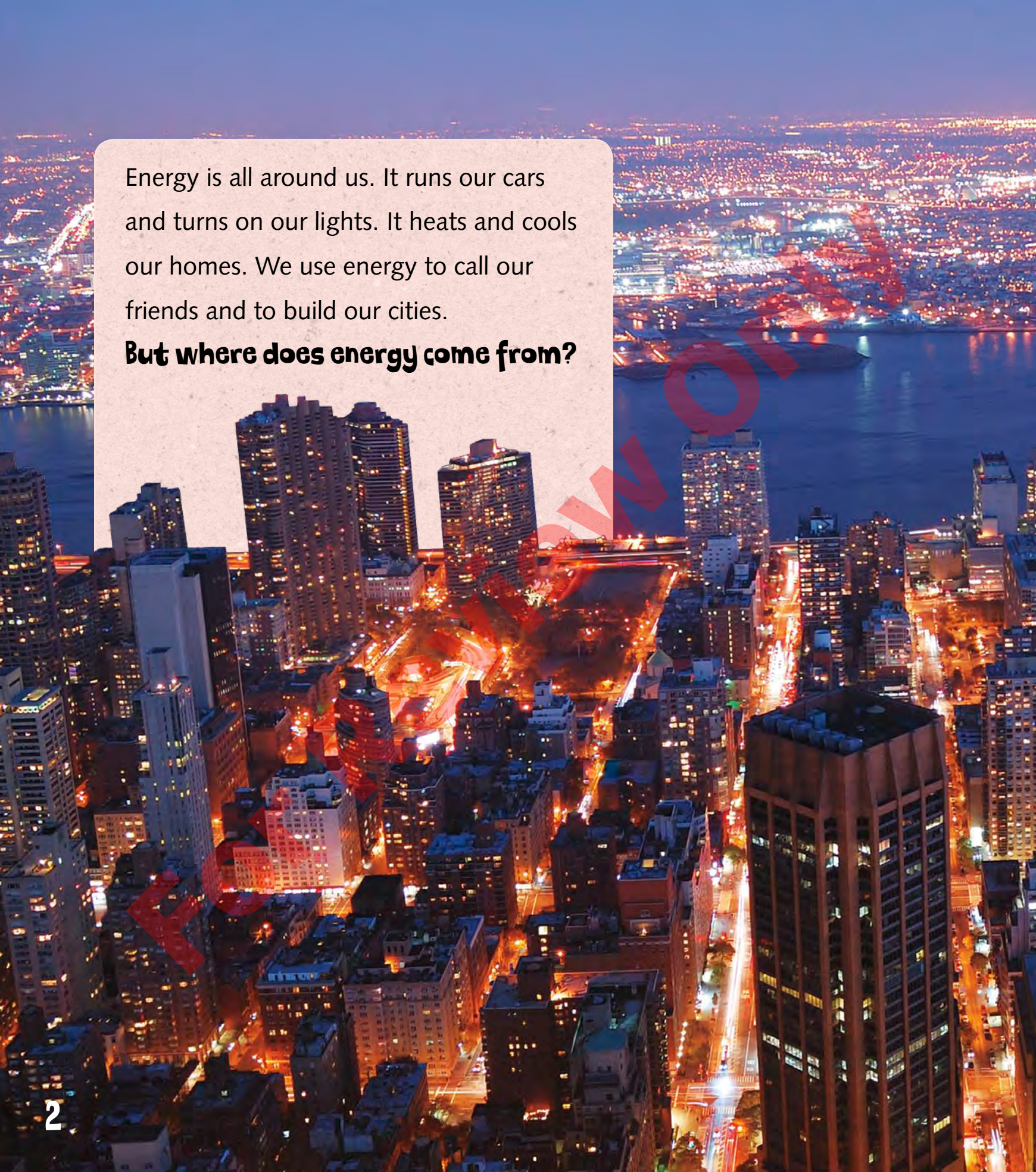


SUN POWER

A Book
about
**Renewable
Energy**

by Esther Porter



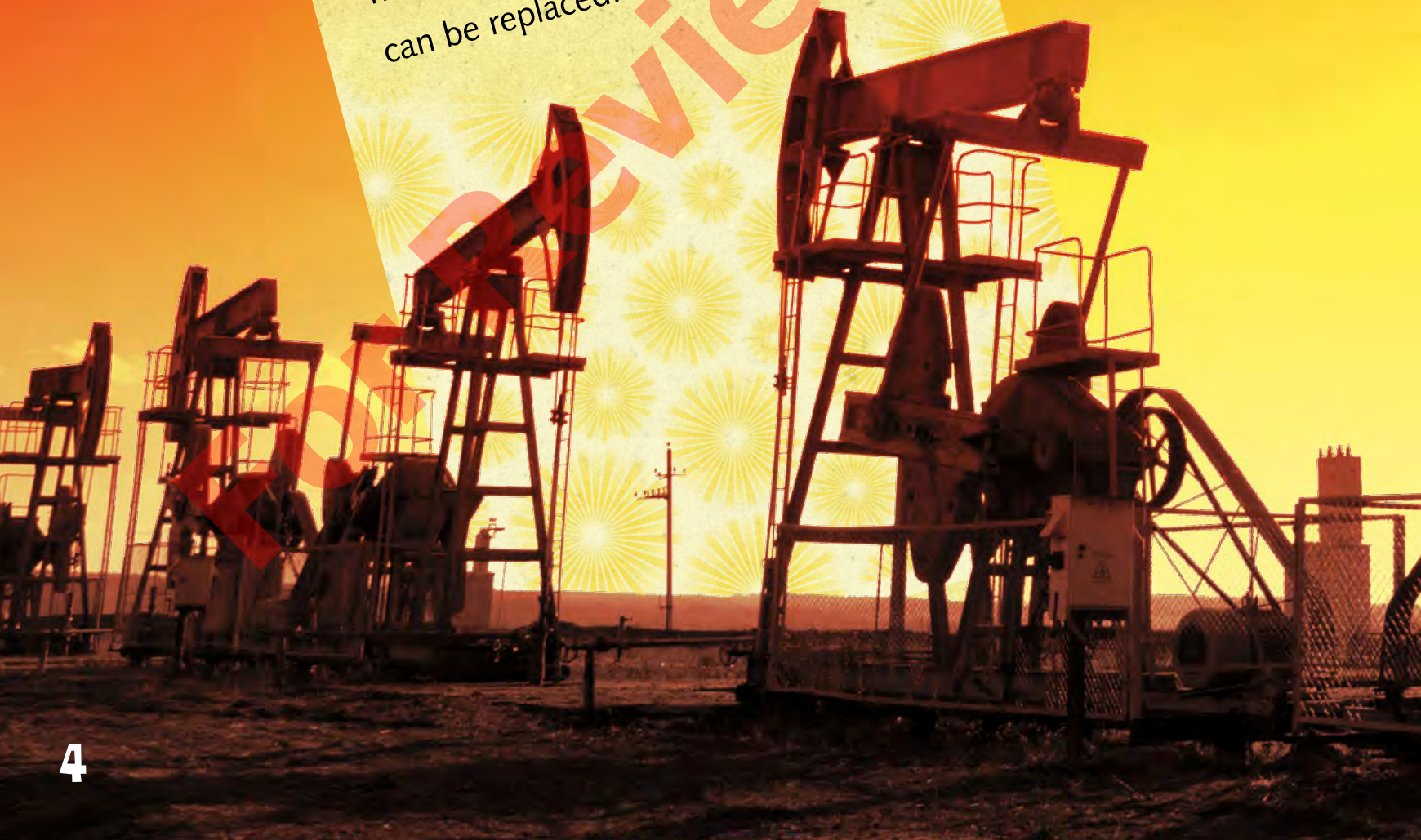
An aerial night photograph of New York City, showing a dense grid of illuminated skyscrapers and buildings. Central Park is visible in the center, appearing as a dark, tree-filled area. The Hudson River is on the right, with city lights reflecting on its surface. A large, faint red watermark is visible across the center of the image.

Energy is all around us. It runs our cars
and turns on our lights. It heats and cools
our homes. We use energy to call our
friends and to build our cities.

But where does energy come from?



Energy comes from natural resources.
Energy is either renewable or
nonrenewable. Renewable energy
can be replaced. It does not run out.



Fossil fuels have given us energy for many years. But they are not perfect.
They are nonrenewable.



Deep underground, heat, pressure, and time turn fossils into fuel. Coal, natural gas, and oil are fossil fuels. This kind of energy takes a long time to form, and we use it up quickly. **Using fossil fuels creates harmful pollution.**



Make a Mini Wind Turbine!

Want to see how a wind turbine works? Make a pinwheel!
Like wind turbines, pinwheels turn when air blows past them.
Here's how to make your own:

You will need:

paper
pencil with an eraser on the end
crayons, markers, or colored pencils
scissors
pushpin

Instructions:

1. Use the pencil to trace the pattern shown on page 29 onto a piece of paper.
2. Color the square however you like.
3. Use the scissors to cut out the square.
4. Cut the four dashed lines. Do not cut all the way to the center!
5. Punch holes in the small circles with the pushpin.
6. Curl up the corners of the squares so the corner holes line up with the center hole.



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- 7.** Push the pushpin through all holes and into the side of the eraser.
- 8.** Hold the pencil and blow straight into the center of your pinwheel.

