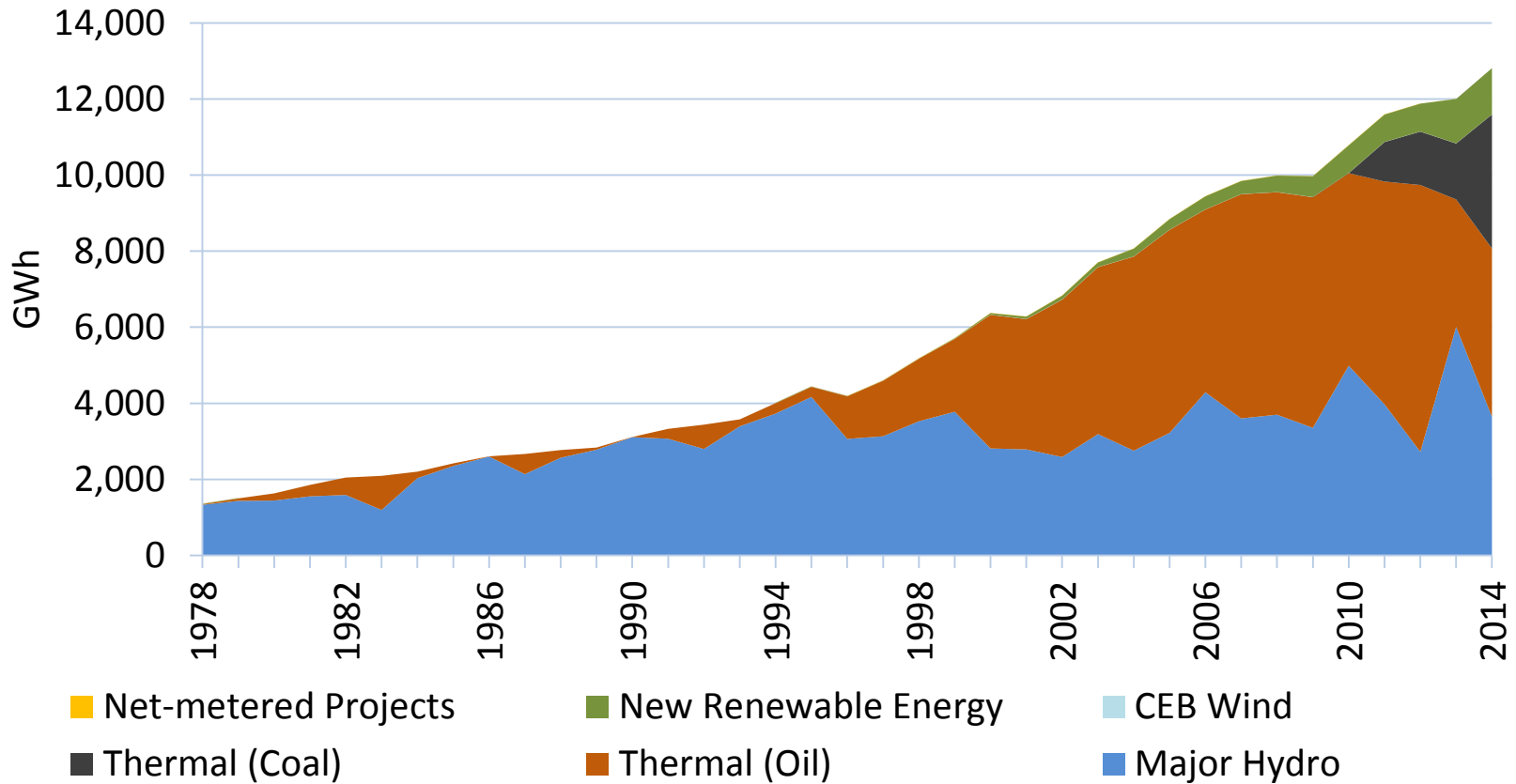


Planning Under Uncertainty: Sri Lanka's Story

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Evolution of Energy Supply Mix



The Way we are planning

- Long Term Generation Expansion Plan (LTGEP) is prepared by utility engineers
 - Demand Forecasting –Multi sector approach
 - Essentially a hard core technical matter
 - Prepared for 20 year period , reviewed by 2 years period, optimising economic options
- Now facing an ever increasing interventions from ‘out side’ stakeholders
 - A 500MW coal plant given up after 5 years of planning
 - Forcing a lot of Renewable Energy to the plan

Issues with planning

- Uncertainties
 - Heavily dependent on Hydro ,short term uncertainties with Hydro logical variation, the difference between total hydro production in very wet and very dry years is approximately 2000 GWh (considering 2020 forecasting)
 - electricity demand growth is becoming decoupled from GDP growth,
 - Exogenous uncertainties-Future of international fossil Fuel prices/markets
- Unforeseen generation options popping up
 - 1,000 MW solar rooftops within ten years (in a system having a 2,300MW peak)
 - Coal replaced by LNG, along with the location
- DSM taken as a major contender
 - An initiative to save around 10% energy demand by 2020
- Delay in implementation of projects identified by previous plans

Some Social Concerns

- Displaced settlements (due to power plant construction)
 - Public much more aware and connected than before
 - Difficult to make them aware
- Finding land and access
 - Compact country, lack of land resources
- Focus on environmental issues
 - Even RE projects are scrutinised very much
 - Bird deaths(wind), Threatened fish (hydro), elephant habitats (solar)

Thank you..!