO 3**



# AQUECIMENTO GLOBAL

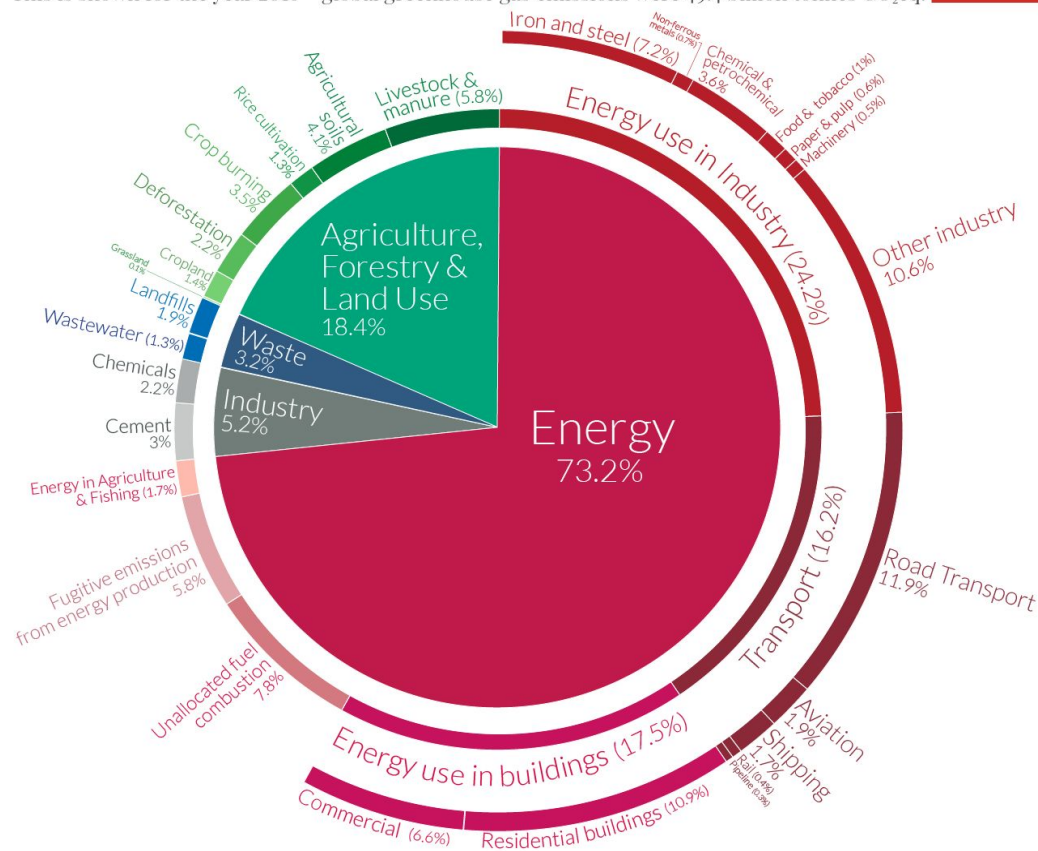


# MAIORES EMISSORES DE GASES ESTUFA

## Global greenhouse gas emissions by sector

This is shown for the year 2016 – global greenhouse gas emissions were 49.4 billion tonnes CO<sub>2</sub>eq.

Our World  
in Data

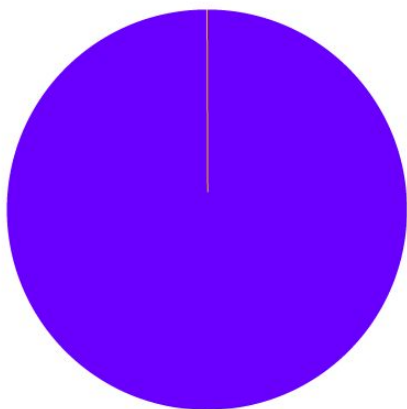


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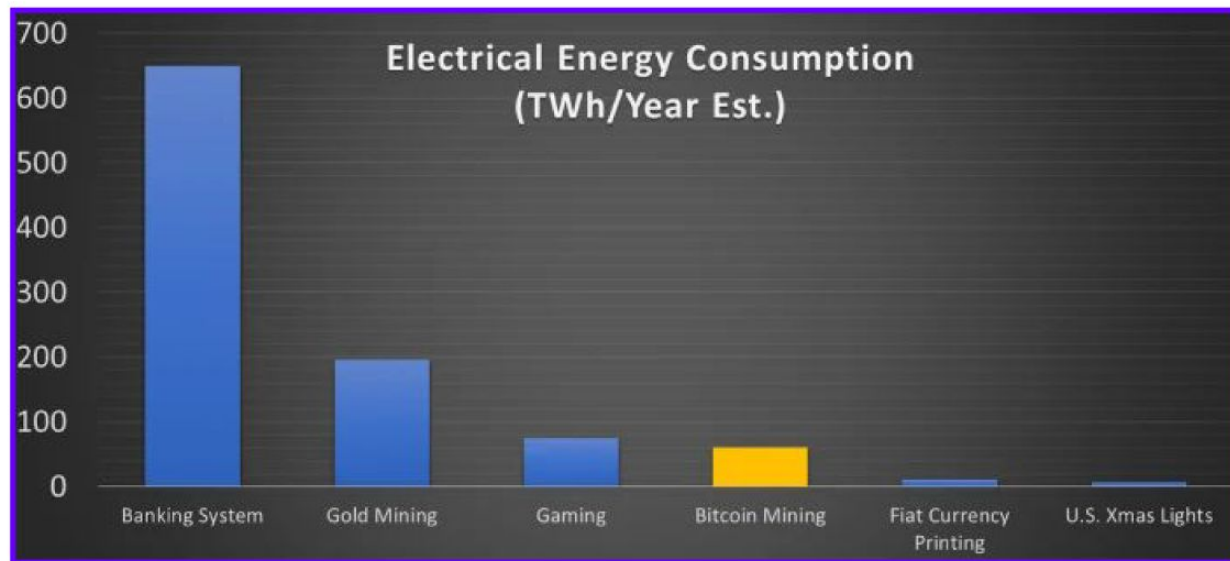


# QUANTO DE ENERGIA BITCOIN CONSOME?

**Bitcoin 0,1%**



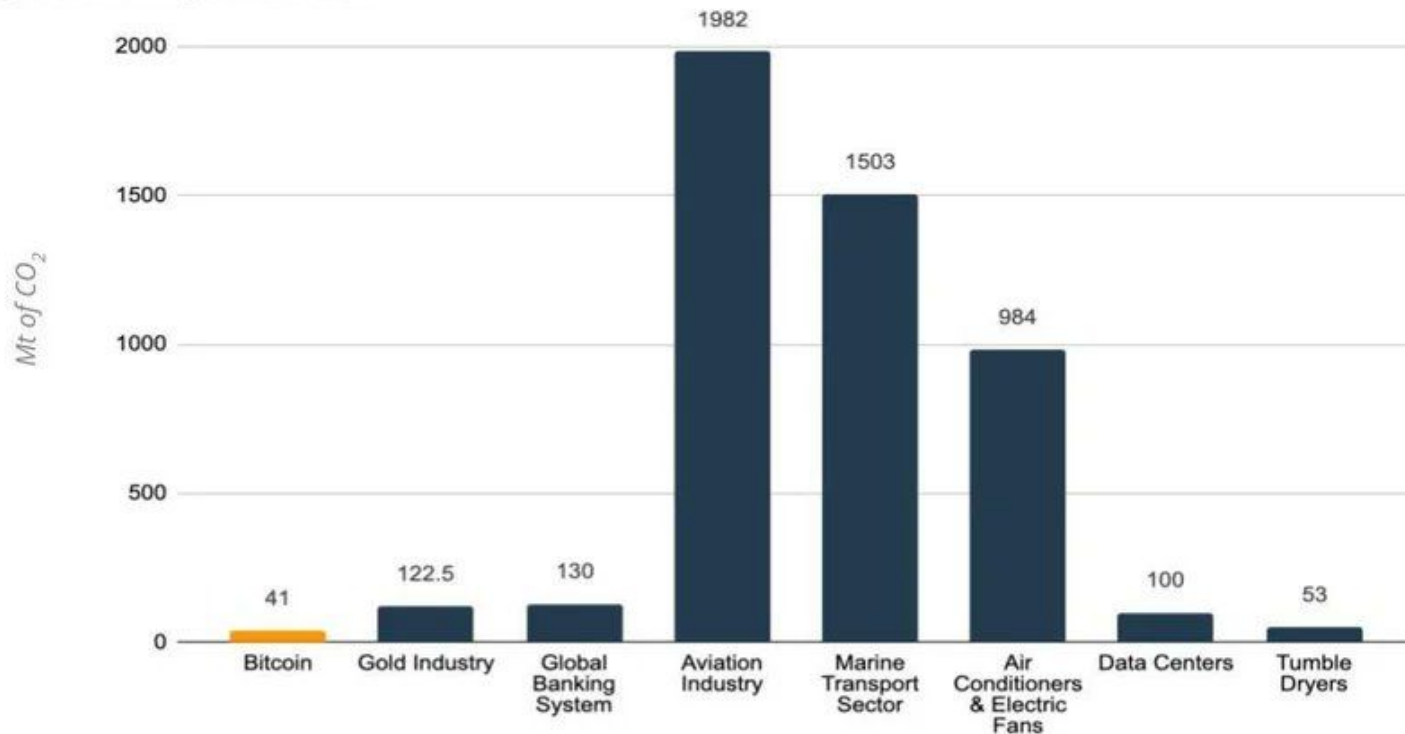
**Todo o resto**



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## Emissão de Carbono do Bitcoin Comparado com Outras Indústrias

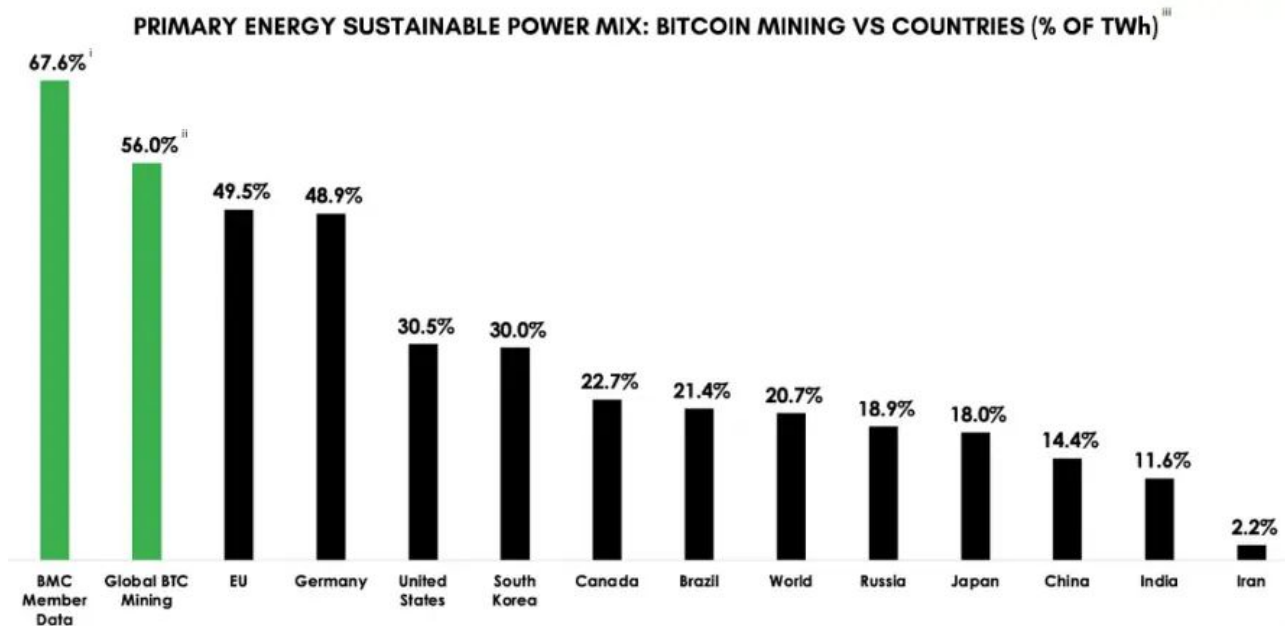
In 2021, the Bitcoin network emitted an estimated 41 metric tons of CO<sub>2</sub> which is lower than the global banking industry, gold industry, and every other industry shown below.



Data as of: Jan. 2022  
Source: CoinShares

Note: Data was pulled from CoinShares' report released in Jan. 2022 which references multiple data sources from various dates.

# BITCOIN TEM O MAIOR MIX SUSTENTÁVEL DE ENERGIA



SOURCES: <sup>i</sup> VALUE REPRESENTS DATA COMPILED FROM BMC ADVISORY COUNCIL MINERS' ANNUALIZED PRIMARY ENERGY USE  
<sup>ii</sup> ESTIMATED GLOBAL BITCOIN NETWORK ANNUALIZED POWER BASED ON BMC ANALYSIS, ASSUMPTIONS AND EXTRAPOLATION.  
<sup>iii</sup> COUNTRY DATA COMPILED FROM BP'S STATISTICAL REVIEW OF WORLD ENERGY (2021). [HTTPS://WWW.BP.COM/EN/GLOBAL/CORPORATE/ENERGY-ECONOMICS/STATISTICAL-REVIEW-OF-WORLD-ENERGY/PRIMARY-ENERGY](https://www.bp.com/en/global/corporate/energy-economics/statistical-review-of-world-energy/primary-energy).

Bitcoin  
Mining  
Council

# USO DE ENERGIA DO BITCOIN VS USO DE ENERGIA GLOBAL TOTAL



**162,194 TWh<sup>i</sup>**  
**TOTAL ENERGY GENERATED WORLDWIDE**

**50,000 TWh<sup>ii</sup>**  
**ENERGY LOST DUE TO INEFFICIENCIES**

**189 TWh<sup>iii</sup>**  
**ENERGY CONSUMED BY BITCOIN MINING  
ON THE WORLD'S ELECTRIC GRID**

**GLOBAL BITCOIN  
MINING CONSUMES  
0.1%**  
**OF THE WORLD'S ENERGY PRODUCTION**

**GLOBAL BITCOIN  
MINING CONSUMES  
0.4%**  
**OF THE WORLD'S ENERGY WASTED**

© 2021 BITCOIN MINING COUNCIL

SOURCES: <sup>i</sup> BP STATISTICAL REVIEW OF WORLD ENERGY (2021), <https://www.bp.com/en/global/corporate/energy-economics/statistical-review-of-world-energy/primary-energy>  
<sup>ii</sup> INTERNATIONAL ENERGY AGENCY, <https://www.iea.org/data-and-statistics/data-product/world-energy-statistics-and-outlook>  
<sup>iii</sup> <https://cbec.io/rs/> (UPDATED: JUNE 29, 2021) ANNUALIZED VALUES ARE USED FOR BITCOIN MINING ENERGY AND ELECTRICITY USE.

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Mining  
Council**

© 2021 Bitcoin Mining Council

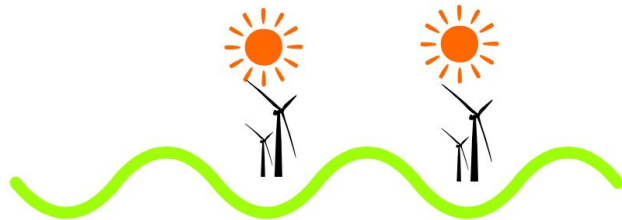


# A BATERIA BITCOIN



# BITCOIN ESTABILIZA FONTES RENOVÁVEIS

**PRODUÇÃO INTERMITENTE**



+

=

**PRODUÇÃO  
ESTABILIZADA**



**MINERAÇÃO COM O  
EXCEDENTE ENERGÉTICO**

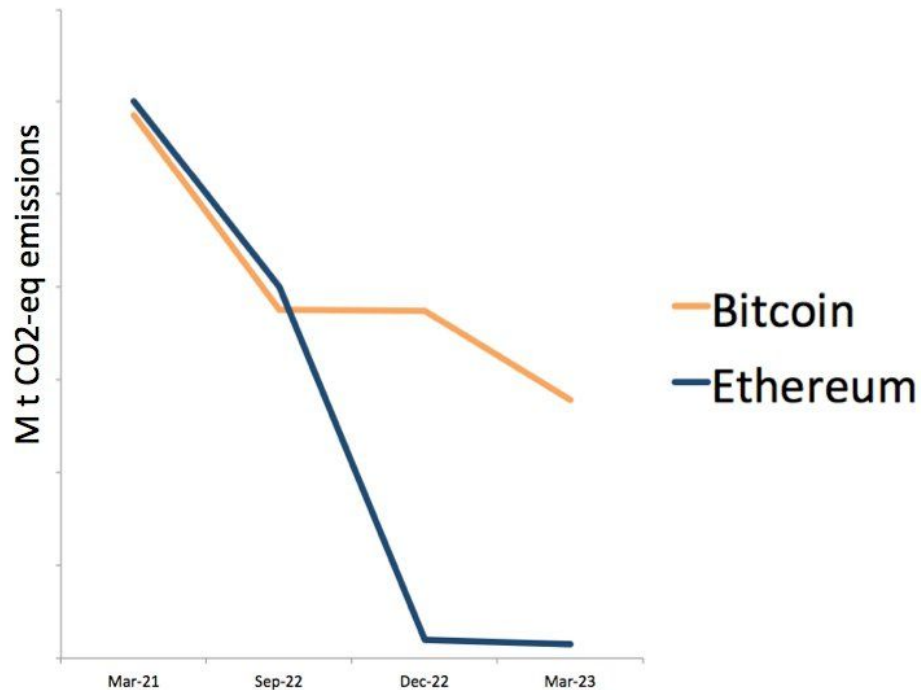


# BITCOIN CARBONO NEGATIVO



## O Caminho para Carbono Neutro

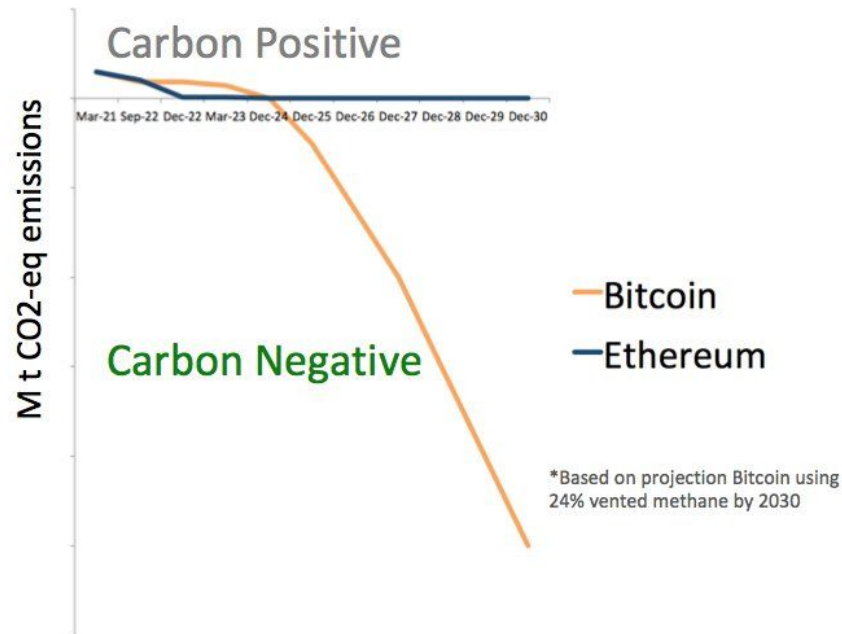
source: batcoinz.com / @dsbatten



Fonte: Daniel Batten

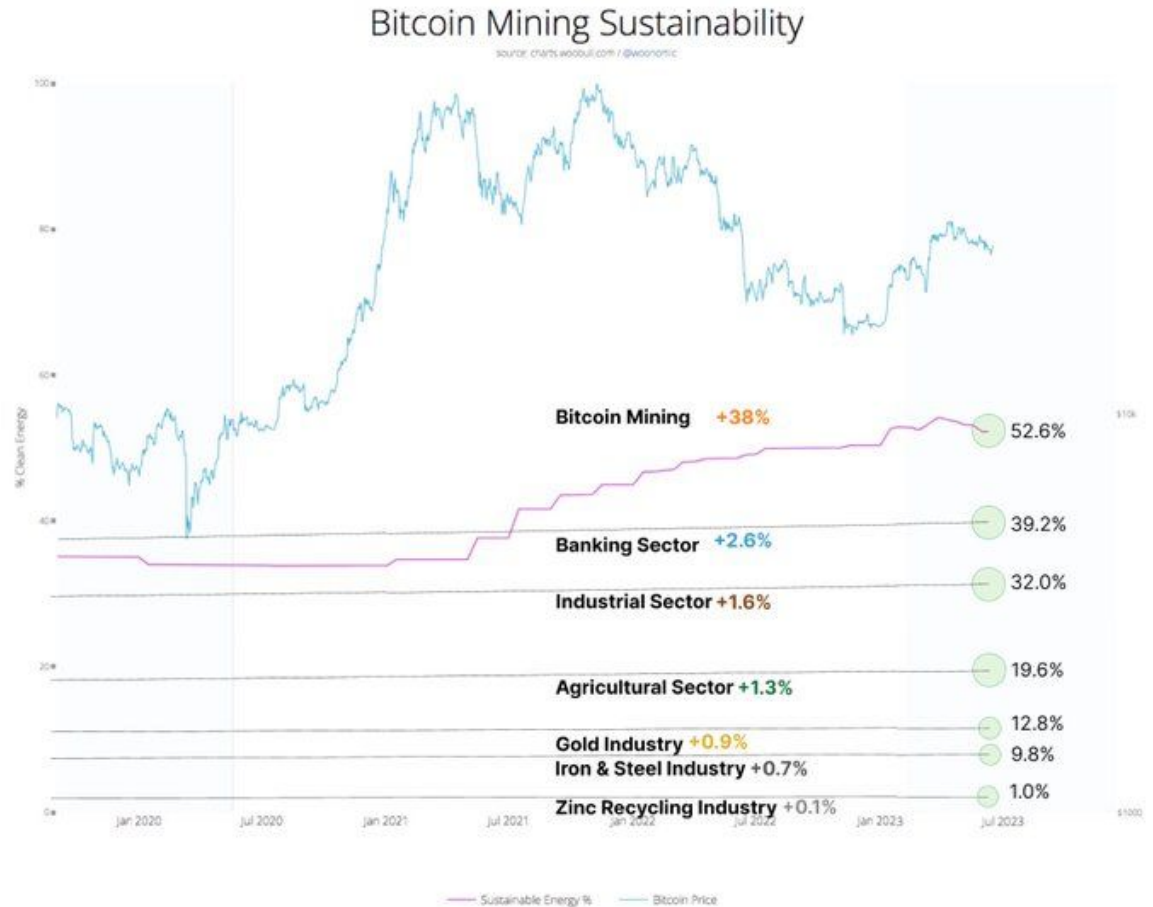
## O Caminho para Carbono Negativo

source: batcoinz.com / @dsbatten





# BITCOIN É A INDÚSTRIA MAIS ESG



**MESMO QUE  
CRESCA AS  
EMISSIONES NÃO  
CRESCEM**

## Bitcoin growth rate comparisons

source: @woonomic / @dsbatten



### 4 Yr Change

1. Hash rate  
**+475%**

2. Price  
**+163%**

3. Total Users  
**+289%**

4. Emissions  
**-9.4%**

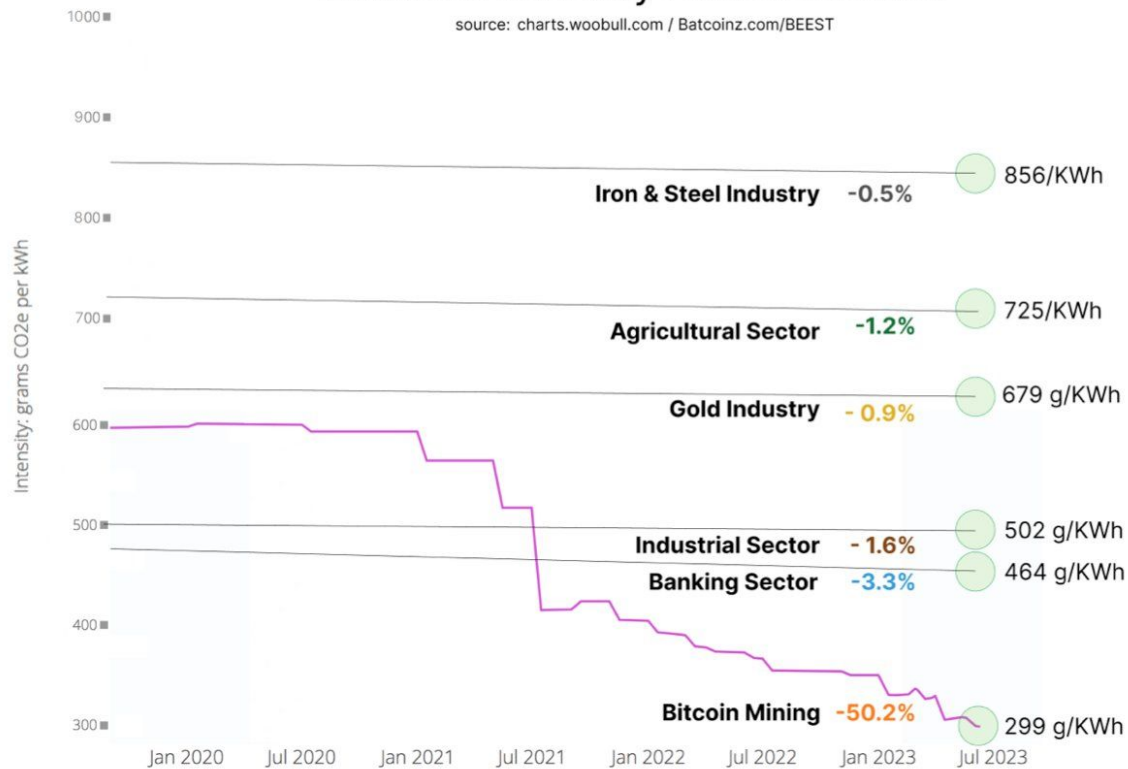


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**EM 4 ANOS FOI O QUE  
MAIS REDUZIU  
EMISSIONES DE CO2**

## Emission Intensity Across Sectors

source: charts.woobull.com / Batcoinz.com/BEEST

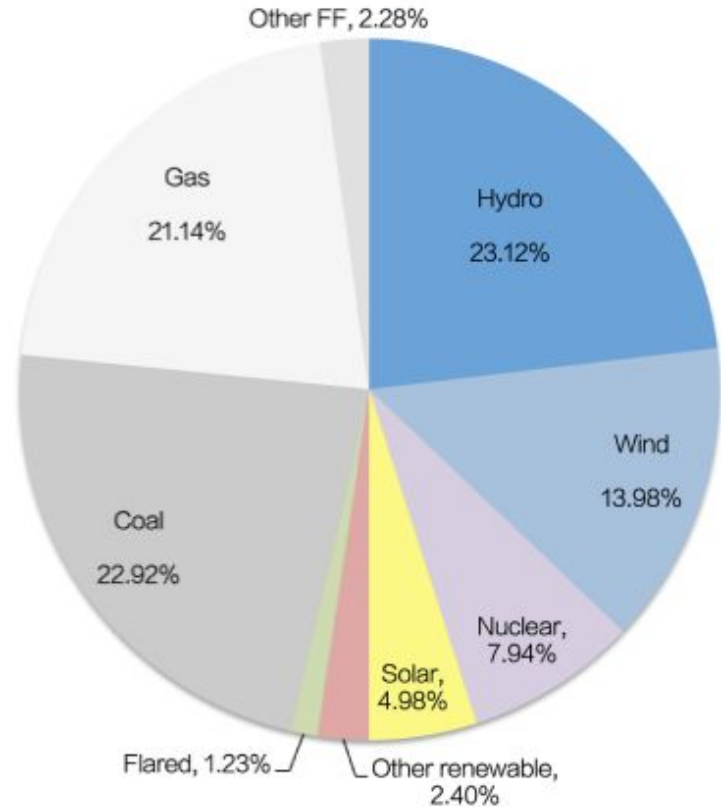


@dsbatten

# PRINCIPAIS FONTES

## Bitcoin Energy Sources

source: batcoinz.com / @dsbatten

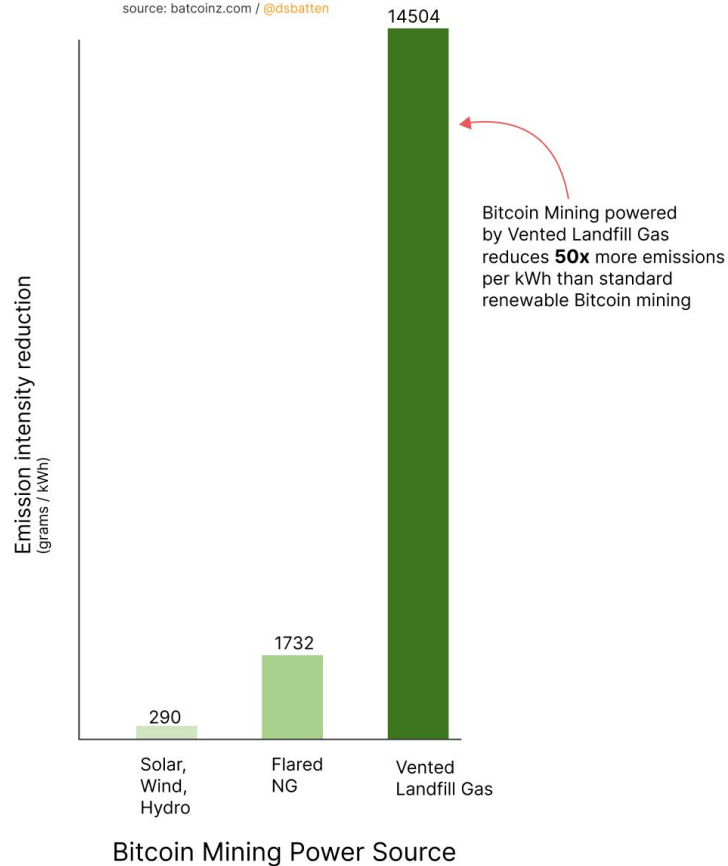




# MINERAÇÃO EM ATERROS SANITÁRIOS

## Emission Intensity

source: batcoinz.com / @dsbatten



# ATACAR A ENERGIA É UM BODE EXPIATÓRIO SOCIALMENTE MAIS ACEITO



Global Agenda | Blockchain | Future of Energy | Future of the Environment

**In 2020 Bitcoin will consume more power than the world does today**



© 2022 DARIN FEINSTEIN

## Newsweek

### TECH & SCIENCE

## Bitcoin Mining on Track to Consume All of the World's Energy by 2020

BY ANTHONY CUTHBERTSON ON 12/11/17 AT 10:07 AM EST

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TECH & SCIENCE

BITCOIN

ENVIRONMENT

MINING

ENERGY



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00:00

04:06

A network that underpins the virtual currency bitcoin is projected to require all of the world's current energy production in order to support itself within three years, according to estimates.

The amount of power necessary to support bitcoin has increased significantly in recent months, as its price has surged to record levels. On Monday, one bitcoin was worth around \$16,500—a twentyfold increase since the start of 2017.





World Economic Forum ✓  
@wef

...

In 2020 Bitcoin will consume more  
power than the world does today  
[wef.ch/2odVW4z](https://wef.ch/2odVW4z)



8:41 AM · 16/12/2017 · Buffer

# ATAQUES DO GREENPEACE



**Change The Code** @CleanUpBitcoin · Mar 29, 2022

#Bitcoin uses more energy than some countries, and it's already resurrecting fossil fuel plants and driving devastating climate impacts.

We can reduce Bitcoin's carbon emissions and make crypto cleaner.  
#ChangeTheCode #CleanUpBitcoin

Here's how:



**Greenpeace USA**  
@greenpeaceusa

"I'd be booed off stage. They'd throw tomatoes at me."

Our @CleanUpBitcoin campaign lead @joshdarcher spoke at @SolanaConf #Breakpoint2023 about our work to stop #Bitcoin's growing carbon emissions.

Bitcoin's most fervid supporters may not like it, but Bitcoin needs to change.



Readers added context they thought people might want to know

GreenpeaceUSA was paid \$5 million by the founder of Ripple to create the "Change the Code" campaign: [bloomberg.com/news/articles/...](https://www.bloomberg.com/news/articles/...)

It should be noted that anyone, including GreenpeaceUSA or Josh Archer, can change the Bitcoin code at any time.



# GREENPEACE FUND

Help Greenpeace protect the planet. Please donate today.



I want to become a monthly supporter with a gift of:

☐ \$50 ☐ \$100 ☐ \$250 ☐ \$1,000 ☐ Other \$  per month

Monthly giving is the best giving option for both Greenpeace and our supporters - it allows us to have a dependable base of support and save time, banking fees and paper by not having to send supporters future reminders and renewal notices.

I want to make a donation of:

☐ \$10,000 ☐ \$5,000 ☐ \$2,500 ☐ \$1,000 ☐ \$500 ☐ Other \$

Make a one-time  
Bitcoin donation



\*First Name

\*Last Name

\*Address 1

\*E-mail

Phone

☐ This is a cell phone.



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# GREENPEACE COMPRADO!



JESSE COGHAN

29 MAR 2022

## Greenpeace e cofundador da Ripple se unem em campanha por mudança no código do Bitcoin

Chris Larsen, cofundador da Ripple também participou do apelo, dizendo que o Bitcoin é a “exceção” agora que o modelo do Ethereum está prestes a mudar.



## Tecnologia

### Bitcoiners zombam da campanha de US\$ 5 milhões de Chris Larsen para forçar uma mudança de código BTC

O executivo da Ripple e aliados do Greenpeace presumem que tudo o que é necessário para uma mudança fundamental no código do bitcoin é conseguir a adesão de 50 empresas e desenvolvedores principais.

Por **Eliza Gkritsi** ⌚ 29 de março de 2022 às 11h52 Atualizado 11 de maio de 2023 às 12h47.



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# SKULL OF SATOSHI



GREENPEACE EXPOSES  
BITCOIN'S CLIMATE DAMAGE





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# O PRÓPRIO ARTISTA SE REDIMIU



Von Wong @thevonwong · Mar 25

I made the Skull believing that Bitcoin Mining was a simple black-and-white issue. I've spent my entire career trying to reduce real-world physical waste, and PoW felt intuitively wasteful.

Of course, I was wrong.

Few things in the world are black and white. Dumb me. /4

80

438

2.7K

347K



Von Wong @thevonwong · Mar 25

The last two days have been spent in private conversations with both GP and pro-env bitcoiners like @level39 @thetrocro @DSBatten. I've discovered a whole new world of initiatives that fill me with hope. /5

24

80

1.7K

120K



Von Wong @thevonwong · Mar 25

The #SkullofSatoshi is a phenomenal accident.

It represents, literally, what both sides believe to be true: That Bitcoin has the potential to be more environmentally friendly; a force for good for the environment.

/6







Bitcoin's large electricity usage could turn out to be a benefit in some cases, Batten argued, where it could soak up excess supply of energy generated via renewable sources such as solar or wind. A KPMG report looking at bitcoin and ESG notes potential social benefits, too. The cryptocurrency could allow previously unprofitable, small electrical grids linked to local renewable energy to become "financially viable" in developing countries and in turn improve electricity access, it said.



## Bitcoin could support renewable energy development

A new study calculated renewable energy projects' potential to profit from bitcoin mining during the precommercial development phase, when a wind or solar farm is generating electricity, but has not yet been integrated into the grid.

# **MINA DE OURO**



# **MINERADORA DE BITCOIN**

