



VIKING



VOYAGER



APOLLO



CASSINI

POWER TO EXPLORE



CURIOSITY



DRAGONFLY



MARS RECONNAISSANCE ORBITER

1
00:00:11,390 --> 00:00:08,410

power

2
00:00:16,310 --> 00:00:11,400

we all rely on it

3
00:00:22,730 --> 00:00:18,890

and in space exploration we definitely

4
00:00:25,250 --> 00:00:22,740

need it yes solar power is one option

5
00:00:27,769 --> 00:00:25,260

but what if you want to travel really

6
00:00:29,570 --> 00:00:27,779

far from the Sun or to a crater

7
00:00:31,730 --> 00:00:29,580

permanent Darkness

8
00:00:35,330 --> 00:00:31,740

or to a Dusty planet

9
00:00:37,310 --> 00:00:35,340

that's why NASA uses these these nuclear

10
00:00:39,889 --> 00:00:37,320

batteries are called radioisotope Power

11
00:00:41,690 --> 00:00:39,899

Systems they provide continuous power to

12
00:00:43,190 --> 00:00:41,700

spacecraft and to the scientific

13
00:00:45,830 --> 00:00:43,200

instruments on board

14

00:00:47,630 --> 00:00:45,840

Voyager for example has traveled Beyond

15

00:00:50,090 --> 00:00:47,640

the Edge of our solar system and has

16

00:00:53,090 --> 00:00:50,100

been continuously powered by RPS for

17

00:00:54,950 --> 00:00:53,100

over 45 years imagine having a phone

18

00:00:58,970 --> 00:00:54,960

that you didn't have to charge for 45

19

00:01:01,490 --> 00:00:58,980

years better yet a spacecraft imagine

20

00:01:03,830 --> 00:01:01,500

the places you could go imagine the

21

00:01:06,649 --> 00:01:03,840

destinations you could explore if you're

22

00:01:08,810 --> 00:01:06,659

a K-12 student in the United States your

23

00:01:11,570 --> 00:01:08,820

challenge is to dream up a new RPS

24

00:01:15,789 --> 00:01:11,580

powered space mission and tell NASA all

25

00:01:19,130 --> 00:01:15,799

about it in 200 words or less go to

