**Problem statement:**

1. Energy surplus and demand
2. Problems in industries due to the power shortage
3. Lack of traction using batteries in heavy transport and equipment
4. Alternative in Evs for solving limitations due to battery system
5. Energy security and energy mix problem

The cost invested in purchasing for solving the

Time and cost:

Choose the particular industry for the above problem statement

1. Energy

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* Hydrogen:
* Scope:
* Our focus: Mainly on Application of Hydrogen/ How
* Production: How?? – electrolysis, Kun energy? – surplus / off season
* Storage method: compressed, ammonia, metal hydride
* We are focusing on metal hydride especially for industries.
* Application kata? Broad sectors
* Todays focus: Industry application, solving battery issues
* Industry example; energy demand and imbalance supply, energy mix, diseal engines// hydrogen could be a promising alternative. Offgrid sources like hydrogen le replace
* Could also solve technical issues like traction, battery management, can also be economical in long term even though expensive initially. Thus, hydrogen emerges as a promising alternative energy.
* Economical Analysis: Production costs, storage costs, real time application costs comaprision with off grid costs.
* Technical analysis: Diseal sanag compare—yettikai reject, conventional sanga comaprision showing limitation with historical data. How can solve by fuel cell/ Matlab simulation.
* Policies: International level/ National level/ when having global momentum, why should Nepal be late in adapting fuel cells.
* Stakeholders, policy makers should have attentions in researching about the alternative energy now.
* Even though in nascents phases and lots of challenges, in future, we can make hydrogen a promising solutions for lternative energy in Nepal.