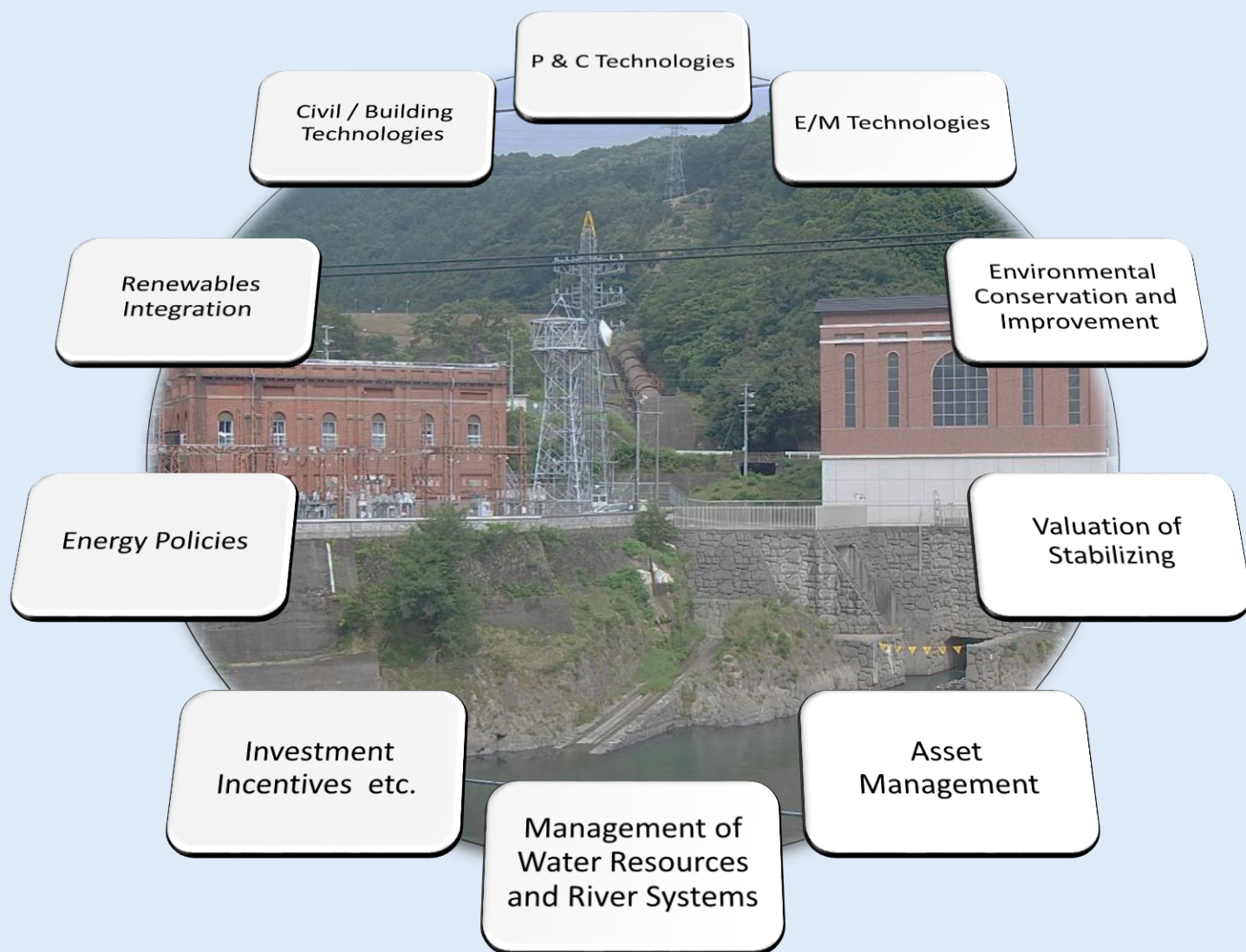




IEA HYDROPOWER

The International Energy Agency Implementing Agreement for Hydropower Technologies and Programmes

IEA Hydro Annex-XI : RENEWAL & UPGRADING of HYDROPOWER



Case History Collection

70 Case Histories from 10 Countries



To access and download the Analysis Report and Case Histories, visit the IEA Hydro website at www.ieahydro.org.

(After March 2016)

Background and Purpose of the Annex-XI

- Many hydropower facilities worldwide are approaching the time for renewal.
- Given the situation, it is necessary to renew / upgrade such facilities in a way that accommodates change of social / natural environment, change of the electricity market and the functions / values expected of hydropower today.
- Case Histories, gathered from around the world, have been systematically analyzed to present processes leading up to renewal / upgrading, as well as economic rationale / environmental feasibility that served as judging criteria.
- The analysis report will provide significant reference material for hydropower operators, E&M manufacturers and various specialized

What were Trigger Causes of Renewal and Upgrading Projects?

- Degradation due to ageing and recurrence of malfunction
- Environmental deterioration
- Needs for higher performance
- Needs for safety improvement
- Needs due to third party factors
- Accidents / Disasters

