

Challenge Card

SDG 7 - Affordable and Clean Energy

Outdoor



Sustainable Development Goal 7
Affordable and Clean Energy

Key SPICES Growth



Social



Physical



Intellectual



Character



Emotional



Spiritual

Likely Scout Method Element/s



Community Involvement



Learning by Doing



Nature and the Outdoors



Patrol System



Personal Progression



Promise and Law



Symbolic Framework



Youth Leading, Adults Supporting

Best For



Joey Scouts



Cub Scouts



Scouts



Venturer Scouts



Rover Scouts

Plan>

1. Get permission to have a fire at your Scout Hall using a permanent or portable fire pit as appropriate.

Alternatively, arrange to complete this activity on an overnight camp.

Consider if the weather and local fire restrictions are suitable for this activity.

2. Borrow a saw and firelighting equipment.

3. Have a bucket of water available to put out your fire or in case of emergency.

Do>

1. Gather fallen wood for your campfire. Try to only gather fallen wood and avoid logs that may be home to native animals.

2. Saw through pieces of various sizes and count the number of rings in each piece. Note how thick the pieces are, and how many rings they have – each year represents a year of growth.

3. As you add these bits of wood to the fire, check how long it takes them to burn.

Review>

1. Is this wood a sustainable source of energy? 'No' may be the first answer, because the pieces of wood are used up. However, the trees in the wood are still growing.

2. You didn't damage the environment while collecting it, so the source will renew naturally. Next year there will be more fallen wood in the forest.

3. How does this relate this to the burning of gas and oil to make electricity. It takes millions of years to make more oil and gas. We take more out of the environment than it can renew. Other sources like wind, solar, and hydroelectric are sustainable because they don't use up or destroy anything in the natural environment.

4. For people in some countries wood is their only source of energy. What might happen when their supply of wood is used up?

5. What did you learn?