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| **CORNELL NOTES**  **MAIN IDEAS\**  **QUESTIONS** | **UNIT A: CHAPTER 2 - ENERGY**  **NOTES:** |
| Renewable resource  [https://sp.yimg.com/xj/th?id=OIP.M33c7d99a7bff237733acab0ba59b2ed4H0&pid=15.1&P=0&w=245&h=176](https://images.search.yahoo.com/images/view;_ylt=AwrB8pIYfydWHwoA1g6JzbkF;_ylu=X3oDMTIycGNscnBjBHNlYwNzcgRzbGsDaW1nBG9pZAM3ZmZjNzA0OTRlZTc1ZDg0OWZiOWM1MjU1Y2MzOTdjNgRncG9zAzEEaXQDYmluZw--?.origin=&back=https://images.search.yahoo.com/search/images?p=renewable+resources&fr=ie8&fr2=piv-web&tab=organic&ri=1&w=600&h=429&imgurl=2.bp.blogspot.com/-EE_dexVfQTc/T8mdMZyUPzI/AAAAAAAAAio/IKnZz4w4gvY/s1600/renewable-energy-resources.jpg&rurl=http://alternativeenergydevelopment.blogspot.com/2012/06/important-renewable-sources-of-energy.html&size=38.4KB&name=Alternative+Energy+Development:+Important+%3cb%3eRenewable%3c/b%3e+Sources+of+Energy&p=renewable+resources&oid=7ffc70494ee75d849fb9c5255cc397c6&fr2=piv-web&fr=ie8&tt=Alternative+Energy+Development:+Important+%3cb%3eRenewable%3c/b%3e+Sources+of+Energy&b=0&ni=21&no=1&ts=&tab=organic&sigr=133oagg7i&sigb=137499888&sigi=137fkcifi&sigt=12ce2nh00&sign=12ce2nh00&.crumb=NG6d7eBfq.H&fr=ie8&fr2=piv-web) | A natural resource that can be replaced in nature at about the same rate that it is being used. |
| Non-renewable resource  [https://sp.yimg.com/xj/th?id=OIP.M59dcd009846636d4b667b44ebd69c19aH0&pid=15.1&P=0&w=300&h=300](https://images.search.yahoo.com/images/view;_ylt=AwrB8pxifydWrRYACE.JzbkF;_ylu=X3oDMTIydjNqOGZzBHNlYwNzcgRzbGsDaW1nBG9pZANiNzQ0MTFmOWQwOTViODZjNzZiN2U4ZTZmZjgyODA3NgRncG9zAzQEaXQDYmluZw--?.origin=&back=https://images.search.yahoo.com/search/images?p=non+renewable+resources&n=60&ei=UTF-8&fr=ie8&fr2=sb-top-images.search.yahoo.com&tab=organic&ri=4&w=1024&h=1024&imgurl=cdn.thinglink.me/api/image/394487487189221376/1024/10/scaletowidth#tl-394487487189221376;626328886&rurl=http://education.fcps.org/essl_lessons/nonrenew_additional&size=168.4KB&name=<b>Non-Renewable+Resources</b>+Additional+Research+|+ESSL+Lessons&p=non+renewable+resources&oid=b74411f9d095b86c76b7e8e6ff828076&fr2=sb-top-images.search.yahoo.com&fr=ie8&tt=<b>Non-Renewable+Resources</b>+Additional+Research+|+ESSL+Lessons&b=0&ni=21&no=4&ts=&tab=organic&sigr=11qb6ur8l&sigb=14gh9kq0k&sigi=132kqtpp6&sigt=121s2qqui&sign=121s2qqui&.crumb=NG6d7eBfq.H&fr=ie8&fr2=sb-top-images.search.yahoo.com) | A natural resource that can’t be replaced in nature at about the same rate that it is being used. |
| Fossil fuel  [https://sp.yimg.com/xj/th?id=OIP.Mb465dd0b5c0784a72c8433695ddcfacfH0&pid=15.1&P=0&w=269&h=180](https://images.search.yahoo.com/images/view;_ylt=AwrB8pxifydWrRYAD0.JzbkF;_ylu=X3oDMTIzbTBqYmw2BHNlYwNzcgRzbGsDaW1nBG9pZANkMGViMmMzZTBmMjgzZWExNjM3NmYxMzZmMDYwZTc0YQRncG9zAzExBGl0A2Jpbmc-?.origin=&back=https://images.search.yahoo.com/search/images?p=non+renewable+resources&n=60&ei=UTF-8&fr=ie8&fr2=sb-top-images.search.yahoo.com&tab=organic&ri=11&w=960&h=640&imgurl=tammi.tamu.edu/photos/Coal%20%20Stacks.JPG&rurl=http://www.pic2fly.com/Non+Renewable+Resource+Coal.html&size=150.0KB&name=gif+%3cb%3erenewable%3c/b%3e+and+%3cb%3enon+renewable+resources%3c/b%3e+oscar+education+http+...&p=non+renewable+resources&oid=d0eb2c3e0f283ea16376f136f060e74a&fr2=sb-top-images.search.yahoo.com&fr=ie8&tt=gif+%3cb%3erenewable%3c/b%3e+and+%3cb%3enon+renewable+resources%3c/b%3e+oscar+education+http+...&b=0&ni=21&no=11&ts=&tab=organic&sigr=11nlbctfn&sigb=14hl5p05u&sigi=11alvkafd&sigt=12ge3tt25&sign=12ge3tt25&.crumb=NG6d7eBfq.H&fr=ie8&fr2=sb-top-images.search.yahoo.com) | Fuels formed from the remains of prehistoric organisms that are burned for energy. |
| Hydroelectric  [https://sp.yimg.com/xj/th?id=OIP.Mb83420eb578ec9e6cf746cf444087b66H0&pid=15.1&P=0&w=269&h=155](https://images.search.yahoo.com/images/view;_ylt=AwrB8qCsgSdWrSAASPuJzbkF;_ylu=X3oDMTIzdTFuMjZrBHNlYwNzcgRzbGsDaW1nBG9pZAM4NzM0M2Q1OWIyZDU2YzZhMjc5OTYzNjU4NjcwMWE1NwRncG9zAzI0BGl0A2Jpbmc-?.origin=&back=https://images.search.yahoo.com/search/images?p=hydroelectric+resources&n=60&ei=UTF-8&fr=ie8&fr2=sb-top-images.search.yahoo.com&tab=organic&ri=24&w=500&h=287&imgurl=www.xcelenergy.com/staticfiles/xe/images/ElecGen762_hydro.gif&rurl=http://www.xcelenergy.com/Environment/Renewable_Energy/Hydro/How_Hydro_Power_Works&size=61.2KB&name=%3cb%3eHydro%3c/b%3e+Power+%3cb%3eResources%3c/b%3e&p=hydroelectric+resources&oid=87343d59b2d56c6a2799636586701a57&fr2=sb-top-images.search.yahoo.com&fr=ie8&tt=%3cb%3eHydro%3c/b%3e+Power+%3cb%3eResources%3c/b%3e&b=0&ni=84&no=24&ts=&tab=organic&sigr=12i522m82&sigb=14hn8dpgd&sigi=11t9cjjhm&sigt=113oap5fj&sign=113oap5fj&.crumb=NG6d7eBfq.H&fr=ie8&fr2=sb-top-images.search.yahoo.com) | Energy that is generated by the conversion of the energy of moving water. |
| Solar  [https://sp.yimg.com/xj/th?id=OIP.M0cb92b28ee1a05447d04ed7290b531a6H0&pid=15.1&P=0&w=276&h=185](https://images.search.yahoo.com/images/view;_ylt=AwrB8o4ugidWKHYAqRiJzbkF;_ylu=X3oDMTIzcmh2N2N1BHNlYwNzcgRzbGsDaW1nBG9pZANjNzBkZmU3YWU3NWQ2NzM1NDY5YjVmZDUwYWIyZDA0MQRncG9zAzExBGl0A2Jpbmc-?.origin=&back=https://images.search.yahoo.com/search/images?p=solarenergy&n=60&ei=UTF-8&fr=ie8&fr2=sb-top-images.search.yahoo.com&tab=organic&ri=11&w=720&h=480&imgurl=www.hope-project.org/wp-content/uploads/2013/08/solar-energy-panels-720.jpg&rurl=http://www.hope-project.org/energy/advantages-and-disadvantages-of-solar-panels/&size=105.9KB&name=%3cb%3esolar-energy%3c/b%3e-panels-720.jpg&p=solar+energy&oid=c70dfe7ae75d6735469b5fd50ab2d041&fr2=sb-top-images.search.yahoo.com&fr=ie8&rw=solar+energy&tt=%3cb%3esolar-energy%3c/b%3e-panels-720.jpg&b=0&ni=21&no=11&ts=&tab=organic&sigr=12g9boqtl&sigb=145lgmkic&sigi=12be32a3m&sigt=112t7thpi&sign=112t7thpi&.crumb=NG6d7eBfq.H&fr=ie8&fr2=sb-top-images.search.yahoo.com) | Radiant [light](https://en.wikipedia.org/wiki/Light) and [heat](https://en.wikipedia.org/wiki/Heat) from the [Sun](https://en.wikipedia.org/wiki/Sun) harnessed using a range of ever-evolving technologies such as [solar heating](https://en.wikipedia.org/wiki/Solar_heating), [photovoltaics](https://en.wikipedia.org/wiki/Photovoltaics), [solar thermal energy](https://en.wikipedia.org/wiki/Solar_thermal_energy), [solar architecture](https://en.wikipedia.org/wiki/Solar_architecture) and [artificial photosynthesis](https://en.wikipedia.org/wiki/Artificial_photosynthesis). |
| Nuclear  [Description Nuclear Power Plant Cattenom.jpg](https://images.search.yahoo.com/images/view;_ylt=AwrBT_xhgydWkG8AlCxXNyoA;_ylu=X3oDMTByMjB0aG5zBGNvbG8DYmYxBHBvcwMxBHZ0aWQDBHNlYwNzYw--?p=nuclear+energy&back=https://search.yahoo.com/search?p=nuclear+energy&ei=UTF-8&no=1&fr=&fr=ie8&h=96&w=127&imgurl=upload.wikimedia.org/wikipedia/commons/4/4e/Nuclear_Power_Plant_Cattenom.jpg&rurl=http://en.wikipedia.org/wiki/File:Nuclear_Power_Plant_Cattenom.jpg&size=692KB&name=Description+Nuclear+Power+Plant+Cattenom.jpg&oid=0ac14ffccf7b411998000000008d262c&tt=Description+Nuclear+Power+Plant+Cattenom.jpg&sigr=122l1cim1&sigi=12ctd62m3&sigb=11p9m1e9o&sign=11ceedtv6&sigt=11ceedtv6) | Nuclear power is the use of sustained nuclear fission to generate heat and electricity. |
| Geothermal  [Concept of Geothermal energy ( Read more about it )](https://images.search.yahoo.com/images/view;_ylt=AwrBT4AWhCdWoKIAsP1XNyoA;_ylu=X3oDMTByMjB0aG5zBGNvbG8DYmYxBHBvcwMxBHZ0aWQDBHNlYwNzYw--?p=geothermal+energy&back=https://search.yahoo.com/search?p=geothermal+energy&ei=UTF-8&no=1&fr=&fr=ie8&h=103&w=142&imgurl=3.bp.blogspot.com/-uULqGBITzWk/Ts2jEzIZ5xI/AAAAAAAADOA/pY1J-s_VkD4/s1600/Energy-geothermal.jpg&rurl=http://www.imposingheadlines.com/2011/11/5-cities-harnessing-breakthrough.html&size=230KB&name=Concept+of+Geothermal+energy+(+Read+more+about+it+)&tt=Concept+of+Geothermal+energy+(+Read+more+about+it+)&sigr=12eo4t4p6&sigi=12uh7b98t&sigb=11spvqcjk&sign=11jpilq55&sigt=11jpilq55) | Thermal energy generated and stored in the Earth. |
| Biomass  http://www.ducksters.com/science/environment/biomass_types.gif | Biomass is [biological material](https://en.wikipedia.org/wiki/Biomaterial) derived from living, or recently living organisms. In the context of biomass as a resource for making energy, it most often refers to plants or plant-based materials which are not used for food or feed. |
| Hydrogen Fuel Cell  http://www.prlog.org/10564156-hydrogen-fuel-cell.jpg | A fuel cell is a device that converts the [chemical energy](https://en.wikipedia.org/wiki/Chemical_energy) from a fuel into electricity through a chemical reaction of positively charged hydrogen ions with oxygen or another [oxidizing agent](https://en.wikipedia.org/wiki/Oxidizing_agent) |
| Conservation  [https://sp.yimg.com/xj/th?id=OIP.M8443aff363a3b178c06aba02d0eae673H0&pid=15.1&P=0&w=192&h=152](https://images.search.yahoo.com/images/view;_ylt=AwrB8qAKhydWyiQA1XOJzbkF;_ylu=X3oDMTIycGprMWMyBHNlYwNzcgRzbGsDaW1nBG9pZAMzNDM3NDYyZDY3NDZkZjUxODIyZWIxODE3OWVkYjNlNARncG9zAzYEaXQDYmluZw--?.origin=&back=https://images.search.yahoo.com/search/images?p=conservation&n=60&ei=UTF-8&fr=ie8&fr2=sb-top-images.search.yahoo.com&tab=organic&ri=6&w=609&h=480&imgurl=lunar.thegamez.net/greentechnology/energy-conservation/energy-conservation-part-of-energy-conservation-and-energy-audit-609x480.jpg&rurl=http://technologygreenenergy.blogspot.com/2012/12/energy-conservation.html&size=25.1KB&name=energy+%3cb%3econservation%3c/b%3e+energy+%3cb%3econservation%3c/b%3e+part+of+energy+%3cb%3econservation%3c/b%3e+...&p=conservation&oid=3437462d6746df51822eb18179edb3e4&fr2=sb-top-images.search.yahoo.com&fr=ie8&tt=energy+%3cb%3econservation%3c/b%3e+energy+%3cb%3econservation%3c/b%3e+part+of+energy+%3cb%3econservation%3c/b%3e+...&b=0&ni=56&no=6&ts=&tab=organic&sigr=12akaje0o&sigb=1453ds0jb&sigi=143p6egi6&sigt=12s82h4ej&sign=12s82h4ej&.crumb=NG6d7eBfq.H&fr=ie8&fr2=sb-top-images.search.yahoo.com) | The official supervision of rivers, lakes, and other natural resources in order to preserve and protect them for future use. |
| Preservation  [https://sp.yimg.com/xj/th?id=OIP.M0640ff649d410ca839267b3f072cfa26o0&pid=15.1&P=0&w=307&h=173](https://images.search.yahoo.com/images/view;_ylt=AwrB8o4WiCdW2XgAAUaJzbkF;_ylu=X3oDMTIyNjVhZnA2BHNlYwNzcgRzbGsDaW1nBG9pZAM1MWFhMmNiNmM3NDM1YmNjMjRjNzIwZmQwYzA1ZDc0YwRncG9zAzIEaXQDYmluZw--?.origin=&back=https://images.search.yahoo.com/search/images?p=preservation&fr=ie8&fr2=piv-web&tab=organic&ri=2&w=474&h=266&imgurl=www.civilwar.org/assets/images/aboutus/land-preservation.jpg&rurl=http://www.civilwar.org/land-preservation/&size=97.7KB&name=Civil+War+Battlefield+%3cb%3ePreservation%3c/b%3e+-+See+How+We+Work+|+Civil+War+Trust&p=preservation&oid=51aa2cb6c7435bcc24c720fd0c05d74c&fr2=piv-web&fr=ie8&tt=Civil+War+Battlefield+%3cb%3ePreservation%3c/b%3e+-+See+How+We+Work+|+Civil+War+Trust&b=0&ni=21&no=2&ts=&tab=organic&sigr=11abmenfi&sigb=1309eedlu&sigi=11svieq39&sigt=12dunpqd2&sign=12dunpqd2&.crumb=NG6d7eBfq.H&fr=ie8&fr2=piv-web) | To keep alive or healthy. |
| SUMMARY |  |