

# POWER SURGE

ARE WE FINALLY ON THE BRINK OF A CLEAN REVOLUTION?

1 X 53 HD



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Could one bold, green stroke save our economy *and* the planet? Or will it take many strokes—and can these solutions work in time? NOVA takes a big-picture view in a new hour-long documentary that examines many of the latest innovations in science and technology that could collectively solve the energy problem and save us from climate change.

The film features Richard Branson, billionaire Virgin Atlantic airline mogul; Jim Rogers, the CEO of America's largest electric utility; U.S. Secretary of Energy Steven Chu; Nobel Prize-winner energy expert Dan Kammen; biofuels innovator Jay Keasling; renowned environmental biologist Steven Pacala; Whole Earth Catalog creator and legendary environmentalist Stewart Brand, and many more. From unique solar cities in China to a carbon capture-and-storage facility in the Sahara desert and the latest developments in biofuels, NOVA travels the globe with unprecedented access to the surprising technologies that could turn back the clock on climate change.

### 1) *Solar and Renewable Energies*

NOVA showcases massive wind and solar installations in the U.S. and checks in with China's growing number of "solar millionaires," entrepreneurs who are dominating the world's production of solar cells and lowering the cost of solar. NOVA is also granted access to a Chinese community that is 88 percent solar reliant through batteries that an enormous array of solar panels charges during the day.

### 2) *Nuclear Power*

The future of nuclear energy is unclear, and the debate as to whether nuclear can be made safe is raging again in the wake of the recent events in Japan. NOVA is given an exclusive tour of the first factory in the world to build *modular* nuclear power plants in China—a new system purported to be safer, more cost-effective, and more efficient than ever before.

### 3) *Cleaning up Coal and Fossil Fuels*

Viewers get a behind-the-scenes look at a man-made carbon collector, which can collect CO<sub>2</sub> from the air at a rate 1000 times faster than that of a tree. NOVA also gains unprecedented access to the Algerian National Oil Company, which operates one of only four facilities in the world where carbon dioxide is pressurized, pumped, and trapped underground in a carbon capture-and-storage facility.

### 4) *Efficiency*

The cheapest, easiest, and most immediate way to address climate change is through efficiency measures, urging scientists and adventurous entrepreneurs to find solutions that will create the next generation of energy technology and bring us closer than ever to the brink of a clean-energy revolution.

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# NOVA

## credits

*Producer:* Doug Hamilton and Alexis Bloom

*Writer:* Doug Hamilton

*Executive Producer:* Paula S. Apsell

*Photo Credit:* Courtesy of WGBH



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