

Assessing Benefits

- R&D Lifecycle - Risk & Benefits change
- Not like Building a road!
- Research - Development - Demonstration - Adoption
- Benefits based on facts and assumptions
- $NPV = PV \text{ of discounted benefits} - PV \text{ project costs}$

Recommendation



- Assessing benefits
- Post adoption review

Issues that need further consideration

- Non-financial Benefits - Safety, Operational, Environmental ...
- Environmental benefits/costs (eg use of storage vs OHL)
- Avoided costs (eg smarter asset management)
- Managing risks
- Inclusion of Adoption Costs (which are not fixed)
$$\text{NPV} = \text{PV of benefits} - \text{PV of costs (project + adoption)}$$
- Deminimis benefit assessment

Additional work needed to inform debate and final recommendation for inclusion in the GPG through the ENA R&D WG