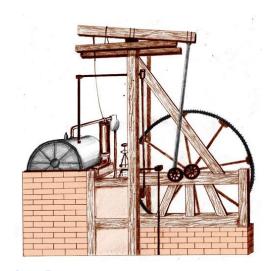


Multimedia Library Collection: Art & Graphics

The Steam Engine

Porras Chassignet, Marina

Initiated by the growing need for raw materials, the development of steam power set off a chain reaction. In order to pump pit water out of mines, steam engines were built near mining sites. Because these steam engines were powered by coal, coal mining became profitable—a mutually beneficial system. Steam power became the energy source for many machines and vehicles, making it cheaper and easier to produce commodities in large amounts. This in turn increased the demand for raw materials used to build more machines that can produce even more commodities. This interdependency accelerated during the Industrial Revolution, and provides insight into the key factors that initiated the social process that today, in turn, gives rise to the Anthropocene revolution.



Steam Engine Marina Porras Chassignet

Drawn by Marina Porras Chassignet, 2014.

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Lifting water with fire: The steam engine

Text and images by Marina Porras Chassignet www.marinaporras.c om University of the Arts (UdK), Berlin

 $\label{lem:condition} \mbox{Art \& Graphics Collection, Multimedia Library, Environment \& Society Portal The Steam Engine}$

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Lifting Water with Fire "Wow, what power this steam has!"

Drawn by Marina Porras Chassignet, 2014.

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Now we're going to put big water pumps into the mines!

Drawn by Marina Porras Chassignet, 2014.

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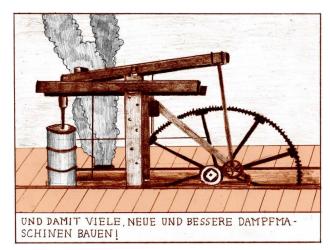


We'll finally be able to dig deeper into the ground and get more coal and iron out of the Earth!

Drawn by Marina Porras Chassignet, 2014.

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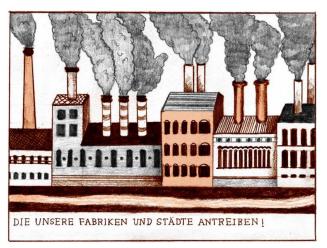
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And, by doing that, we'll be able to build new and improved steam engines!

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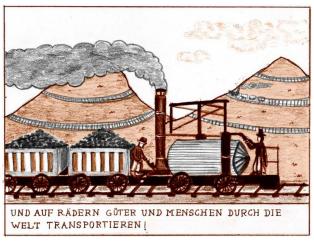
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That will power our factories and cities!

Drawn by Marina Porras Chassignet, 2014.

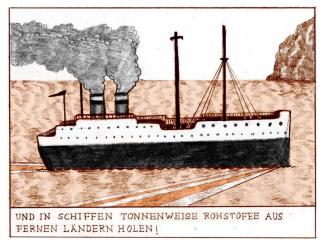
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And will transport goods and people all over the world on wheels!

Drawn by Marina Porras Chassignet, 2014.

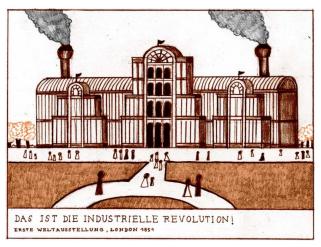
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And get raw materials from far-away lands using ships!

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That is the Industrial Revolution! The first World Fair, London 1851

Drawn by Marina Porras Chassignet, 2014.

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Artist's comment:

I used to think that steam engines were only used in trains, so I was suprised to learn of the importance of this machine. Humans created something very powerful from something as simple as steam. The steam engine is a good example for how humanity's constant striving for innovation and development has changed the world. It opened up new dimensions of possibility.

How to cite

Porras Chassignet, Marina. "The Steam Engine." Environment & Society Portal, Multimedia Library, 2014. http://www.environmentandsociety.org/node/6627/.

The comic also appears in Alexandra Hamann, Reinhold Leinfelder, Helmuth Trischler, and Henning Wagenbreth, eds., Anthropozän – 30 Meilensteine auf dem Weg in ein neues Erdzeitalter. Eine Comic-Anthologie (Munich: Deutsches Museum, 2014).



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Further readings:

• Sources and Literature for the Anthropocene Milestone Comics

Related links:

- Welcome to the Anthropocene. The Earth in Our Hands. Special exhibition at the Deutsches Museum http://www.deutsches-museum.de/en/exhibitions/special-exhibitions/archive/2015/anthropocene/
- Welcome to the Anthropocene. The Earth in Our Hands. Virtual exhibition on the Environment & Society Portal https://www.environmentandsociety.org/node/6354
- Steam Engine (Encyclopædia Britannica) http://www.britannica.com/technology/steam-engine
- Comic-Anthology, Deutsches Museum Website http://www.deutsches-museum.de/sammlungen/entdecken/comics/

Websites linked in this text:

- http://www.marinaporras.com
- http://www.marinaporras.com

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Websites linked in image captions: