```
<!DOCTYPE html>
<html lang="en">
<head>
<meta charset="UTF-8">
<meta name="viewport" content="width=device-width, initial-scale=1.0">
<title>Energy Facts & Misconceptions</title>
<style>
 /* General Styles */
 body {
   font-family: 'Verdana', sans-serif;
   margin: 0;
   padding: 0;
   background-color: #c1d7b0;
   color: #333;
   text-align: center;
 }

 /* Header */
 header {
   padding: 60px 20px 30px 20px;
   background-color: #a3c48b;
   color: #fff;
 }
 h1 {
   font-size: 2.5rem;
   margin-bottom: 10px;
   animation: fadeIn 2s ease forwards;
 }

 /* Fade-in animation */
 @keyframes fadeIn {
   from { opacity: 0; transform: translateY(-20px); }
   to { opacity: 1; transform: translateY(0); }
 }

 /* Navigation Bar */
 nav {
   display: flex;
   justify-content: center;
   gap: 15px;
   flex-wrap: wrap;
   background-color: #9bbc7a;
   padding: 12px 0;
   position: sticky;
```

```
  top: 0;
  z-index: 100;
}
nav a {
  text-decoration: none;
  color: #fff;
  font-weight: bold;
  padding: 6px 12px;
  border-radius: 5px;
  transition: 0.3s;
}
nav a:hover {
  background-color: #7db46c;
}

/* Sections */
section {
  max-width: 900px;
  margin: 30px auto;
  padding: 25px;
  background: #fff;
  border-radius: 12px;
  box-shadow: 0 6px 15px rgba(0,0,0,0.1);
}
h2 {
  color: #2c3e50;
  margin-bottom: 20px;
  animation: fadeIn 2s ease forwards;
}

/* Team List & Sources */
.team-members ul, .sources ul {
  list-style: square;
  padding-left: 20px;
  text-align: left;
  display: inline-block;
}

/* Entry Cards */
.entry {
  background-color: #e5f0d6;
  padding: 20px;
  margin-bottom: 20px;
  border-radius: 10px;
```

```
  transition: transform 0.3s, box-shadow 0.3s;
 }
 .entry:hover {
  transform: translateY(-5px);
  box-shadow: 0 10px 20px rgba(0,0,0,0.2);
 }
 .entry h3 { margin-top: 0; }
 .entry p { margin: 8px 0; }

 /* Buttons */
 a.download-btn, button {
  background-color: #7db46c;
  color: #fff;
  padding: 12px 22px;
  border-radius: 8px;
  text-decoration: none;
  display: inline-block;
  border: none;
  cursor: pointer;
  transition: 0.3s;
 }
 a.download-btn:hover, button:hover {
  background-color: #5e944e;
 }

 /* Video iframe */
 iframe {
  width: 100%;
  height: 350px;
  border: none;
  margin-top: 10px;
  border-radius: 8px;
 }

 /* Responsive */
 @media (max-width: 768px) {
  header { padding: 50px 10px 20px 10px; }
  nav { gap: 10px; }
  .entry { padding: 15px; }
  iframe { height: 250px; }
 }
</style>
</head>
<body>
```

```
<header>
  <h1>Energy Facts & Misconceptions</h1>
  <p>Welcome to our STEM project website!</p>
</header>

<nav>
  <a href="#team">Team</a>
  <a href="#entries">Entries</a>
  <a href="#reflection">Reflection</a>
  <a href="#video">Video</a>
  <a href="#download">Download</a>
  <a href="#sources">Sources</a>
</nav>

<section id="team">
  <h2>Group 1 Members</h2>
  <ul>
    <li>PAEZ, KIAN ZACHARY GRANDE (LEADER)</li>
    <li>PATRICIO, YONI BIELITH SAN JOSE</li>
    <li>EDANG, CHRIZZIA ANN DIOSANA</li>
    <li>BROÑOSA, EDRIAN ESPAÑOLA</li>
    <li>ALDABA, NIKKO JOFFERSON SAAD</li>
    <li>COFREROS, CHRISTIAN RICH AGUILAR</li>
    <li>LABATIGAN, KALEAH JAZZELLE GALAN</li>
    <li>PANCRUDO, NICOLE FIRMEZA</li>
    <li>PEDROSO JR., BONIFACIO CALISTON</li>
  </ul>
</section>

<section id="entries">
  <h2>Energy Entries</h2>

  <!-- Solar Energy -->
  <div class="entry">
    <h3>Solar Energy</h3>
    <p><strong>Statement:</strong> Using tilted solar panels can maximize sunlight absorption
and energy production even without tilting it.</p>
    <p><strong>Logical Proposition:</strong> If the panels are tilted, it can maximize solar
energy production.</p>
    <p><strong>P and Q:</strong> P = panels are tilted, Q = maximize energy production</p>
    <p><strong>Truth Value:</strong> True</p>
```

Scientific Explanation: Solar panels convert sunlight into electricity through photovoltaic cells. Tilting increases efficiency by aligning with the sun’s path. Flat panels get optimal light for shorter periods.

<!-- Wind Energy -->

<h3>Wind Energy</h3>
Statement: Wind turbines can still make electricity even if there is no wind.
Logical Proposition: If there is no wind, then the turbine can still produce electricity.
P and Q: P = there is no wind, Q = turbine produces electricity
Truth Value: False
Scientific Explanation: Wind turbines rely on air movement to turn blades. Without wind, blades won’t move and no electricity is produced.

<!-- Hydropower Energy -->

<h3>Hydropower Energy</h3>
Statement: Hydroelectric power converts flowing water energy into electricity.
Logical Proposition: If there is flowing water, then hydroelectric power can be generated.
P and Q: P = there is flowing water, Q = hydroelectric power is generated
Truth Value: True
Scientific Explanation: Hydropower plants use kinetic energy of moving water to spin turbines connected to generators. The water cycle constantly renews the water supply, making hydroelectricity renewable.

<!-- Geothermal Energy -->

<h3>Geothermal Energy</h3>
Statement: Geothermal energy can effectively be used to heat and cool buildings by using the stable temperature of the Earth's subsurface.
Logical Proposition: Geothermal energy is effective for heating and cooling buildings if and only if the subsurface temperature is stable.
P and Q: P = geothermal energy is effective for heating and cooling buildings, Q = subsurface earth temperature is stable
Truth Value: True

Scientific Explanation: Geothermal systems use stable underground temperatures. Heat pumps transfer heat to the ground in summer and bring heat up in winter, making heating and cooling efficient year-round.

<!-- Nuclear Energy -->

<h3>Nuclear Energy</h3>
Statement: Nuclear energy is the cleanest energy source because it produces almost no greenhouse gas emissions.
Logical Proposition: If electricity is generated by nuclear fission, then it is one of the cleanest energy sources.
P and Q: P = electricity is generated by nuclear fission, Q = one of the cleanest energy sources
Truth Value: True
Scientific Explanation: Nuclear fission generates electricity without burning fossil fuels, so it produces almost no air pollution or greenhouse gases. The main concern is radioactive waste management.

<!-- Biomass Energy -->

<h3>Biomass Energy</h3>
Statement: Burning biomass does not release carbon dioxide because it is a natural fuel.
Logical Proposition: If a fuel is natural, then burning it does not release carbon dioxide.
P and Q: P = fuel is natural, Q = burning releases carbon dioxide
Truth Value: False
Scientific Explanation: Biomass such as wood and crop waste releases CO2 when burned. Plants can regrow and reabsorb some CO2, but it is not carbon-free.

<!-- Tidal Energy -->

<h3>Tidal Energy</h3>
Statement: Tidal energy can generate electricity at any time, regardless of the movement of tides.
Logical Proposition: If tidal energy is used, then electricity can be generated anytime.
P and Q: P = tidal energy is used, Q = electricity can be generated anytime
Truth Value: False

```
    <p><strong>Scientific Explanation:</strong> Tidal power comes from ocean rise and fall caused by the moon and sun. Electricity is generated only when water moves in or out.</p>
  </div>

  <!-- Biofuels -->
  <div class="entry">
    <h3>Biofuels</h3>
    <p><strong>Statement:</strong> Using biofuels does not release greenhouse gases, so it is completely environmentally friendly.</p>
    <p><strong>Logical Proposition:</strong> If biofuels are used, then no greenhouse gases are released.</p>
    <p><strong>P and Q:</strong> P = biofuels are used, Q = greenhouse gases are released</p>
    <p><strong>Truth Value:</strong> False</p>
    <p><strong>Scientific Explanation:</strong> Biofuels like ethanol and biodiesel release CO2 when burned. The carbon comes from plants that recently absorbed CO2, so it’s less harmful than fossil fuels but not zero emissions.</p>
  </div>

  <!-- Fossil Fuels -->
  <div class="entry">
    <h3>Fossil Fuels</h3>
    <p><strong>Statement:</strong> The emissions of fossil fuels are much cleaner than other energy sources.</p>
    <p><strong>Logical Proposition:</strong> If fossil fuels are burned, then emissions are clean for the environment.</p>
    <p><strong>P and Q:</strong> P = fossil fuels are burned, Q = emissions are clean for the environment</p>
    <p><strong>Truth Value:</strong> False</p>
    <p><strong>Scientific Explanation:</strong> Burning coal, oil, and gas releases CO2 that contributes to global warming. Fossil fuels are non-renewable and polluting.</p>
  </div>

</section>

<section id="reflection">
  <h2>Group Reflection</h2>
  <p>We learned that many common beliefs about energy are misconceptions. This project taught us how logic and science work together to find the truth, and emphasized the importance of renewable energy and the risks of fossil fuels.</p>
</section>

<section id="video">
  <h2>Video Presentation</h2>
```

```
  <iframe src="YOUR_VIDEO_EMBED_URL_HERE" allowfullscreen></iframe>
</section>

<section id="download">
  <h2>Download Full Compilation</h2>
  <a href="Section_Group5_Compilation.pdf" class="download-btn" download>Download
PDF</a>
</section>

<section id="sources">
  <h2>Sources</h2>
  <ul>
    <li>supremesolarpower.com</li>
    <li>energy.gov</li>
    <li>solarnplus.com</li>
    <li>energysage.com</li>
    <li>energy.gov/wind-turbines</li>
    <li>energy.gov/hydropower</li>
    <li>energy.gov/geothermal</li>
    <li>world-nuclear.org</li>
    <li>eia.gov/biomass</li>
    <li>noaa.gov/tides</li>
    <li>energy.gov/biofuels</li>
    <li>clientearth.org</li>
    <li>un.org</li>
  </ul>
</section>

<footer>
  <p>© 2025 Energy Facts & Misconceptions Hub | Group 1</p>
</footer>

</body>
</html>
```