



Cost of Clean Energy: The Clean Green Machine

Episode References

Intro Music

The Future Ancient Now, Nathan Moore

<https://www.youtube.com/watch?v=Utyopp5mDgs>

Soundbites - Intro

Hydropower is woven into the very fabric of our nation. It is our largest source of renewable energy, provides the backbone....

US Department of Energy, Hydropower Vision (May 16, 2016)

<https://www.youtube.com/watch?v=YRMUqxlpJQU>

The dam is located at along the... in Southwestern Sichuan province. It is the latest mega dam in China and officials...

France 24. China's Three Gorges Dam: The environmental impact of mega dams' construction (Oct 27, 2021).

<https://www.youtube.com/watch?v=CBrCk2V4B1U>

When we talk about the largest hydropower project in the world. People often cite China's Three Gorges dam, but a much older dam has recently been producing much more electricity. This monster dam is the Itaipu dam on the river Pirana bordering Brazil and Paraguay.

CNBC International, South America's titan of hydropower | Sustainable Energy, (Feb 17, 2017)

<https://www.youtube.com/watch?v=RKN0iPA0Zil>

Three hundred and seventy km of the capital Dar-Es-Salaam... Julius Nyerere Hydropower Project

African Insider, Tanzania is Constructing Africa's 2nd LARGEST Hydro-power dam - Julius Nyerere Hydropower Station, May 28, 2020 (00:31)

<https://www.youtube.com/watch?v=XGG5-mwPt4g>



Soundbites – Episode

4:32: overlap Costa Rica was one of the world’s first countries to power its energy grid from almost 100% renewable energy sources and almost three quarters came from hydropower

International Hydropower Association, Costa Rica: 100% renewable with hydropower (Sept 17, 2021) (00:00)

<https://www.youtube.com/watch?v=zL6pWw83GEg&t=73s>

4:48: Costa Rica ran on 100% renewable energy for 337 days and 11 months in 2020

International Hydropower Association, Costa Rica: 100% renewable with hydropower (Sept 17, 2021) (00:55)

<https://www.youtube.com/watch?v=zL6pWw83GEg&t=73s>

5:10 ...hydropower, a vital component of the clean energy mix the world needs to address climate change. Now the country has...

International Hydropower Association, Costa Rica: 100% renewable with hydropower (Sept 17, 2021) (00:40)

<https://www.youtube.com/watch?v=zL6pWw83GEg&t=73s>

5:30 Spanish announcement of Costa Rica 100% renewable

International Hydropower Association, Costa Rica: 100% renewable with hydropower (Sept 17, 2021)

<https://www.youtube.com/watch?v=zL6pWw83GEg&t=73s>

9:12 It is quite simply the largest, most expensive, the most powerful and arguably the most controversial... imagine this 185m high. That’s the equivalent of a building of more than 60 floors...

France 24. China’s Three Gorges Dam: the disaster project revisited (Oct 3, 2020).

<https://www.youtube.com/watch?v=VEqZu3Nr3Q8>



9:30 The obligatory relocation of more than 2 million people has given rise

(Source no longer available)

9:39 On the Yaolong river this Buddhist monastery will be affected as well

France 24. China's Three Gorges Dam: The environmental impact of mega dams' construction (Oct 27, 2021). (01:14)

<https://www.youtube.com/watch?v=CBrCk2V4B1U>

9:46 It has also led to huge changes for the Yaolong River's biodiversity is now. The world's third largest river is now all but devoid of fish.

(Source no longer available)

9:53 It has also had an environmental toll, triggering landslides and harming biodiversity

France 24. China's Three Gorges Dam: The environmental impact of mega dams' construction (Oct 27, 2021). (01:50)

<https://www.youtube.com/watch?v=CBrCk2V4B1U>

10:30 In more than 150 indigenous assemblies our community decided that it did not want that hydroelectric dam.... Berta filed complaints with the Honduran government and organized peaceful protests... she became a target for the government.

Democracy Now, How Many More? 116 Environmental Defenders Were Murdered Last Year, Mostly in Latin America, April 22, 2015.

<https://www.youtube.com/watch?v=VQKj8zAE4BM>

23:47 Biden reiterated his commitment to the US-Canada relationship and pledged to work together on achieving net zero emissions. "We also doubled down..."

Reuters, U.S., Canada aim for net zero emissions by 2050, Feb 24, 2021 (00:20)

https://www.youtube.com/watch?v=eUWe2U_ANOU



One of the world's most criticized polluters, Australia, has adopted a target of net zero by 2050

BBC News, Australia pledges net zero emissions by 2050 - BBC News, Oct 26 2021

<https://www.youtube.com/watch?v=8Owd5xswtrU>

24:05 ...a better world than we inherited. And that's why today we are announcing we will be ending our contribution to climate change by 2050...

Channel 4 News, Climate crisis: UK 'first major economy' to commit to zero emissions by 2050 (June 12, 2019) (00:16)

<https://www.youtube.com/watch?v=MtFjfTBFPOk>

The world's biggest source of greenhouse gases who pledged carbon neutrality by 2060

Al Jazeera English, Net zero by 2060: China's bold new carbon emissions goal, Sept 24, 2020 (01:30)

<https://www.youtube.com/watch?v=JhMCCgVz-Q8>