

PV Systems - Components and Concepts

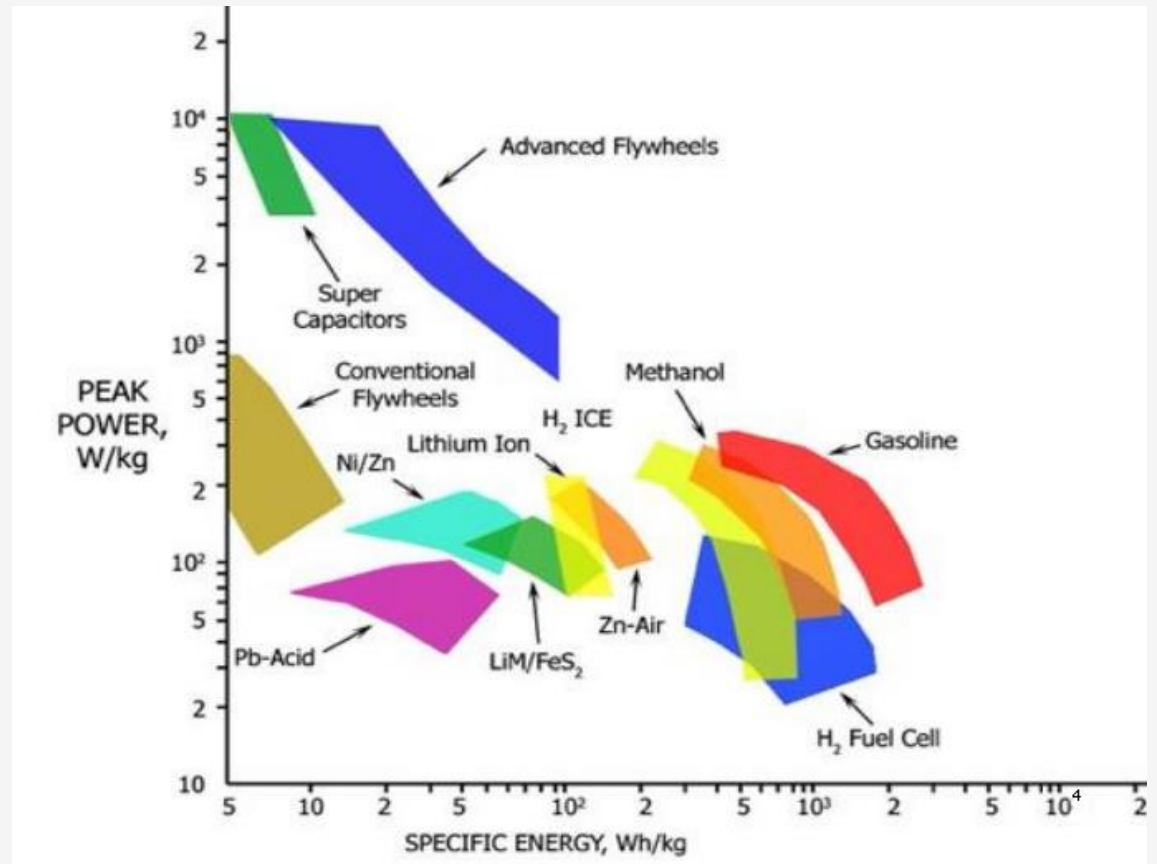
Batteries I - Introduction

Week 7.5.1

Arno Smets, Nishant Narayan



Ragone plot



Types of batteries



Zinc carbon batteries,
Alkaline batteries

Primary



Lead Acid batteries,
Lithium ion batteries,
...

Secondary

Secondary batteries

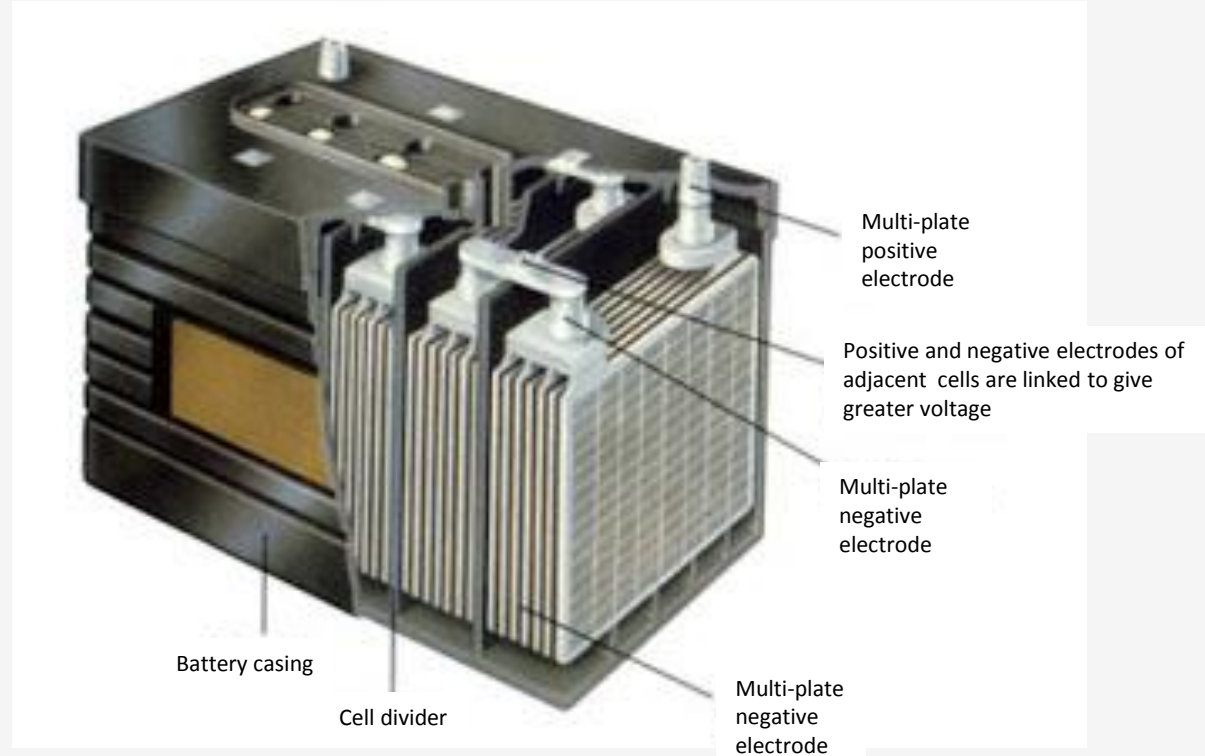
Lead Acid Batteries



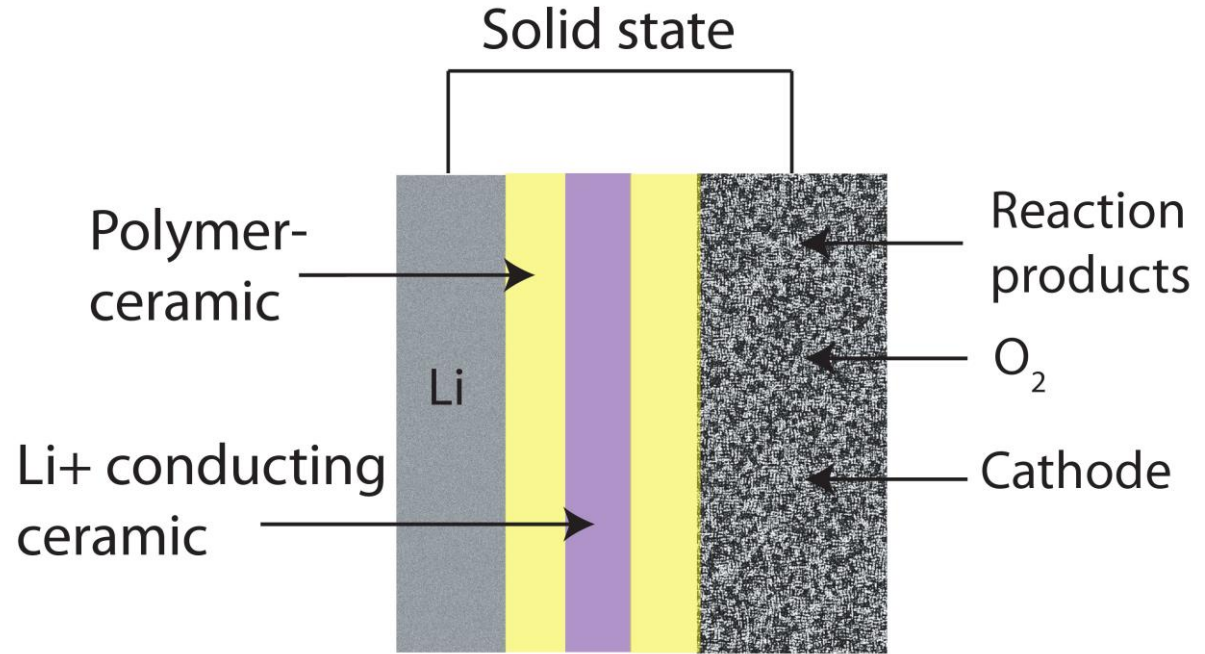
Lead Acid batteries
Lithium ion batteries

...

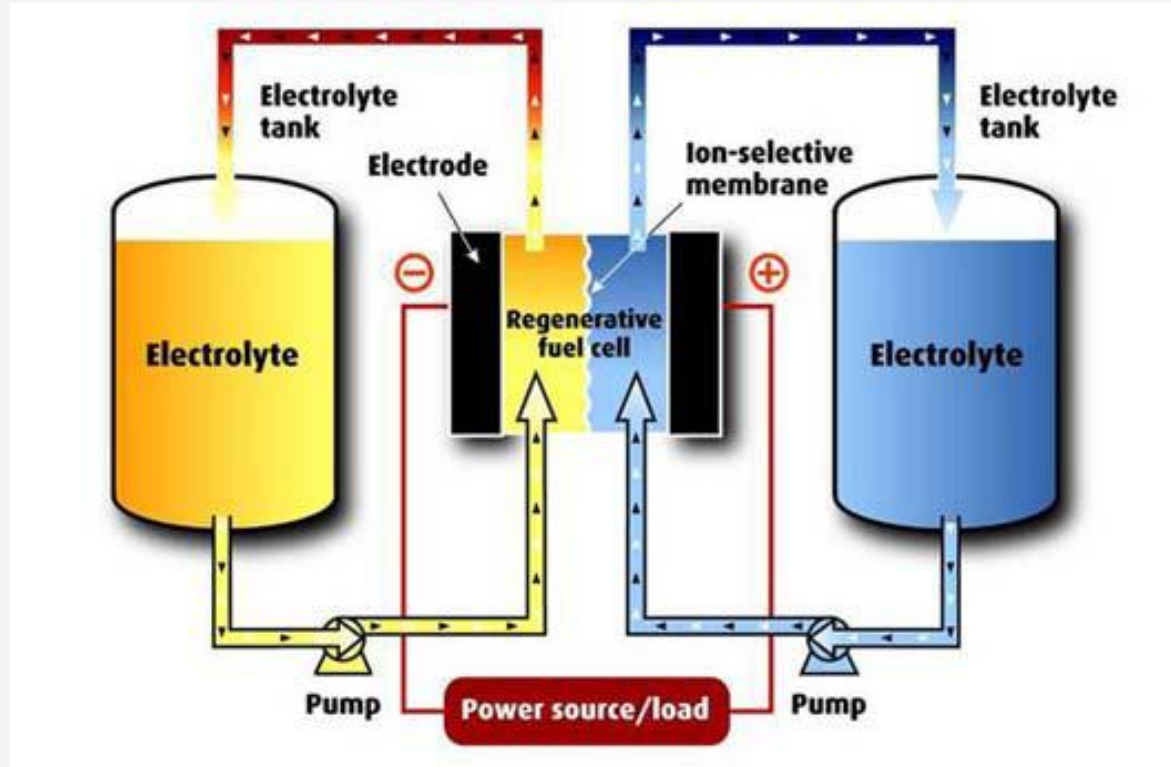
Nickel Metal Hydride and Nickel Cadmium



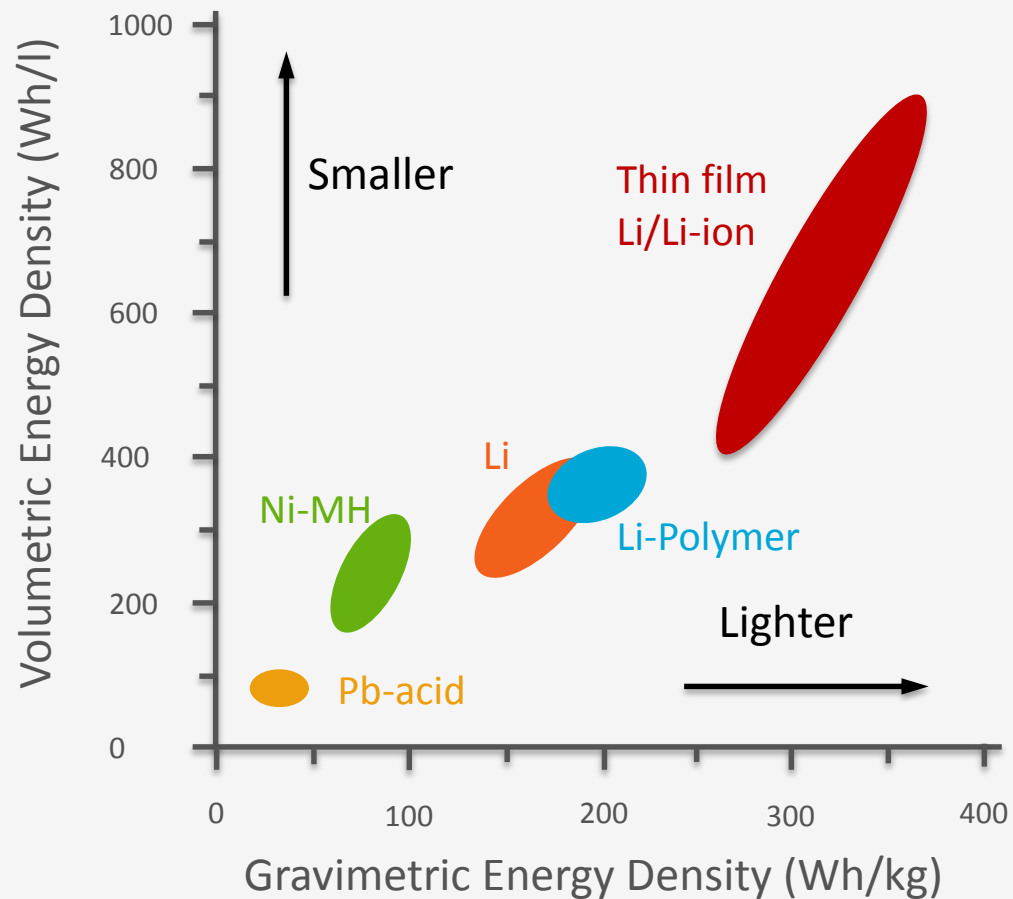
Lithium ion and Lithium ion polymer



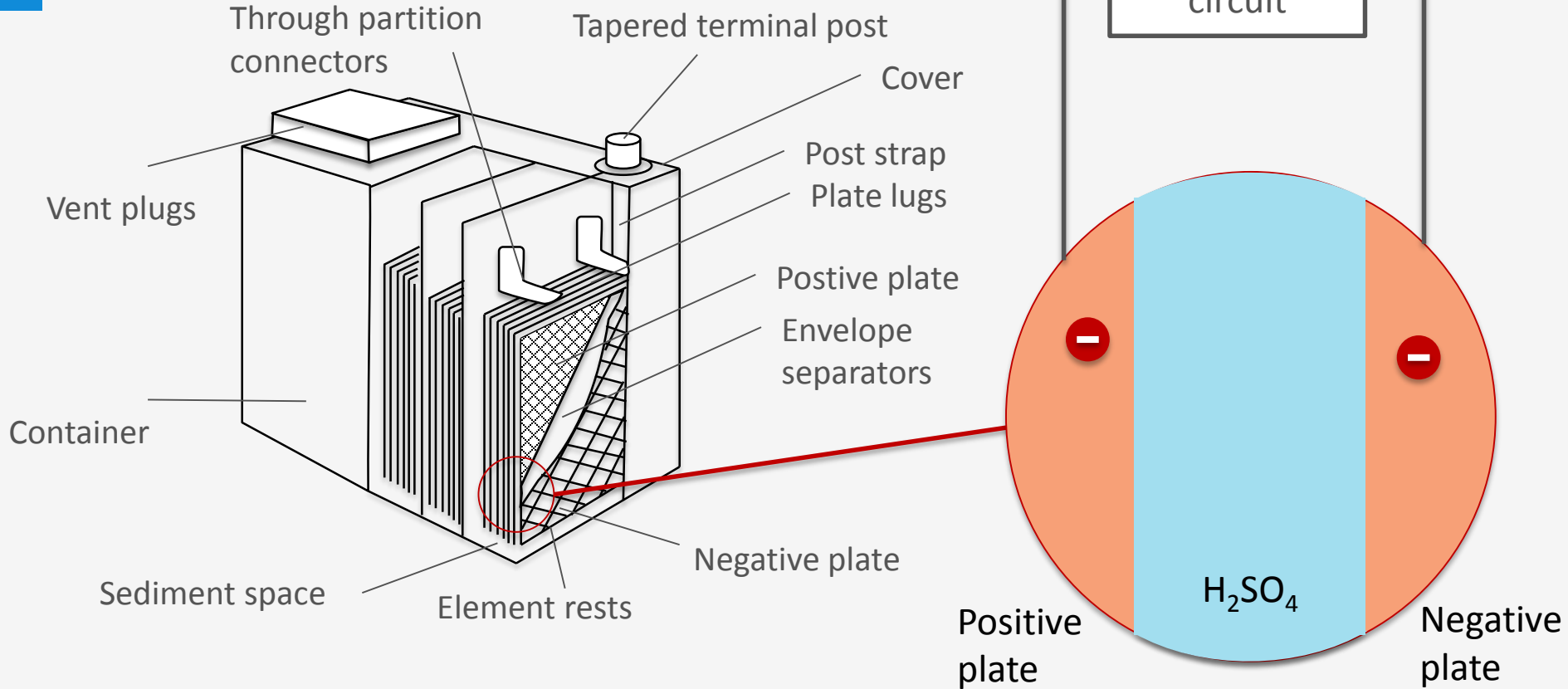
Redox flow



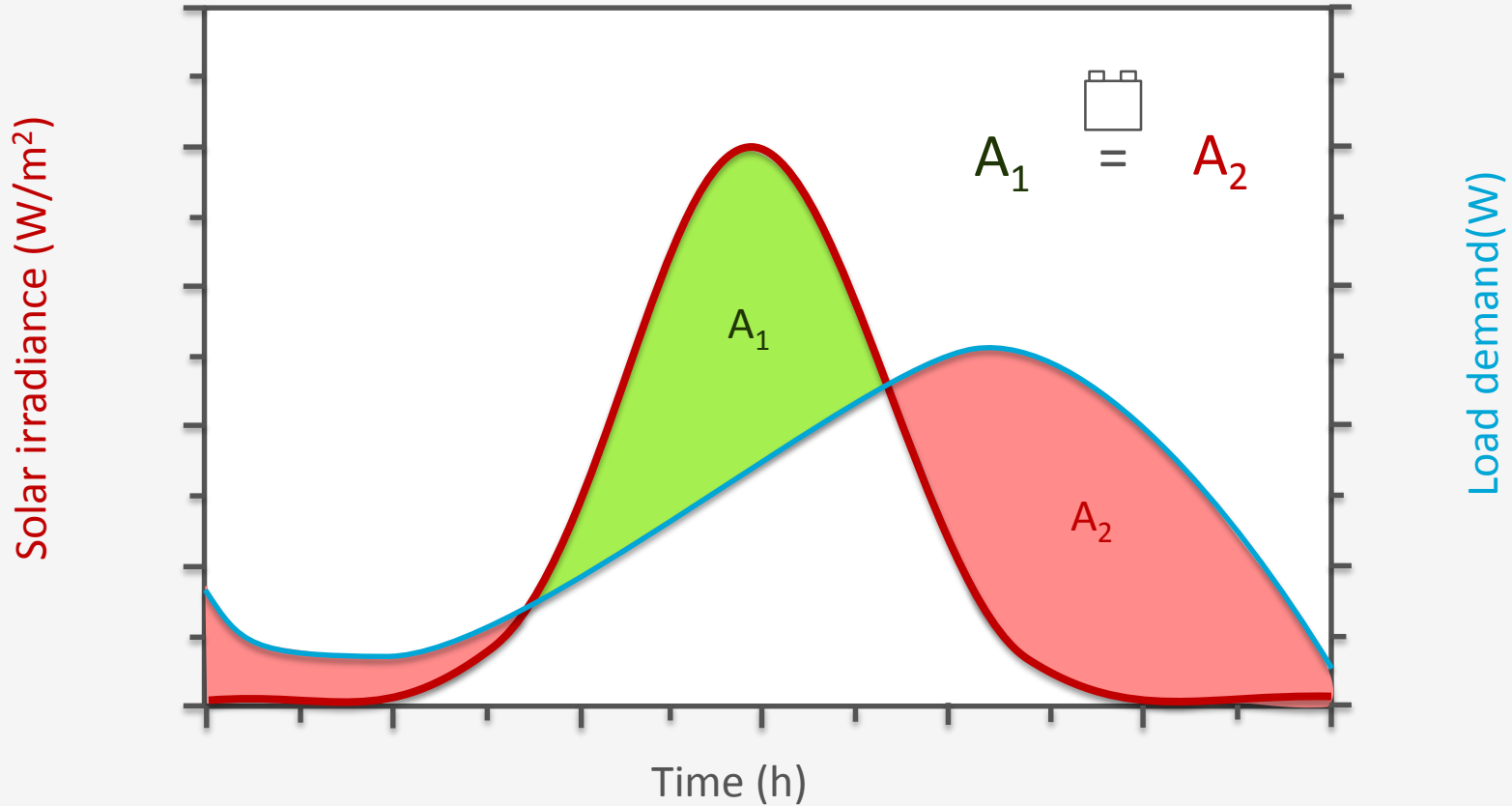
Battery Ragone plot



Lead Acid battery



Solar irradiance and demand profile





Thank you for your attention!