Solar Car Meeting 27.04.22

Updates

* Work groups are established
* New Guidelines / Rules have been released
  + Guidelines
  + Stability Regulations
* [Phoenix Contact](https://www.phoenixcontact.com/da-dk/) 🡪 We can receive 200k for components or some cash. They are interested in the sustainability factor of the project. It might be easier to get funding than expected. They have technicians we potentially can use for guidance.

Mangement Update:

* Master budget for donated sums
* Made templates for “fagprojekter” / “subject-project” Need to make for other groups too!
* Need to make a project bank (need to do, doing, done) in one big excel sheet. Each group will also get a teams-folder
* Who is the owner of the teams group? Will it disappear when the user doesn’t exist anymore? **Wiki** is also an option, where we can document without worrying about constant changes being made.

Vehicle Body:

* Brakes 🡪
  + Most components need to be bought
  + The students will review the car and come with a plan as to which products they need.
* Wheels 🡪
  + VW X1 Michelin wheels, 8k per dæk., 15’’
  + Can lead to best fiction coefficient
* Chassis 🡪
  + New rules, can’t fit PWC Pad (crash-doll)
  + XL1 is the leading inspirator
  + Rolling cage
* **Remember**:
  + Passengers (1)
  + Can fit driver
  + Complex system and we need to check up on rules
  + How much space does the battery take up? Do we get the battery as modules?

Lights:

* Group has made an improved version of the lighting and parts are getting ordered.
* They are starting to prepare test-cases, which will be executed in the 3-week period.
* Protocols are in order.
* There are two groups working, and they are both on a good track.
* Currently have halogen-bulb, but if the circuit works, we can replace those with LED’s.

Power Train:

* Fagprojekt groups are in progress
* Someone is working on the solarcells as their BSc Project. **Contact: Andreas(s194044).**

Battery:

* Lithium Balance: contacted but no answer.
* Price estimate: 280k
* Continue to look for new sponsors, look for cheaper alternative

Motor:

* Nothing new

Gear:

* Fagprojekt group
* Peter is in charge, but next meeting we will have an update.
* Speed-pilot
* They are in the process of production

Differential:

* 1:3 is the norm, but we want 1:1.
* Could be incorporated in the gearbox

Shell:

* No channel in the middle 🡪 makes drive train more effective, difference of 15% in efficiency
* Makes car skinnier, same frontal-area
* Save weight in general, but almost same space for solar panels
* No time before June

Rules:

* New change: PWC person needs to be able to fit differently.
* Everyone should skim!
* 7th Oct for approval

Marketing / Communications / PR:

* Get new students, new 3-work courses, Eco-Car project
* Simon for SoMe
* 10-15k for logos from company, ask design & innovation

Event:

* Urgently: A3 Poster “Come with us to Australia”
* Poster for next week!
* Physical Event, pizza, grill to introduce people to the project
* 15 Juni 15.00 – 19.00, project-dating

Extra updates:

* Data Management 🡪 How do we do it easiest, set it up correctly, write a “Read Me” file, describing how to document/hand-in/write.
* Student perspective evaluates that Wiki is useful and teams need to be sorted
* We need a 3-D model of the vehicle. Blackbox in a CAD file (solidworks).
* LaserTube 🡪 can we use them?

Jesper schramm