**Lesson 5 – Answer Key**

Renewable energy 101: **How does hydroelectricity work?**

1. H2O
* covers 71% world Surface
* Vital for daily life
* Clean, renewable, reliable source of E
1. How does HE work?
* HE capture moving H2O force from rivers & oceans
* Movement of H2O spins H. turbines
* Generate KE converts E in generator
* E insert power grid
1. Dam structure
* Built on rivers & streams
* Big drop elevation = gravity
* Blocks H2O natural floods
* Force H2O to flow through pipe to generator
* Release H2O to stream on other dam side
1. Dams then & now

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| * Dams in US before 1960s: disrupt ecosystem
 | * Existing dams now tapped for E
* Upgraded to be less harmful: plants, fish & wildlife
* Get E protecting natural environment: win win
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